

POWERED BY  
**LYCOMING**

# ENGINE LOG

## LOGBOOK # 4

# N66018

Engine Manufacturer – Lycoming  
Model – O-320-D2J  
Serial Number – L-10513-39A

The subject aircraft was involved in an incident / accident on 1/28/2025 rendering it a Constructive Total Loss as not repairable within its insured value. For further details refer to insurance claim: 9022983901US.

Signed: ***Underwriters Salvage Company***

Date: **3/20/2025**

AIG Aerospace Adjustment Services Inc  
3500 Lenox Road, Suite 1100

**MAINTENANCE RECORD  
FAR 43.9**

wo: MO\_1921

*AeroMeph*

Engine : page 1 of 1

Aeromech Aircraft Maintenance · 6799 N Glen Harbor Blvd · Glendale, AZ 85307 · 6238779334

**N66018**

**LYCOMING, 0-320 SERIES, S/N: L-10513-39A**

**November 18, 2024**

TACH: 960.6

TTSN: 17260.5

SMOH: 1721.4

1. Drained engine oil and cleaned Challenger oil filler. Serviced engine with 7 qts Phillips 100AW using Cessna maintenance manual and referencing relevant Cessna maintenance practices. Installed P/N 08-16225 - AOA Kit, Installed (7) P/N 08-13850-1 - Phillips 100AW Quart, Installed (8) P/N 08-05411 - Aeroshell Mineral Oil.
2. Removed, cleaned, gapped, tested, and reinstalled spark plugs referencing relevant Cessna maintenance practices. Installed (8) P/N UM674PK - Tempest Spark Plug Gasket.
3. Performed Engine compression test with the following readings, #1: 70/80, #2: 72/80, #3: 70/80, #4: 20/80 refer to item #14 for corrective action.
4. Performed engine magneto timing check using Cessna M/M. No defects noted at this time.
5. Removed defective #4 cylinder p/n: sl32006w-a20p s/n: 326wf2022178 and installed new cylinder p/n: sl32006w-a20p s/n: 326w000014268 referencing Lycoming overhaul manual and ssp-1776-5. Ops check good. Installed P/N 71973 - Lycoming Intake Gasket, Installed (4) P/N 77611 - Lycoming Exhaust Flange Gasket.
6. Removed and replaced #3 leaking intake gasket with new using Lycoming M/M. Installed P/N 71973 - Lycoming Intake Gasket.
7. Adjusted engine idle mixture using Cessna MM.
8. AD24-21-02 Connecting Rod Assemblies is N/A due to ship date.

This engine has been inspected in accordance with a 100 HOUR INSPECTION and was found Airworthy and approved for return to service at this time. AD's checked thru 2024-23. Details of work performed are on file with Aeromech Aircraft Maintenance under work order: MO\_1921.

Alexandre Velasco A&P4813355



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N66018  
TACH: 771.4LYCOMING, 0-320 SERIES, S/N: L-10513-39A  
TTSN: 17071.3 SMOH: 1532.2

July 12, 2024

1. Drained engine oil and cleaned Challenger oil filler. Serviced engine with 7 qts Phillips 100AW using Cessna maintenance manual and referencing relevant Cessna maintenance practices. Installed P/N 08-16225 - AOA Kit. Installed (7) P/N 08-13850-1 - Phillips 100AW Quart.
2. Removed, cleaned, gapped, and tested spark plugs using standard Cessna maintenance practices. Installed (8) P/N M-674 - Champion Spark Plug Gasket 18mm.
3. Performed Engine compression test with the following readings, #1: 74/80, #2: 78/80, #3: 71/80, #4: 70/80 No discrepancies noted at this time.
4. Performed engine magneto timing check using Cessna M/M. No defects noted at this time.
5. Removed and replaced cyl #3 intake gasket with new gasket using Lycoming M/M. Installed P/N 71973 - Lycoming Intake Gasket.
6. Removed and replaced #4 oil return hose with new using Lycoming M/M.
7. Adjusted engine idle as required using Lycoming MM.
8. Removed defective challenger oil filter gasket and replaced with new referencing STC# SE02352CH Installed P/N CP-623 - Oil Filter Quad Seal Gasket.

This engine has been inspected in accordance with a 100 HOUR INSPECTION and was found Airworthy and approved for return to service at this time. AD's checked thru 2024-13. Details of work performed are on file with Aeromech Aircraft Maintenance under work order: MO\_1781.

Colby Hines A&amp;P3649980



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N66018  
TACH: 864.9LYCOMING, 0-320 SERIES, S/N: L-10513-39A  
TTSN: 17164.8 SMOH: 1625.7

September 11, 2024

1. Drained engine oil and cleaned Challenger oil filler. Serviced engine with 7 qts Phillips 100AW using Cessna maintenance manual and referencing relevant Cessna maintenance practices. Installed P/N 08-16225 - AOA Kit, installed (7) P/N 08-13850-1 - Phillips 100AW Quart, Installed P/N CP-623 - Oil Filter Quad Seal Gasket.
2. Removed, cleaned, gapped, tested, and reinstalled spark plugs referencing relevant Cessna maintenance practices. Installed (8) P/N UM674PK - Tempest Spark Plug Gasket.
3. Performed Engine compression test with the following readings, #1: 78/80, #2: 72/80, #3: 70/80, #4: 72/80 No discrepancies noted at this time.
4. Performed engine magneto timing check using Cessna M/M. No defects noted at this time.
5. Removed defective alternator belt and installed with new. Tightened alternator belt appropriately, torqued adjusting nut and safeties using Cessna M/M and standard maintenance practices. Installed P/N S1597-1-37.5 - Alternator Belt.
6. Removed and replaced cyl #3 intake gasket with new gasket using Lycoming M/M. Installed P/N 71973 - Lycoming Intake Gasket.

This engine has been inspected in accordance with a 100 HOUR INSPECTION and was found Airworthy and approved for return to service at this time. AD's checked thru 2024-18. Details of work performed are on file with Aeromech Aircraft Maintenance under work order: MO\_1857.

Colby Hines A&amp;P3649980



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# MAINTENANCE RECORD FAR 43.9

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----------------------|
| wo: MO_1615                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <small>AeroMeph</small>                                                            | Engine · page 1 of 1  |
| <small>Aeromech · 6799 N Glen Harbor Blvd · Glendale, AZ 85307 · 6238779334</small>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                    |                       |
| <b>N66018</b><br>TACH: 582.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>LYCOMING, 0-320 SERIES, S/N: L-10513-39A</b><br>TTSN: 16882.5      SMOH: 1343.4 | <b>March 20, 2024</b> |
| <ol style="list-style-type: none"> <li>1. Drained engine oil and cleaned Challenger Oil Filter, serviced engine with 7 qts Phillips 100AW oil using standard maintenance practices. Installed P/N 08-16225 - AOA Kit, Installed (7) P/N 08-13850-1 - Phillips 100AW Quart.</li> <li>2. Removed, cleaned, inspected, gapped, tested, found all spark plugs defective, replaced all defective spark plug with new and reinstalled spark plugs using standard maintenance practices. Installed (8) P/N REM38E - Spark Plug.</li> <li>3. Performed Engine compression test with the following readings, #1: 76/80, #2: 79/80, #3: 79/80, #4: 79/80 using standard maintenance practices. No further discrepancies noted at this time.</li> <li>4. Verified magneto to engine timing, no defects noted at this time using standard maintenance practices.</li> <li>5. Resecured oil return lines and removed and replaced cyl #2 oil return line hose using standard maintenance practices.</li> <li>6. Stopped drilled crack using standard maintenance practices.</li> </ol> |                                                                                    |                       |
| <p>This engine has been inspected in accordance with a 100 HOUR INSPECTION and was found Airworthy and approved for return to service at this time. AD's checked thru 2024-05. Details of work performed are on file with Aeromech under work order: MO_1615.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                    |                       |
| <div style="display: flex; justify-content: space-between; align-items: center;"> <span>Colby Hines A&amp;P3649980</span> </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                    |                       |

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| wo: MO_1697                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <small>AeroMeph</small>                                                            | Engine · page 1 of 1 |
| <small>Aeromech · 6799 N Glen Harbor Blvd · Glendale, AZ 85307 · 6238779334</small>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                    |                      |
| <b>N66018</b><br>TACH: 680.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>LYCOMING, 0-320 SERIES, S/N: L-10513-39A</b><br>TTSN: 16979.9      SMOH: 1440.8 | <b>May 23, 2024</b>  |
| <ol style="list-style-type: none"> <li>1. Drained engine oil and cleaned Challenger Oil Filter, serviced engine with 7 qts Phillips 100AW oil using standard maintenance practices. Installed P/N 08-16225 - AOA Kit, Installed (7) P/N 08-13850-1 - Phillips 100AW Quart.</li> <li>2. Removed, cleaned, gapped, and tested spark plugs using standard maintenance practices. Installed (8) P/N M-674 - Champion Spark Plug Gasket 18mm.</li> <li>3. Performed Engine compression test with the following readings, #1: 78/80, #2: 78/80, #3: 76/80, #4: 70/80 using standard maintenance practices. No further discrepancies noted at this time.</li> <li>4. Adjusted R/H magneto to engine timing using Lycoming m/m and standard maintenance practices.</li> </ol> |                                                                                    |                      |
| <p>This engine has been inspected in accordance with a 100 HOUR INSPECTION and was found Airworthy and approved for return to service at this time. AD's checked thru 2024-10. Details of work performed are on file with Aeromech under work order: MO_1697.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                    |                      |
| <div style="display: flex; justify-content: space-between; align-items: center;"> <span>Alexandre Velasco A&amp;P4813355</span> </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                    |                      |

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wo: MO\_1410

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**N66018****LYCOMING, 0-320 SERIES, S/N: L-10513-39A****September 07, 2023**

TACH: 301.6

TTSN: 16019.0

SMOH: 479.9

1. Drained engine oil and cleaned Challenger Oil Filter and replaced old gasket with new, serviced engine with 7 qts Phillips 100AW oil using standard maintenance practices. Installed P/N 08-16225 - AOA Kit, Installed (7) P/N 08-13850-1 - Phillips 100AW Quart, Installed P/N CP-623 - Oil Filter Quad Seal Gasket.
2. Removed, cleaned, inspected, gapped, tested, and reinstalled spark plugs using standard maintenance practices. Installed (8) P/N M-674 - Champion Spark Plug Gasket.
3. Performed Engine compression test with the following readings, #1: 78/80, #2: 64/80, #3: 76/80, #4: 79/80 using standard maintenance practices. No further discrepancies noted at this time.
4. Verified magneto to engine timing, no defects noted at this time using standard maintenance practices.
5. Adjusted engine idle using Cessna MM no defects noted at this time.
6. Adjusted engine idle mixture using Cessna MM no defects noted at this time.

This engine has been inspected in accordance with a 100 HOUR INSPECTION and was found Airworthy and approved for return to service at this time. AD's checked thru 2023-18. Details of work performed are on file with Aeromech under work order: MO\_1410.

Colby Hines A&amp;P3649980



wo: MO\_1475

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Aeromech - 6799 N Glen Harbor Blvd - Glendale, AZ 85307 - 6238779334

**N66018****LYCOMING, 0-320 SERIES, S/N: L-10513-39A****November 08, 2023**

TACH: 397.3

TTSN: 16114.7

SMOH: 575.6

1. Drained engine oil and cleaned Challenger Oil Filter, serviced engine with 7 qts Phillips 100AW oil using standard maintenance practices. Installed P/N 08-16225 - AOA Kit, Installed (7) P/N 08-13850-1 - Phillips 100AW Quart.
2. Removed, cleaned, inspected, gapped, tested, and reinstalled spark plugs using standard maintenance practices. Installed (8) P/N UM674PK - Tempest Spark Plug Gasket.
3. Performed Engine compression test with the following readings, #1: 76/80, #2: 72/80, #3: 76/80, #4: 76/80 using standard maintenance practices. No further discrepancies noted at this time.
4. Verified magneto to engine timing, no defects noted at this time using standard maintenance practices.

This engine has been inspected in accordance with a 100 HOUR INSPECTION and was found Airworthy and approved for return to service at this time. AD's checked thru 2023-23. Details of work performed are on file with Aeromech under work order: MO\_1475.

Sam Robinson A&amp;P3577476



wo: MO\_1545

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Aeromech - 6799 N Glen Harbor Blvd - Glendale, AZ 85307 - 6238779334

**N66018****LYCOMING, 0-320 SERIES, S/N: L-10513-39A****January 24, 2024**

TACH: 487.2

TTSN: 16204.6

SMOH: 665.5

1. Drained engine oil and cleaned Challenger Oil Filter, serviced engine with 7 qts Phillips 100AW oil using standard maintenance practices. Installed P/N 08-16225 - AOA Kit, Installed (7) P/N 08-13850-1 - Phillips 100AW Quart, Installed P/N CP-623 - Oil Filter Quad Seal Gasket.
2. Removed, cleaned, inspected, gapped, tested, and reinstalled spark plugs using standard maintenance practices. Installed (8) P/N UM674PK - Tempest Spark Plug Gasket.
3. Performed Engine compression test with the following readings, #1: 78/80, #2: 79/80, #3: 78/80, #4: 79/80 using standard maintenance practices. No further discrepancies noted at this time.
4. Verified magneto to engine timing, no defects noted at this time using standard maintenance practices.
5. Removed, cleaned, inspected and re-installed fuel primer nozzles. All work performed IAW current Lycoming M/M and standard maintenance practices.
6. Cleaned engine with mineral spirits. All work performed IAW Standard maintenance practices.
7. Replaced #4 intake gasket. All work performed IAW current Lycoming M/M and standard maintenance practices. Installed P/N 71973 - Lycoming Intake Gasket.
8. Re-secured clamps on #2 intake coupler. All work performed IAW standard maintenance practices.
9. Re-secured oil return hose clamps. All work performed IAW standard maintenance practices.
10. Adjusted engine idle as required using Lycoming MM and standard maintenance practices.
11. Adjusted engine idle mixture as required using Lycoming MM and standard maintenance practices.

This engine has been inspected in accordance with a 100 HOUR INSPECTION and was found Airworthy and approved for return to service at this time. AD's checked thru 2024-01. Details of work performed are on file with Aeromech under work order: MO\_1545.

Mark Swartwood A&amp;P3567883IA



# MAINTENANCE RECORD

wo: MO\_1300

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Aeromech - 6799 N Glen Harbor Blvd - Glendale, AZ 85307 - 6238779334

Date

**N66018**

**LYCOMING, 0-320 SERIES, S/N: L-10513-39A**

**May 09, 2023**

TACH: 112.6

TTSN: 15830.0

SMOH: 290.9

1. Drained engine oil, cleaned challenger oil filter, serviced engine with 8 qts. Phillips 100AW using standard maintenance practices. Installed P/N 08-16225 - AOA Kit, Installed (7) P/N 08-13850-1 - Phillips 100AW Quart.
2. Removed, cleaned, inspected, gapped, tested, and reinstalled spark plugs using standard maintenance practices. Installed (8) P/N M-674 - Champion Spark Plug Gasket.
3. Performed Engine compression test with the following readings, #1:78/80, #2:76/80, #3:79/80, #4:78/80 using standard maintenance practice.
4. Verified mag to engine timing after overhaul using standard maintenance practices.
5. Removed and replaced starter cable boot with new using standard maintenance practices. Installed P/N MS25171-3S - Nipple.
6. Removed carb airbox, disassembled flapper valve. Removed and replaced shaft bearings, installed new flapper valve shaft, reassembled carb airbox, reinstalled airbox using Cessna M/M and standard maintenance practices. Installed (2) P/N MC0750113-1 - Bearing House Cessna Airbox, Installed P/N 0552169-6AWL - Flapper Assembly Carb Air Box, Installed P/N MC0550180-16 - Carb Heat Shaft.

This engine has been inspected in accordance with a 100 HOUR INSPECTION and was found Airworthy and approved for return to service at this time. AD's checked thru Details of work performed are on file with Aeromech under work order: MO\_1300.

Colby Hines A&P3649980



wo: MO\_1379

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Engine - page 1 of 1

Aeromech - 6799 N Glen Harbor Blvd - Glendale, AZ 85307 - 6238779334

**N66018**

**LYCOMING, 0-320 SERIES, S/N: L-10513-39A**

**July 18, 2023**

TACH: 211.4

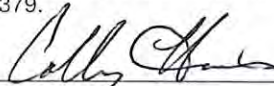
TTSN: 15928.8

SMOH: 389.7

1. Drained engine oil and cleaned Challenger Oil Filter, serviced engine with 7 qts Phillips 100AW oil using standard maintenance practices. Installed P/N 08-16225 - AOA Kit, Installed (7) P/N 08-13850-1 - Phillips 100AW Quart.
2. Removed, cleaned, inspected, gapped, tested and replaced all spark plugs using standard maintenance practices. Installed (8) P/N M-674 - Champion Spark Plug Gasket.
3. Performed Engine compression test with the following readings, #1: 78/80, #2: 70/80, #3: 79/80, #4: 79/80 using standard maintenance practices. No further discrepancies noted at this time.
4. Verified magneto to engine timing, no defects noted at this time using standard maintenance practices.
5. Adjusted engine idle to obtain 750 RPM @ idle using Lycoming M/M and standard maintenance practices.
6. Removed and replaced #2 intake gasket with new gasket using Lycoming M/M and standard maintenance practices. Installed P/N 71973 - Lycoming Intake Gasket.

This engine has been inspected in accordance with a 100 HOUR INSPECTION and was found Airworthy and approved for return to service at this time. AD's checked thru 2023-16. Details of work performed are on file with Aeromech under work order: MO\_1379.

Colby Hines A&P3649980



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# MAINTENANCE RECORD FAR 43.9

DA

wo: MO\_1211

AeroMech

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**N66018**

**LYCOMING, 0-320 SERIES, S/N: L-10513-39A**

**February 03, 2023**

TACH: 971.3

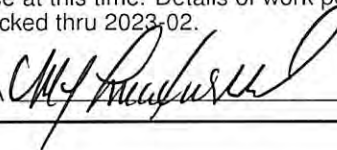
TTSN: 15684.7

SMOH: 145.6

1. Performed Engine compression test with the following readings, #1: 78/80, #2: 78/80, #3: 76/80, #4: 74/80 using standard maintenance practice.
2. Drained engine oil, cleaned challenger oil filter, serviced engine with 8 qts. Phillips 100AW using standard maintenance practices. Installed P/N 08-16225 - AOA Kit, Installed (8) P/N 08-13850-1 - Phillips 100AW Quart.
3. Verified mag to engine timing after overhaul using standard maintenance practices.
4. Removed, cleaned, inspected, gapped, tested, and reinstalled spark plugs using standard maintenance practices.
5. Removed engine oil finger screen, inspected, no debris found, reinstalled finger screen with new gasket using Lycoming M/M and standard maintenance practices.

This engine has been inspected in accordance with a 100 HOUR INSPECTION and was found Airworthy and approved for return to service at this time. Details of work performed are on file with Aeromech under work order: MO\_1211. AD's checked thru 2023-02.

Mark Swartwood A&P3567883IA



wo: MO\_1253

AeroMech

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**N66018**

**LYCOMING, 0-320 SERIES, S/N: L-10513-39A**

**March 17, 2023**

TACH: 16.3

TTSN: 15733.7

SMOH: 194.6

1. Drained engine oil, cleaned challenger oil filter, serviced engine with 8 qts. Phillips 100AW using standard maintenance practices. Installed P/N 08-16225 - AOA Kit, Installed (8) P/N 08-13850-1 - Phillips 100AW Quart.
2. Removed, cleaned, inspected, gapped, tested, and reinstalled spark plugs using standard maintenance practices.
3. Performed Engine compression test with the following readings, #1: 79/80, #2: 76/80, #3: 78/80, #4: 79/80 using standard maintenance practice.
4. Verified mag to engine timing after overhaul using standard maintenance practices.
5. Tightened AN bulkhead fitting for oil pressure on engine baffling using standard maintenance practices.
6. Removed #4 intake tube, cleaned off old gasket, installed new gasket with intake tube, torqued to spec using Lycoming M/M and standard maintenance practices. Installed P/N 71973 - Lycoming Intake Gasket.
7. Tightened oil return hose clamps using standard maintenance practices.

This engine has been inspected in accordance with a 100 HOUR INSPECTION and was found Airworthy and approved for return to service at this time. Details of work performed are on file with Aeromech under work order: MO\_1253. AD's checked thru 2023-04.

Colby Hines A&P3649980



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# MAINTENANCE RECORD

## FAR 43.9

wo: MO\_1053

AeroMeph

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**N66018**

TACH: 825.7

**LYCOMING, 0-320 SERIES, S/N: L-10513-39A**

TTSN: 15539.1

SMOH: 0.0

**September 30, 2022**

1. Performed Engine compression test with the following readings, #1:70/80, #2:72/80, #3:48/80, #4:72/80 using standard maintenance practices.
2. Drained engine break in oil, serviced engine with 9 qts. Aeroshell 100 mineral using standard maintenance practices. Installed (9) P/N 08-05411 - Aeroshell Mineral Oil.
3. Verified mag to engine timing after overhaul using standard maintenance practices.
4. Removed, cleaned, inspected, gapped, tested, and reinstalled spark plugs using standard maintenance practices.
5. Removed engine for overhaul on 6/04/22. Installed overhauled engine with new engine mounts, bolts and nuts, new vacuum pump, overhauled alternator, new hose kit using Cessna M/M and standard maintenance practices. Installed (4) P/N 94011-20 - Barry Mount, Installed (4) P/N AN7-43A - Bolt Undrilled, Installed P/N DOFF10300B - Alternator (OVERHAULED) S/N: H-L011895, Installed P/N 215CC - Dry Air Pump (OVERHAULED) S/N: 193660, Installed P/N MC0750142-1 - Gasket Airbox, Installed P/N S1450-23H16-095 - Washer, Installed (2 ft) P/N 6000-12 - 3/4" Oil & Coolant Hose, Installed (2) P/N 8507-21298 - Oil & Coolant Hose 5/8", Installed P/N 05K26024 - 3 Point Primer System, Installed P/N 124F001-3CR0170 - Hose, Installed P/N 124F001-8CR0306 - Hose, Installed P/N 124F001-8CR0272 - Hose, Installed P/N 124F001-8CR0184 - Hose, Installed P/N MCS2323-5 - Wire Clamp, Installed P/N MS25171-1S - Nipple, Installed (8) P/N SA21247 - Exhaust Nut.
6. Repaired baffling that could be repaired and replaced baffling that was "BER", replaced needed baffle seal using Cessna M/M and standard maintenance practices. Installed P/N AF0555250-9 - R/H Front Baffle Assembly, Installed P/N AF0555259-14 - L/H Front Baffle Assembly, Installed (2) P/N 05-00810 - Silicone 3/32" x 3" x 9" Black.
7. Oil cooler removed for overhaul, installed new oil cooler and fittings using Cessna m/m and standard maintenance practices. Installed P/N MS20822-8 - Elbow, Installed P/N 0556018-2 - Cap, Installed P/N MS20825-8 - Tee, Installed P/N 8406R - Pacific Oil Cooler Overhauled (OVERHAULED) S/N: 10091.

This engine has been inspected in accordance with a 100 HOUR INSPECTION and was found Airworthy and approved for return to service at this time. Details of work performed are on file with Aeromech under work order: MO\_1053. AD's checked thru 2022-18.

Colby Hines A&P3649980



wo: MO\_1189

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**N66018**

TACH: 919.5

**LYCOMING, 0-320 SERIES, S/N: L-10513-39A**

TTSN: 15632.9

SMOH: 93.8

**December 20, 2022**

1. Drained engine break in oil, serviced engine with 9 qts. Aeroshell 100 mineral using standard maintenance practices. Installed (9) P/N 08-05411 - Aeroshell Mineral Oil.
2. Removed, cleaned, inspected, gapped, tested, and reinstalled spark plugs using standard maintenance practices.
3. Performed Engine compression test with the following readings, #1:74/80, #2:76/80, #3:76/80, #4:76/80 using standard maintenance practices.
4. Verified mag to engine timing after overhaul using standard maintenance practices.
5. Tightened oil return hoses using standard maintenance practices.

This engine has been inspected in accordance with a 100 HOUR INSPECTION and was found Airworthy and approved for return to service at this time. Details of work performed are on file with Aeromech under work order: MO\_1189. AD's checked thru 2022-24.

Logan Valencia A&P4672360



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# MAINTENANCE RECORD

## FAR 43.9

wo: MO\_1017

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Aeromech - 6799 N Glen Harbor Blvd - Glendale, AZ 85307 - 6238779334

**N66018**

TACH: 733.2

**LYCOMING, O-320 SERIES, S/N: L-10513-39A**

TTSN: 15446.6

SMOH: 2438.0

**April 12, 2022**

1. Performed Engine compression test with the following readings, #1:72/80, #2:68/80, #3:66/80, #4:70/80 using standard maintenance practices.
2. Drained engine oil replaced oil filter with new, serviced engine with 8 qts. Phillips 100AW using standard maintenance practices. Performed inspection of old filter element with no discrepancies noted at this time. Installed P/N CH48111-1 - A2, Installed P/N 08-16225 - AOA Kit, Installed (8) P/N 08-13850-1 - Phillips 100AW Quart.
3. Verified mag to engine timing using standard maintenance practices.
4. Removed, cleaned, inspected, gapped, tested, and reinstalled spark plugs using standard maintenance practices. Installed (8) P/N M-674 - Champion Spark Plug Gasket.
5. Removed and replaced #2 intake gasket with new gasket using Lycoming M/M Installed P/N 71973 - Lycoming Intake Gasket.

This engine has been inspected in accordance with a 100 HOUR INSPECTION and was found Airworthy and approved for return to service at this time. Details of work performed are on file with Aeromech under work order: MO\_1017.

Ryan Boyd A&P3813201

06/01/22

**N66018**

ACTT: 19336.5

Eng. TSN: 15538.8

Tach: 825.4

Eng. TSO: 2530.2

**ENGINE LOG**

Model: O-320-D2J

S/N: L-10513-39A

Engine removed for overhaul

M.J. Swartwood

AP3567883

09/13/2022

MODEL: O-320-D2J

S/N: L-10513-39A

TACH READING: TTE: 15538.8

TSMOH: 0.0

AIRCRAFT ENGINE SPECIALISTS, LLC

2330 SOUTH AIRPORT BOULEVARD, SUITE #5

CHANDLER, ARIZONA 85286

(480) 516-0390

CRS # ZF7R728Y

This engine has been overhauled in accordance with the Lycoming Overhaul Manual 60294-7-14 and other FAA-approved procedures. Applicable FAA Airworthiness Directives and manufacture service bulletins have been complied with, see AD sheet. All parts have been inspected and accessories are either new or newly overhauled. NDT parts wo N2227-22-07. Crankcase repaired by Divco wo 131554. Connecting rods repaired AEA wo 200744. Crankshaft pn 76948 sn 81303 repaired by AEA wo 200743. Lycoming cylinders overhauled AES wo C7199-22-07. Carburetor 10-5217 sn: MS025M01, overhauled by Mavel-Schebler, wo 025M. Right magneto 4371, sn 16070938 overhauled wo M6351-22-08, left magneto 4371, sn 13040168, overhauled wo M6359-22-08. Starter 149NL/EC sn: H-W061083, new. Engine has been tested and was found to be in an airworthy condition. Further details of this engine overhaul may be found at this facility under work order E5898-22-06.

*James Wheeler*

James Wheeler

**Parts Used on WO# E5898-22-06**

|   |              |                      |   |               |                       |    |               |               |
|---|--------------|----------------------|---|---------------|-----------------------|----|---------------|---------------|
| 1 | 149-NL/EC    | STARTER              | 1 | SL-STD-1211   | PLUG                  | 4  | SL61681A      | GUIDE, INTAKE |
| 1 | 17F19357 U/S | ROCKER               | 1 | SL-STD-2213   | SCREW                 | 4  | SL73938       | VALVE         |
| 1 | 72220        | GASKET               | 1 | STD-2168      | NUT                   | 4  | SL75089A      | PISTON        |
| 1 | 75761        | TUBE                 | 1 | STD-551       | PLUG                  | 4  | STD-1901      | SCREW, DRIVE  |
| 1 | 75767        | TUBE                 | 2 | 4371 OHC      | MAGNETO OHC           | 4  | STD-2180      | HOSE          |
| 1 | 77808        | VALVE ASSY           | 2 | AEL72057P010  | SEAT                  | 6  | SL15F19957-13 | PUSHROD (320) |
| 1 | AA48110-2    | FILTER               | 2 | APS-68761     | TUBE ASSY             | 8  | 200-06H       | CLAMP         |
| 1 | AN816-8      | NIPPLE               | 2 | SL13884A M06  | BEARING               | 8  | 200-28H       | CLAMP         |
| 1 | APS-68759    | TUBE ASSY            | 2 | SL31C-15      | STUD                  | 8  | MS13997-3     | KEY           |
| 1 | APS-68760    | TUBE ASSY            | 2 | SL72569       | BAFFLE, 320           | 8  | REM38E        | SPARK PLUG    |
| 1 | KA14002Y     | HARNESS              | 2 | STD-2013      | SEAL                  | 8  | SL12186       | NUT           |
| 1 | LW-18667     | PIN                  | 3 | SL31H-0.88    | BOLT                  | 8  | SL12892       | THRUST BUTTON |
| 1 | MS20823-8    | ELBOW ASSY           | 4 | 06B26669      | GASKET SET            | 8  | SL15B21319    | SOCKET        |
| 1 | RG-72059     | REAL DIPSTICK GASKET | 4 | 69603         | HOSE ASSY             | 8  | SL31C-12      | STUD          |
| 1 | SL1028-B     | BALL-CHROME ALLOY    | 4 | AEL13790      | ROCKER SHAFT          | 8  | SL60009       | VALVE KEY     |
| 1 | SL18840KIT2  | CAMSHAFT KIT 2       | 4 | AEL74230HCP05 | GUIDE                 | 8  | SL61662A M06  | BEARING       |
| 1 | SL53E19600   | VERNATHERM VALVE     | 4 | MS27215-2     | PLUG, DEHYD           | 8  | SL68987       | TUBE, SHROUD  |
| 1 | SL61084      | SPRING (360)         | 4 | SL13444-1     | PISTON PIN WITH PLUGS | 8  | SL74637       | BUSHING       |
| 1 | SL69371-1    | GASKET SET           | 4 | SL16711A M06  | BEARING               | 8  | SL78027       | ROD BOLT      |
| 1 | SL72970      | GEAR ASSEMBLY (360)  | 4 | SL19001A      | VALVE                 | 10 | SL66610       | BUSHING       |
| 1 | SL78531 U/S  | HOUSING              | 4 | SL3601-SC     | RING SET              | 10 | STD-1410      | NUT           |

MAINTENANCE RECORD  
FAR 43.9

8/18/21

**N66018**

ACTT: 19021.6

Eng. TSN: 15223.9

Tach: 510.5

Eng. TSO: 2215.3

**ENGINE LOG**

Model: O-320-D2J

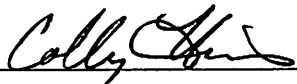
S/N: L-10513-39A

Performed inspection in accordance with AFTC 100hr / Annual Inspection checklist, which encompasses FAR part 43 appendix "D". Differential compression check: 1-72/80, 2-72/80, 3-65/80, 4-70/80. Drained engine oil, oil sample taken, installed new oil filter Champion CH48111-1 and serviced with 8qts Phillips 100AW oil, removed, cleaned, gapped, tested and reinstalled spark plugs, tightened oil filler tube, all ops and leak check are good at this time.

AD's current through 2021-16

This ENGINE has been inspected in accordance with a **100HR INSPECTION** and was determined to be in airworthy condition and is approved for return to service at this time. Pertinent details of work performed; job number 66018081821, will be in this aircraft's maintenance continuation file.

Colby Hines

 AP3649980

11/15/21

**N66018**

ACTT: 19116.6

Eng. TSN: 15318.9

Tach: 605.5

Eng. TSO: 2310.3

**ENGINE LOG**

Model: O-320-D2J

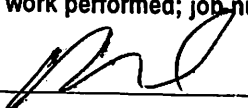
S/N: L-10513-39A

Performed inspection in accordance with AFTC 100hr / Annual Inspection checklist, which encompasses FAR part 43 appendix "D". Differential compression check: 1-68/80, 2-70/80, 3-62/80, 4-76/80. Drained engine oil, oil sample taken, installed new oil filter Champion CH48111-1 and serviced with 8qts Phillips 100AW oil, removed, cleaned, gapped, tested and reinstalled spark plugs, replaced oil dipstick o-ring, installed new intake gaskets on #1& #3 cylinders, all ops and leak check are good at this time.

AD's current through 2021-22

This ENGINE has been inspected in accordance with a **100HR INSPECTION** and was determined to be in airworthy condition and is approved for return to service at this time. Pertinent details of work performed; job number 66018111021, will be in this aircraft's maintenance continuation file.

Ryan Boyd

 AP3813201

1/24/22

**N66018**

ACTT: 19160.8

Eng. TT: 15363.1

Tach: 649.7

Eng. TSO: 2354.5

**ENGINE LOG**

Model: O-320-D2J

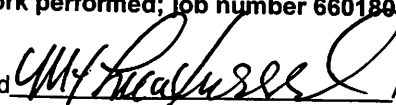
S/N: L-10513-39A

Performed inspection in accordance with Arizona Flight Training Center Annual/ 100-hour Inspection checklist, which also encompasses FAR part 43 appendix "D". Differential compression check: 1-72/80, 2-76/80, 3-62/80, 4-65/80. Drained engine oil, oil sample taken, installed new oil filter Champion CH48111-1 and serviced with 8qts Phillips 100AW oil, removed, cleaned, gapped, tested and reinstalled spark plugs, performed engine to magneto timing, tightened all oil return hoses adjusted engine idle and mixture, tighten alt belt, all ops and leak check are good at this time.

AD's current through 2022-02.

This engine has been inspected in accordance with a **100 HOUR INSPECTION** and was found Airworthy and approved for return to service at this time. Pertinent details of work performed; job number 66018011722, will be in this aircraft's maintenance continuation file

M.J. Swartwood

 AP3567883IA

01/08/21

N66018

ACTT: 18748.5  
Tach: 237.4Eng. TT: 14950.8  
Eng. TSO: 1942.2

## ENGINE LOG

Model: O-320-D2J  
S/N: L-10513-39A

Performed inspection in accordance with Arizona Flight Training Center Annual/ 100-hour Inspection checklist, which also encompasses FAR part 43 appendix "D". Differential compression check: 1-78/80, 2-73/80, 3-72/80, 4-73/80. Drained engine oil, oil sample taken, installed new oil filter Champion CH48111-1 and serviced with 8qts Phillips 100AW oil, removed, cleaned, gapped, tested and reinstalled spark plugs, performed engine to magneto timing, repaired #2-cylinder baffle, tightened all oil return hoses, replaced #4 exhaust gasket, installed new alternator belt, installed new front crankshaft seal, secured oil pressure line to engine, all ops and leak check are good at this time.

AD's current through 2020-26

This engine has been inspected in accordance with a 100 HOUR INSPECTION and was found Airworthy and approved for return to service at this time. Pertinent details of work performed; job number 66018113020, will be in this aircraft's maintenance continuation file

M.J. Swartwood

AP35678831A

03/16/21

N66018

ACTT: 18839.8  
Tach: 328.7Eng. TSN: 15042.1  
Eng. TSO: 2033.5

## ENGINE LOG

Model: O-320-D2J  
S/N: L-10513-39A

Performed inspection in accordance with AFTC 100hr / Annual Inspection checklist, which encompasses FAR part 43 appendix "D". Differential compression check: 1-78/80, 2-71/80, 3-71/80, 4-77/80. Drained engine oil, oil sample taken, installed new oil filter Champion CH48111-1 and serviced with 8qts Phillips 100AW oil, removed, cleaned, gapped, tested and reinstalled spark plugs, performed engine to magneto timing. All ops and leak check are good at this time.

AD's current through 2021-04

This AIRCRAFT has been inspected in accordance with a 100HR INSPECTION and was determined to be in airworthy condition and is approved for return to service at this time. Pertinent details of work performed; job number 66018031521, will be in this aircraft's maintenance continuation file.

Raymond M. Moreno

AP3754794

05/24/21

N66018

ACTT: 18936.2  
Tach: 425.1Eng. TSN: 15138.5  
Eng. TSO: 2129.9

## ENGINE LOG

Model: O-320-D2J  
S/N: L-10513-39A

Performed inspection in accordance with AFTC 100hr / Annual Inspection checklist, which encompasses FAR part 43 appendix "D". Differential compression check: 1-72/80, 2-70/80, 3-70/80, 4-72/80. Drained engine oil, oil sample taken, installed new oil filter Champion CH48111-1 and serviced with 8qts Phillips 100AW oil, removed, cleaned, gapped, tested and reinstalled spark plugs, performed engine to magneto timing, repaired left mag "P" lead, all ops and leak check are good at this time.

AD's current through 2021-10

This AIRCRAFT has been inspected in accordance with a 100HR INSPECTION and was determined to be in airworthy condition and is approved for return to service at this time. Pertinent details of work performed; job number 66018052421, will be in this aircraft's maintenance continuation file.

Raymond M. Moreno

AP3754794

01/08/21

N66018

ACTT: 18748.5

Eng. TT: 14950.8

Tach: 237.4

Eng. TSO: 1942.2

## ENGINE LOG

Model: O-320-D2J

S/N: L-10513-39A

Performed inspection in accordance with Arizona Flight Training Center Annual/ 100-hour Inspection checklist, which also encompasses FAR part 43 appendix "D". Differential compression check: 1-78/80, 2-73/80, 3-72/80, 4-73/80. Drained engine oil, oil sample taken, installed new oil filter Champion CH48111-1 and serviced with 8qts Phillips 100AW oil, removed, cleaned, gapped, tested and reinstalled spark plugs, performed engine to magneto timing, repaired #2-cylinder baffle, tightened all oil return hoses, replaced #4 exhaust gasket, installed new alternator belt, installed new front crankshaft seal, secured oil pressure line to engine, all ops and leak check are good at this time.

AD's current through 2020-26

This engine has been inspected in accordance with a **100 HOUR INSPECTION** and was found Airworthy and approved for return to service at this time. Pertinent details of work performed; job number 66018113020, will be in this aircraft's maintenance continuation file

M.J. Swartwood

AP3567883IA

03/16/21

N66018

ACTT: 18839.8

Eng. TSN: 15042.1

Tach: 328.7

Eng. TSO: 2033.5

## ENGINE LOG

Model: O-320-D2J

S/N: L-10513-39A

Performed inspection in accordance with AFTC 100hr / Annual Inspection checklist, which encompasses FAR part 43 appendix "D". Differential compression check: 1-78/80, 2-71/80, 3-71/80, 4-77/80. Drained engine oil, oil sample taken, installed new oil filter Champion CH48111-1 and serviced with 8qts Phillips 100AW oil, removed, cleaned, gapped, tested and reinstalled spark plugs, performed engine to magneto timing. All ops and leak check are good at this time.

AD's current through 2021-04

This AIRCRAFT has been inspected in accordance with a 100HR INSPECTION and was determined to be in airworthy condition and is approved for return to service at this time. Pertinent details of work performed; job number 66018031521, will be in this aircraft's maintenance continuation file.

Raymond M. Moreno

AP3754794

05/24/21

N66018

ACTT: 18936.2

Eng. TSN: 15138.5

Tach: 425.1

Eng. TSO: 2129.9

## ENGINE LOG

Model: O-320-D2J

S/N: L-10513-39A

Performed inspection in accordance with AFTC 100hr / Annual Inspection checklist, which encompasses FAR part 43 appendix "D". Differential compression check: 1-72/80, 2-70/80, 3-70/80, 4-72/80. Drained engine oil, oil sample taken, installed new oil filter Champion CH48111-1 and serviced with 8qts Phillips 100AW oil, removed, cleaned, gapped, tested and reinstalled spark plugs, performed engine to magneto timing, repaired left mag "P" lead, all ops and leak check are good at this time.

AD's current through 2021-10

This AIRCRAFT has been inspected in accordance with a 100HR INSPECTION and was determined to be in airworthy condition and is approved for return to service at this time. Pertinent details of work performed; job number 66018052421, will be in this aircraft's maintenance continuation file.

Raymond M. Moreno

AP3754794

## SUPPLEMENTAL MAINTENANCE LOGBOOK-SECTION:

Page:

07/13/2020 N66018 Tach: 5082.9 Eng TT: 14666.7 Prop TT: 2937.1  
 ACTT: 18464.4 Eng TSO: 1658.1 Prop TSO: 1658.1

## ENGINE LOG

Model: O-320-D2J  
 S/N: L-10513-39A

Perform inspection in accordance with Arizona Flight Training Center 100-hour Inspection checklist, which also encompasses FAR part 43 appendix D.

Drained engine oil and replaced oil filter wit new CH48111-1 oil filter, service w/ 8wts. Phillips 100 AW, cleaned, gapped and tested spark plugs, performed engine compression check #1:75/80, #2: 73/80, #3:74/80, #4:74/80, Check mag to engine timing. Install new tach cable. All the ops and leak check are good at this time.

AD's current through 2020-14

This AIRCRAFT has been inspected in accordance with 100HR inspection and was determined to be in airworthy condition and is approved for return to service at this time. Pertinent details of work performed details of work performed: MCN 66018071320, will be in this aircrafts maintenance continuation file.

Keneth D. Babak *Keneth D. Babak* AP1756481

09/01/20

N66018

ACTT: 18658.2  
 Tach: 47.1

Eng. TSN: 14760.5  
 Eng. TSO: 1751.9

## ENGINE LOG

Model: O-320-D2J  
 S/N: L-10513-39A

Performed inspection in accordance with AFTC 100hr / Annual inspection checklist, which encompasses FAR part 43 appendix "D".

Differential compression check: 1-78/80, 2-70/80, 3-76/80, 4-75/80. Drained engine oil, oil sample taken, installed new oil filter Champion CH48111-1 and serviced with 8qts Phillips 100AW oil, removed, cleaned, gapped, tested and reinstalled spark plugs, performed engine to magneto timing, applied sealant to carb air box. All ops and leak check are good at this time.

AD's current through 2020-16

This AIRCRAFT has been inspected in accordance with a 100HR INSPECTION and was determined to be in airworthy condition and is approved for return to service at this time. Pertinent details of work performed; job number 5371K083120, will be in this aircraft's maintenance continuation file.

Colby Hines *Colby Hines* AP3649980

10/16/20

N66018

ACTT: 18649.7  
 Tach: 138.6

Eng. TSN: 14852.0  
 Eng. TSO: 1843.4

## ENGINE LOG

Model: O-320-D2J  
 S/N: L-10513-39A

Performed inspection in accordance with AFTC 100hr / Annual inspection checklist, which encompasses FAR part 43 appendix "D". Differential compression check: 1-72/80, 2-74/80, 3-72/80, 4-71/80. Drained engine oil, oil sample taken, installed new oil filter Champion CH48111-1 and serviced with 8qts Phillips 100AW oil, removed, cleaned, gapped, tested and reinstalled spark plugs, performed engine to magneto timing, applied sealant to carb air box. All ops and leak check are good at this time.

AD's current through 2020-20

This AIRCRAFT has been inspected in accordance with a 100HR INSPECTION and was determined to be in airworthy condition and is approved for return to service at this time. Pertinent details of work performed; job number 5371K101420, will be in this aircraft's maintenance continuation file.

Raymond M. Moreno *Raymond M. Moreno* AP3754794

DO NOT DESTROY

# SUPPLEMENTAL MAINTENANCE LOGBOOK-SECTION:

Page:

07/13/2020 N66018 Tach: 5082.9 Eng TT: 14666.7 Prop TT: 2937.1  
ACTT: 18464.4 Eng TSO: 1658.1 Prop TSO: 1658.1

ENGINE LOG  
Model: O-320-D2J  
S/N: L-10513-39A

Perform inspection in accordance with Arizona Flight Training Center 100-hour Inspection checklist, which also encompasses FAR part 43 appendix D.

Drained engine oil and replaced oil filter with new CH48111-1 oil filter, service w/ 8wts. Phillips 100 AW, cleaned, gapped and tested spark plugs, performed engine compression check #1:75/80, #2: 73/80, #3:74/80, #4:74/80, Check mag to engine timing. Install new tach cable. All the ops and leak check are good at this time.

AD's current thought 2020-14

This AIRCRAFT has been inspected in accordance with 100HR inspection and was determined to be in airworthy condition and is approved for return to service at this time. Pertinent details of work performed details of work performed: MCN 66018071320, will be in this aircraft's maintenance continuation file.

Keneth D. Baba  AP1756481

09/01/20 N66018 ACTT: 18558.2 Eng. TSN: 14760.5  
Tach: 47.1 Eng. TSO: 1751.9

ENGINE LOG  
Model: O-320-D2J  
S/N: L-10513-39A

Performed inspection in accordance with AFTC 100hr / Annual Inspection checklist, which encompasses FAR part 43 appendix "D".

Differential compression check: 1-78/80, 2-70/80, 3-76/80, 4-75/80. Drained engine oil, oil sample taken, installed new oil filter Champion CH48111-1 and serviced with 8qts Phillips 100AW oil, removed, cleaned, gapped, tested and reinstalled spark plugs, performed engine to magneto timing, applied sealant to carb air box. All ops and leak check are good at this time.

AD's current through 2020-16

This AIRCRAFT has been inspected in accordance with a 100HR INSPECTION and was determined to be in airworthy condition and is approved for return to service at this time. Pertinent details of work performed; job number 5371K083120, will be in this aircraft's maintenance continuation file.

Colby Hines  AP3649980

10/16/20 N66018 ACTT: 18649.7 Eng. TSN: 14852.0  
Tach: 138.6 Eng. TSO: 1843.4

ENGINE LOG  
Model: O-320-D2J  
S/N: L-10513-39A

Performed inspection in accordance with AFTC 100hr / Annual Inspection checklist, which encompasses FAR part 43 appendix "D". Differential compression check: 1-72/80, 2-74/80, 3-72/80, 4-71/80. Drained engine oil, oil sample taken, installed new oil filter Champion CH48111-1 and serviced with 8qts Phillips 100AW oil, removed, cleaned, gapped, tested and reinstalled spark plugs, performed engine to magneto timing, applied sealant to carb air box. All ops and leak check are good at this time.

AD's current through 2020-20

This AIRCRAFT has been inspected in accordance with a 100HR INSPECTION and was determined to be in airworthy condition and is approved for return to service at this time. Pertinent details of work performed; job number 5371K101420, will be in this aircraft's maintenance continuation file.

Raymond M. Moreno  AP3754794

NOTE: THIS DOCUMENT IS PART OF THE PERMANENT MAINTENANCE RECORDS.

**DO NOT DESTROY**

02/19/20

N66018

Tach: 4798.7

Eng. TT: 14382.5

ACTT: 18180.2

Eng. TSO: 1373.9

## ENGINE LOG

Model: O-320-D2J

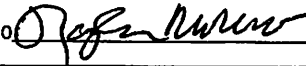
S/N: L-10513-39A

Performed inspection in accordance with Arizona Flight Training Center ANNUAL Inspection checklist, which also encompasses FAR part 43 appendix "D".

Drained engine oil and replaced oil filter with new CH48111-1 oil filter, serviced w/ 8qts. Phillips 100 AW, cleaned, gapped and tested spark plugs, performed engine compression check (#1: 74/80, #2: 76/80, #3: 74/80, #4: 74/80, Checked mag to engine timing. All the ops and leak check are good at this time.

## AD's current through 2020-02

This ENGINE has been inspected in accordance with a 100HR INSPECTION and was determined to be in airworthy condition and is approved for return to service at this time. Pertinent details of work performed; MCN 66018021720, will be in this aircraft's maintenance continuation file.

Raymond M. Moreno  AP3754794

04/07/20

N66018

Tach: 4887.3

Eng. TT: 14471.1

ACTT: 18268.8

Eng. TSO: 1462.5

## ENGINE LOG

Model: O-320-D2J

S/N: L-10513-39A

Performed inspection in accordance with Arizona Flight Training Center ANNUAL Inspection checklist, which also encompasses FAR part 43 appendix "D".

Drained engine oil and replaced oil filter with new CH48111-1 oil filter, serviced w/ 8qts. Phillips 100 AW, cleaned, gapped and tested spark plugs, performed engine compression check (#1: 79/80, #2: 76/80, #3: 77/80, #4: 78/80, Checked mag to engine timing. Install new tach cable. All the ops and leak check are good at this time.

## AD's current through 2020-06

This ENGINE has been inspected in accordance with a 100HR INSPECTION and was determined to be in airworthy condition and is approved for return to service at this time. Pertinent details of work performed; MCN 66018040720, will be in this aircraft's maintenance continuation file.

Raymond M. Moreno  AP3754794

05/26/2020

N66018

Tach: 4986.4

Eng TT: 14570.2

Prop TT: 2840.6

ACTT: 18367.9

Eng TSO: 1561.6

Prop TSO: 1561.6

## ENGINE LOG

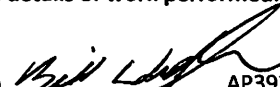
SN: 17275949

Perform inspection in accordance with Arizona Flight Training Center 100-hour Inspection checklist, which also encompasses FAR part 43 appendix D.

Drained engine oil and replaced oil filter with new CH48111-1 oil filter, service w/ 8wts. Phillips 100 AW, cleaned, gapped and tested spark plugs, performed engine compression check #1:78/80, #2: 76/80, #3:77/80, #4:78/80, Check mag to engine timing. Install new tach cable. All the ops and leak check are good at this time.

## AD's current thought 2020-09

This AIRCRAFT has been inspected in accordance with 100HR inspection and was determined to be in airworthy condition and is approved for return to service at this time. Pertinent details of work performed details of work performed: MCN 6601852620, will be in this aircrafts maintenance continuation file.

Bill Willingham  AP393768866

NOTE: THIS DOCUMENT IS PART OF THE PERMANENT MAINTENANCE RECORDS.  
DO NOT DESTROY

12/26/19

N89594

Tach: 4884.4  
ACTT: 12339.2Eng. TT: 14249.8  
Eng. TSO: 1241.2

## ENGINE LOG

Model: O-320-D2J  
S/N: L-10513-39A

Performed inspection in accordance with Arizona Flight Training Center ANNUAL Inspection checklist, which also encompasses FAR part 43 appendix "D".

Drained engine oil and replaced oil filter with new CH48111-1 oil filter, serviced w/ 8qts. Phillips 100 AW, cleaned, gapped and tested spark plugs, performed engine compression check (#1: 74/80, #2: 76/80, #3: 74/80, #4: 74/80, Checked mag to engine timing. Installed new intake gaskets. All the ops and leak check are good at this time.

## AD's current through 2019-24

This ENGINE has been inspected in accordance with a 100HR INSPECTION and was determined to be in airworthy condition and is approved for return to service at this time. Pertinent details of work performed; MCN 89594122619, will be in this aircraft's maintenance continuation file.

Raymond M. Moreno  AP3754794

01/21/20

N89594

Tach: 4977.9  
ACTT: 12432.7Eng. TT: 14343.3  
Eng. TSO: 1334.7

## ENGINE LOG

Model: O-320-D2J  
S/N: L-10513-39A

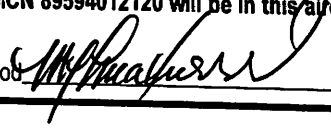
Performed inspection in accordance with Arizona Flight Training Center ANNUAL Inspection checklist, which also encompasses FAR part 43 appendix "D".

Drained engine oil and replaced oil filter with new CH48111-1 oil filter, serviced w/ 8qts. Phillips 100 AW, cleaned, gapped and tested spark plugs, performed engine compression check (#1: 78/80, #2: 74/80, #3: 74/80, #4: 77/80), Installed 500 hour inspected magneto's, checked mag to engine timing.

Removed completed engine and prop assembly to facilitate other maintenance and install on N66018

## AD's current through 2019-26

This ENGINE has been inspected in accordance with a 100HR INSPECTION and was determined to be in airworthy condition and is approved for return to service at this time. Pertinent details of work performed; MCN 89594012120 will be in this aircraft's maintenance continuation file.

M.J. Swartwood  AP3567883

01/21/20

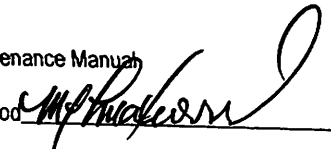
N66018

Tach: 4759.5  
ACTT: 18141.0Eng. TT: 14343.3  
Eng. TSO: 1334.7

## ENGINE LOG

Model: O-320-D2J  
S/N: L-10513-39A

Installed serviceable engine Model: O-320-D2J, S/N: L-10513-39A using Cessna maintenance Manual

M.J. Swartwood  AP3567883

**MAINTENANCE RECORD  
FAR 43.9**

09/04/19

**N89594**

Tach: 4619.2  
ACTT: 12074.0

Eng. TT: 13984.6  
Eng. TSO: 976.0

**ENGINE LOG**

Model: O-320-D2J

S/N: L-10513-39A

**Performed inspection in accordance with Arizona Flight Training Center ANNUAL Inspection checklist, which also encompasses FAR part 43 appendix "D".**

Drained engine oil and replaced oil filter with new CH48111-1 oil filter, serviced w/ 8qts. Phillips 100 AW, cleaned, gapped and tested spark plugs, performed engine compression check (#1: 75/80, #2: 76/80, #3: 75/80, #4: 86/80, Checked mag to engine timing. All the ops and leak check are good at this time.

**AD's current through 2019-16**

**This ENGINE has been inspected in accordance with a 100HR INSPECTION and was determined to be in airworthy condition and is approved for return to service at this time. Pertinent details of work performed; MCN 89594090319, will be in this aircraft's maintenance continuation file.**

Raymond M. Moreno



AP3754794

10/09/19

**N89594**

Tach: 4706.0  
ACTT: 12160.8

Eng. TT: 14071.4  
Eng. TSO: 1062.8

**ENGINE LOG**

Model: O-320-D2J

S/N: L-10513-39A

**Performed inspection in accordance with Arizona Flight Training Center ANNUAL Inspection checklist, which also encompasses FAR part 43 appendix "D".**

Drained engine oil and replaced oil filter with new CH48111-1 oil filter, serviced w/ 8qts. Phillips 100 AW, cleaned, gapped and tested spark plugs, performed engine compression check (#1: 70/80, #2: 74/80, #3: 74/80, #4: 76/80, Checked mag to engine timing. All the ops and leak check are good at this time.

**AD's current through 2019-18**

**This ENGINE has been inspected in accordance with a 100HR INSPECTION and was determined to be in airworthy condition and is approved for return to service at this time. Pertinent details of work performed; MCN 89594100719, will be in this aircraft's maintenance continuation file.**

Jeremy Stockton



AP3133892

11/13/19

**N89594**

Tach: 4796.4  
ACTT: 12251.2

Eng. TT: 14616.8  
Eng. TSO: 1153.2

**ENGINE LOG**

Model: O-320-D2J

S/N: L-10513-39A

**Performed inspection in accordance with Arizona Flight Training Center ANNUAL Inspection checklist, which also encompasses FAR part 43 appendix "D".**

Drained engine oil and replaced oil filter with new CH48111-1 oil filter, serviced w/ 8qts. Phillips 100 AW, cleaned, gapped and tested spark plugs, performed engine compression check (#1: 78/80, #2: 74/80, #3: 74/80, #4: 76/80, Checked mag to engine timing. All the ops and leak check are good at this time.

**AD's current through 2019-22**

**This ENGINE has been inspected in accordance with a 100HR INSPECTION and was determined to be in airworthy condition and is approved for return to service at this time. Pertinent details of work performed; MCN 89594111319, will be in this aircraft's maintenance continuation file.**

Raymond M. Moreno



AP3754794

# MAINTENANCE RECORD

FAR 43.0

05/03/19

**N89594**

Tach: 4327.4  
ACTT: 11782.2

Eng. TT: 13788.5  
Eng. TSO: 779.9

**ENGINE LOG**

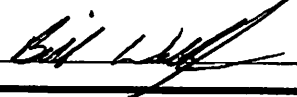
Model: O-320-D2J  
S/N: L-10513-39A

Performed inspection in accordance with Arizona Flight Training Center ANNUAL Inspection checklist, which also encompasses FAR part 43 appendix "D".

Drained engine oil and replaced oil filter with new CH48111-1 oil filter, serviced w/ 8qts. Aeroshell W100 plus, cleaned, gapped and tested spark plugs, performed engine compression check (#1: 70/80, #2: 68/80, #3: 72/80, #4: 78/80, Checked mag to engine timing, tightened oil filler tube and safetied. All the ops and leak check are good at this time.

AD's current through 2019-08

This ENGINE has been inspected in accordance with a 100HR INSPECTION and was determined to be in airworthy condition and is approved for return to service at this time. Pertinent details of work performed; MCN 89594050319, will be in this aircraft's maintenance continuation file.

Bill Willingham  AP393768866

06/07/19

**N89594**

Tach: 4423.1  
ACTT: 11877.9

Eng. TT: 13884.2  
Eng. TSO: 875.6

**ENGINE LOG**

Model: O-320-D2J  
S/N: L-10513-39A

Performed inspection in accordance with Arizona Flight Training Center ANNUAL Inspection checklist, which also encompasses FAR part 43 appendix "D".

Drained engine oil and replaced oil filter with new CH48111-1 oil filter, serviced w/ 8qts. Aeroshell W100 plus, cleaned, gapped and tested spark plugs, performed engine compression check (#1: 76/80, #2: 74/80, #3: 74/80, #4: 76/80, Checked mag to engine timing, tightened oil filler tube and safetied. All the ops and leak check are good at this time.

AD's current through 2019-10

This ENGINE has been inspected in accordance with a 100HR INSPECTION and was determined to be in airworthy condition and is approved for return to service at this time. Pertinent details of work performed; MCN 89594060719, will be in this aircraft's maintenance continuation file.

Raymond M. Moreno  AP3754794

07/31/19

**N89594**

Tach: 4521.9  
ACTT: 11976.7

Eng. TT: 13887.3  
Eng. TSO: 878.7

**ENGINE LOG**

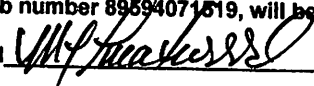
Model: O-320-D2J  
S/N: L-10513-39A

Performed inspection in accordance with Arizona Flight Training Center Annual/ 100-hour Inspection checklist, which also encompasses FAR part 43 appendix "D". Differential compression check: 1-74/80, 2-74/80, 3-74/80, 4-76/80. Drained oil, installed new oil filter, p/n CH48110-1, and serviced with 8qts W100 Aeroshell. Cleaned and rotated spark plugs. Checked magneto to engine timing, Adjusted engine idle to 750RPM, tightened all oil return hoses, installed new r/h engine baffle retainer spring, all operational and leak checks are good.

AD17-16-11 Engine Connecting Rod Assemblies, N/A by Engine S/N

AD's current through 2019-14

This engine has been inspected in accordance with a **100 HOUR INSPECTION** and was found Airworthy and approved for return to service at this time. Pertinent details of work performed; job number 89594071519, will be in this aircraft's maintenance continuation file

M.J. Swartwood  AP35678831A

**MAINTENANCE RECORD  
FAR 43.9**

02/04/19

**N89594**

Tach: 4092.1  
ACTT: 11546.9

Eng. TT: 13553.2  
Eng. TSO: 544.6

**ENGINE LOG**

Model: O-320-D2J  
S/N: L-10513-39A

Performed inspection in accordance with Cessna Maintenance Manual Inspection Checklist, which encompasses FAR part 43 appendix "D".

Replaced engine oil and filter, serviced w/ 7qts. Aeroshell W100 plus, cleaned, gapped and tested spark plugs, performed engine compression check (#1: 76/80, #2: 73/80, #3: 76/80, #4: 74/80, All ops and leak check good at this time.

AD's current through 2019-02

This ENGINE has been inspected in accordance with a 100HR INSPECTION and was determined to be in airworthy condition and is approved for return to service at this time. Pertinent details of work performed; MCN 89594020419, will be in this aircraft's maintenance continuation file.

Raymond M. Moreno  AP3754794

03/11/19

**N89594**

Tach: 4180.5  
ACTT: 11635.3

Eng. TT: 13641.6  
Eng. TSO: 633.0

**ENGINE LOG**

Model: O-320-D2J  
S/N: L-10513-39A

Performed inspection in accordance with Arizona Flight Training Center ANNUAL Inspection checklist, which also encompasses FAR part 43 appendix "D".

Drained engine oil and replaced oil filter with new CH48111-1 oil filter, serviced w/ 8qts. Aeroshell W100 plus, cleaned, gapped and tested spark plugs, performed engine compression check (#1: 76/80, #2: 73/80, #3: 76/80, #4: 74/80, Checked mag to engine timing, All the ops and leak check are good at this time.

AD's current through 2019-04

This ENGINE has been inspected in accordance with a 100HR INSPECTION and was determined to be in airworthy condition and is approved for return to service at this time. Pertinent details of work performed; MCN 89594031119, will be in this aircraft's maintenance continuation file.

Raymond M. Moreno  AP3754794

04/11/19

**N89594**

Tach: 4252.2  
ACTT: 11707.0

Eng. TT: 13713.3  
Eng. TSO: 704.7

**ENGINE LOG**

Model: O-320-D2J  
S/N: L-10513-39A

Performed inspection in accordance with Arizona Flight Training Center ANNUAL Inspection checklist, which also encompasses FAR part 43 appendix "D".

Drained engine oil and replaced oil filter with new CH48111-1 oil filter, serviced w/ 8qts. Aeroshell W100 plus, cleaned, gapped and tested spark plugs, performed engine compression check (#1: 74/80, #2: 76/80, #3: 74/80, #4: 76/80, Checked mag to engine timing, tightened oil filler tube and safetied. All the ops and leak check are good at this time.

AD's current through 2019-06

This ENGINE has been inspected in accordance with a 100HR INSPECTION and was determined to be in airworthy condition and is approved for return to service at this time. Pertinent details of work performed; MCN 89594041119, will be in this aircraft's maintenance continuation file.

Raymond M. Moreno  AP3754794

**MAINTENANCE RECORD  
FAR 43.9**

10/30/18

**N89594**

Tach: 3841.5  
ACTT: 11296.3

Eng. TSN: 13302.6  
Eng. TSO: 294.0

**ENGINE LOG**

Model: O-320-D2J  
S/N: L-10513-39A

Performed inspection in accordance with Cessna Maintenance Manual Inspection Checklist, which encompasses FAR part 43 appendix "D". The owner or operator has been provided with a list of deferred discrepancies (if any).

Replaced engine oil and filter, cleaned-gapped-tested spark plugs, performed engine compression check (#1: 77/80, #2: 79/80, #3: 78/80, #4: 79/80,

**AD's current through 2018-22**

This ENGINE has been inspected in accordance with a **100HR INSPECTION** and was determined to be in airworthy condition and is approved for return to service at this time. Pertinent details of work performed; MCN 89594102818, will be in this aircraft's maintenance continuation file.

Raymond M. Moreno  AP3754794

12/13/18

**N89594**

Tach: 3935.9  
ACTT: 11390.7

Eng. TSN: 13397.0  
Eng. TSO: 384.4

**ENGINE LOG**

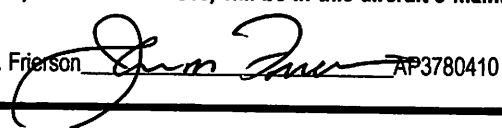
Model: O-320-D2J  
S/N: L-10513-39A

Performed inspection in accordance with Cessna Maintenance Manual Inspection Checklist, which encompasses FAR part 43 appendix "D". The owner or operator has been provided with a list of deferred discrepancies (if any).

Replaced engine oil and filter, cleaned-gapped-tested spark plugs, performed engine compression check (#1: 79/80, #2: 78/80, #3: 78/80, #4: 77/80,

**AD's current through 2018-25**

This ENGINE has been inspected in accordance with a 100HR INSPECTION and was determined to be in airworthy condition and is approved for return to service at this time. Pertinent details of work performed; MCN 89594121018, will be in this aircraft's maintenance continuation file.

James M. Frierson  AP3780410

01/14/19

**N89594**

Tach: 4028.8  
ACTT: 11483.6

Eng. TT: 13489.9  
Eng. TSO: 481.3

**ENGINE LOG**

Model: O-320-D2J  
S/N: L-10513-39A

Performed inspection in accordance with Cessna Maintenance Manual Inspection Checklist, which encompasses FAR part 43 appendix "D".

Replaced engine oil and filter, cleaned, gapped and tested spark plugs, performed engine compression check (#1: 78/80, #2: 76/80, #3: 78/80, #4: 77/80, Installed new EGT probe.

**AD's current through 2018-26**

This ENGINE has been inspected in accordance with a 100HR INSPECTION and was determined to be in airworthy condition and is approved for return to service at this time. Pertinent details of work performed; MCN 89594011419, will be in this aircraft's maintenance continuation file.

Raymond M. Moreno  AP3754794

NOTE: This document is part of the aircraft permanent maintenance records.  
DO NOT DESTROY

**MAINTENANCE RECORD  
FAR 43.9**

ure,  
&

07/05/18

**N89594**

Tach: 3547.5  
ACTT: 11002.5

Eng. TSN: 13008.6  
Eng. TSO: 0.0

**ENGINE LOG**

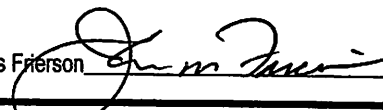
Model: O-320-D2J  
S/N: L-10513-39A

Performed inspection in accordance with Cessna Maintenance Manual Inspection Checklist, which encompasses FAR part 43 appendix "D". The owner or operator has been provided with a list of deferred discrepancies (if any).

No discrepancies noted at this time. Compression test omitted due to zero time on engine.

**AD's current through 2018-12**

This ENGINE has been inspected in accordance with a **100HR INSPECTION** and was determined to be in airworthy condition and is approved for return to service at this time. Pertinent details of work performed; MCN 89594050718, will be in this aircraft's maintenance continuation file.

James Frierson  AP3780410

08/24/18

**N89594**

Tach: 3642.4  
Actt: 11097.2

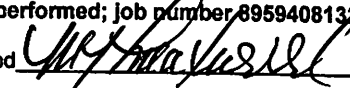
Eng TSN: 13103.5  
Eng TSO: 94.9

**ENGINE LOG**

Performed inspection in accordance with Arizona Flight Training Center ANNUAL inspection checklist, which also encompasses FAR part 43 appendix "D". *Differential compression check: 1-79/80, 2-78/80, 3-78/80, 4-79/80.* Drained oil, installed new oil filter, p/n CH48110-1, and serviced with 8qts V100 Aeroshell. Cut open and inspected filter, no defects noted, Oil sample taken. Cleaned, gapped and rotated spark plugs, adjusted engine idle and mixture. Checked mag to engine timing. Tightened all oil return hoses, Installed inter cylinder baffle connect on #2&4 cylinders. Installed heat shield and wrap to starter cable. Ops and leak checks are good.

**AD's current through 2018-17**

This engine has been inspected in accordance with a **ANNUAL INSPECTION** and was determined to be in airworthy condition and is approved for return to service at this time. Pertinent details of work performed; Job number 8959408132018, will be in this aircraft's maintenance continuation file

M.J.Swartwood  AP3567883IA

09/21/18

**N89594**

Tach: 3742.0  
ACTT: 11196.8

Eng. TSN: 13203.1  
Eng. TSO: 194.5

**ENGINE LOG**

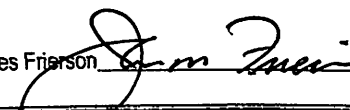
Model: O-320-D2J  
S/N: L-10513-39A

Performed inspection in accordance with Cessna Maintenance Manual Inspection Checklist, which encompasses FAR part 43 appendix "D". The owner or operator has been provided with a list of deferred discrepancies (if any).

Replaced engine oil and filter, cleaned-gapped-tested spark plugs, performed engine compression check (#1: 79/80, #2: 79/80, #3: 79/80, #4: 77/80, adjusted engine to magneto timing, tightened #4 oil drainback tube, re-safety tied oil dipstick, replaced muffler, re-secured oil in and out lines to oil cooler, replaced clamp on alternator wiring

**AD's current through 2018-19**

This ENGINE has been inspected in accordance with a **100HR INSPECTION** and was determined to be in airworthy condition and is approved for return to service at this time. Pertinent details of work performed; MCN 89594091818, will be in this aircraft's maintenance continuation file.

James Frierson  AP3780410

NOTE: This document is part of the aircraft permanent maintenance records.  
**DO NOT DESTROY**

# MAINTENANCE RECORD FAR 43.9

06/21/18  
MODEL O-320-D2J  
S/N L-10513-39A  
TACH READING TSMOH 0.0

AIRCRAFT ENGINE SPECIALISTS, LLC  
2330 SOUTH AIRPORT BOULEVARD, SUITE #5  
CHANDLER, ARIZONA 85286  
(480) 516-0390 CRS # ZF7R728Y

This engine has been overhauled in accordance with the Lycoming Overhaul Manual 60294-7-14 and other FAA-approved procedures. Applicable FAA Airworthiness Directives and manufacture service bulletins have been complied with, see AD sheet. All parts have been inspected and accessories are either new or newly overhauled. NDT on major components referenced on 8130's of vendors. Camshaft is new. Lifters overhauled by AEA w/o 189098. Crankcase repaired at Divco w/o 118838. Camshaft overhauled at ACSS w/o 249073. Crankshaft pn 76948 sn 81303 repaired by ACSS w/o 249073, complied with Service Bulletin 475C by inspection of bolt hole threads, new bolt, torque bolt to 204 inch lbs and bend lock tab. New cylinder kits, SL32006W-A20P, sn #1- 326W-F18-19922, #2-326W-F18-19923, #3- 326W-F18-19924, #4- 326W-F18-19920. Carburetor MA-4SPA, pn 10-5217 sn CK26427 overhauled w/o 041399. Right magneto 4371 sn 13050454 overhauled w/o M4142-18-05. Left magneto 4371, sn 15100103 overhauled w/o M4139-18-05. Engine test run and was found in an airworthy condition. Starter 149-NL sn 11-S052206, new. Further details of this engine overhaul may be found at this facility under work order E5176-18-05.

*James Wheeler*

James Wheeler

## Parts Used on WO#E5476-18-05

|   |              |                           |   |              |                                 |    |               |                       |
|---|--------------|---------------------------|---|--------------|---------------------------------|----|---------------|-----------------------|
| 1 | 61084        | SPRING                    | 1 | SL53E19600   | VERNATHERM VALVE                | 3  | LW-31H0 88    | BOLT                  |
| 1 | 62417        | PLUG                      | 1 | SL68759      | DRAINBACK TUBE (360)            | 4  | 69603         | HOSE ASSY             |
| 1 | 71140        | FITTING                   | 1 | SL68760      | DRAIN BACK TUBE (360)           | 4  | 73346 U/S     | FLANGE, INT U/S       |
| 1 | 71596        | WASHER                    | 1 | SL69371-1    | GASKET SET                      | 4  | 74636 U/S     | ROCKER ARM            |
| 1 | 72220        | GASKET                    | 1 | SL70484      | SCREEN OIL SUCTION              | 4  | SL11020 M06   | BEARING               |
| 1 | 75761        | TUBE                      | 1 | SL72970      | GEAR ASSEMBLY (360)             | 4  | SL13444-1     | PISTON PIN WITH PLUGS |
| 1 | 75767        | TUBE                      | 1 | SL75072      | GEAR & BUSH ASSY (360)          | 4  | SL13790A      | SHAFT,ROCKER          |
| 1 | 77808        | VALVE ASSY                | 1 | SL78528KIT   | OIL PUMP KIT                    | 4  | SL18790       | ROCKER ARM (360)      |
| 1 | 149-NL       | STARTER                   | 1 | SL-STD-1211  | PLUG                            | 4  | SL32006W-A20P | POWER ASSY NEW        |
| 1 | 204418-156   | OIL FILTER ADAPTER ASSY   | 1 | SL-STD-2213  | SCREW                           | 4  | SL74084       | INTAKE PIPE           |
| 1 | 61098 U/S    | ADAPTER ASSY-VAC PUMP U/S | 1 | STD-2168 N/S | NUT N/S                         | 4  | SLR75906      | GASKETS               |
| 1 | 78915 U/S    | SUMP ASSY                 | 2 | 71610        | HOOKE                           | 4  | STD-1821      | HOSE                  |
| 1 | AA48110      | OIL FILTER                | 2 | 71611        | RETAINER                        | 4  | STD-1901      | SCREW                 |
| 1 | AEL19646     | GEAR                      | 2 | 4371 OHC     | MAGNETO OHC                     | 5  | SL13923A      | BUSHING, SPLIT SEAM   |
| 1 | AEL76121     | SHAFT                     | 2 | 74996 U/S    | GEAR ASSY-CRANKSHAFT IDLER U/S  | 6  | 15F19957-14   | ROD ASSY              |
| 1 | AF15472      | FUEL PUMP                 | 2 | LW12706 U/S  | ADAPTER MAG IMP COUPLING U/S    | 8  | QS200M28H     | CLAMP                 |
| 1 | CH48110-1    | FILTER                    | 2 | LW13796 U/S  | SHAFT-CRANKSHAFT IDLER GEAR U/S | 8  | QS200M611     | CLAMP                 |
| 1 | LW12408 U/S  | ACCY CASE                 | 2 | MS20823-8    | ELBOW ASSY                      | 8  | REM38E        | SPARK PLUG            |
| 1 | LW-14798     | GAUGE ASSY                | 2 | SL13884A M06 | BEARING                         | 8  | SL12186       | NUT                   |
| 1 | LW-18402 OHC | CRANKCASE                 | 2 | SL31C-15     | STUD                            | 8  | SL12892       | THRUST BUTTON         |
| 1 | LW-31-1 16   | BOLT                      | 2 | SL31C-19     | STUD                            | 8  | SL61662 M06   | BEARING               |
| 1 | M4001        | HARNESS                   | 2 | SL61665      | GEAR (360)                      | 8  | SL68987       | TUBE, SHROUD          |
| 1 | SL1028-B     | BALL-CHROME ALLOY         | 2 | SL68761      | DRAIN BACK TUBE (360)           | 8  | SL74637       | BUSHING               |
| 1 | SL18639      | LOCKPLATE                 | 2 | SL72569      | BAFFLE                          | 8  | SL78027       | ROD BOLT              |
| 1 | SL18840      | CAMSHAFT                  | 2 | SL78914      | CONNECTOR                       | 10 | SL-STD-1410   | NUT                   |

-END-

07/05/18

N89594

Tach: 3547.5

Eng. TSN: 13008.6

ACTT: 11002.5

Eng. TSO: 0.0

### ENGINE LOG

Model: O-320-D2J

S/N: L-10513-39A

Installed Overhauled engine P/N: O-320-D2J bearing Serial # L-10513-39A. Serviced engine with 7 qts Mineral oil and performed operational checks with no discrepancies noted at this time.

Pertinent details of work performed; MCN 89594050718, will be in this aircraft's maintenance continuation file.

James Frierson

AP3780410

NOTE: This document is part of the aircraft permanent maintenance records.  
DO NOT DESTROY

## ENGINE ENTRY LOG

REG. NO: N89594

ACTT: 9130.0

TACH: 1639.2

Removed magnetos to be rebuilt reinstalled per Cessna service manual. Cleaned and tested spark plugs .

DATE: 12/3/12 SIGNED: Scott Birky A&P 3639263 Scott Birky

## ENGINE ENTRY LOG

REG. NO: N89594

ACTT: 9132.0

TACH: 1641.2

Changed oil and filters. Installed 7 quarts Aeroshell w100 and CH 48111-1. Opened and inspected oil filter.

DATE: 12/3/12 SIGNED: Scott Birky A&P 3639263 Scott Birky

## ENGINE ENTRY LOG

REG. NO: N89594

ACTT: 9179.2

TACH: 1688.5

ENG. SN: L-10513-39A

TTIS: 12,948.8

ENG TSO 2382.3

Performed 100 hour inspection in accordance with Lycoming inspection and maintenance guidelines. Changed oil and filter. Installed 8 quarts Aeroshell 100w50 and CH48111-1 oil filter. Cleaned, gapped and tested spark plugs Cylinder compressions: 1: 72/80 75/80 76/80 72/80. All times corrected.

I certify that this aircraft engine has been inspected in accordance with a 100 hour inspection and was found to be in airworthy condition at this time and date.

DATE: 12/29/12 SIGNED: Scott Birky A&P 3639263 Scott Birky

03/01/2013

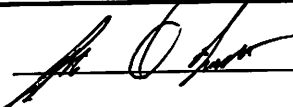
N89594

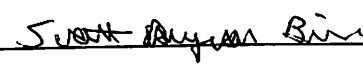
Tach: 1784.0  
ACTT: 9239.0Eng TSN: 13008.6  
Eng TSO: 2541.1

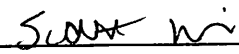
Engine removed for overhaul

Mark J. Swartwood

A&amp;P3567883

| ENGINE ENTRY LOG                                                                                                                                                                                                                                                                                                                                                                                                                                                            |               |                        |        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------------|--------|
| REG. NO: N89594                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ACTT: 8,827.8 | TACH:                  | 1390.0 |
| <p>Performed 100 hour inspection in accordance with Lycoming inspection and maintenance guidelines. Changed oil and filter. Installed 8 quarts Aeroshell 100w50 and CH48111-1 oil filter. Cleaned, gapped and tested spark plugs Cylinder compressions: 1: 75/80, 2: 76/80, 3:73/80, 4: 71/80.</p> <p>I certify that this aircraft engine has been inspected in accordance with a 100 hour inspection and was found to be in airworthy condition at this time and date.</p> |               |                        |        |
| DATE: 06/27/2012 SIGNED:                                                                                                                                                                                                                                                                                                                                                                   |               | A&P 3018684 Jim Ochwat |        |

| ENGINE ENTRY LOG                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                |                               |        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------------------|--------|
| REG. NO: N89594                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ACTT: 8981.0   | TACH:                         | 1490.0 |
| ENG. SN: L-10513-39A                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | TTIS: 12,750.6 | ENG TSO                       | 2283.1 |
| <p>Performed 100 hour inspection in accordance with Lycoming inspection and maintenance guidelines. Changed oil and filter. Installed 8 quarts Aeroshell 100w50 and CH48111-1 oil filter. Cleaned, gapped and tested spark plugs Cylinder compressions: 1: 76/80 74/80 76/80 72/80. All times corrected.</p> <p>I certify that this aircraft engine has been inspected in accordance with a 100 hour inspection and was found to be in airworthy condition at this time and date.</p> |                |                               |        |
| DATE: 8/18/12 SIGNED:                                                                                                                                                                                                                                                                                                                                                                              |                | A&P 3639263 Scott Myron Birky |        |

| ENGINE ENTRY LOG                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                |                         |        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------------|--------|
| REG. NO: N89594                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ACTT: 9080.0   | TACH:                   | 1589.2 |
| ENG. SN: L-10513-39A                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | TTIS: 12,849.6 | ENG TSO                 | 2382.3 |
| <p>Performed 100 hour inspection in accordance with Lycoming inspection and maintenance guidelines. Changed oil and filter. Installed 8 quarts Aeroshell 100w50 and CH48111-1 oil filter. Cleaned, gapped and tested spark plugs Cylinder compressions: 1: 76/80 74/80 74/80 72/80. All times corrected.</p> <p>I certify that this aircraft engine has been inspected in accordance with a 100 hour inspection and was found to be in airworthy condition at this time and date.</p> |                |                         |        |
| DATE: 11/8/12 SIGNED:                                                                                                                                                                                                                                                                                                                                                                              |                | A&P 3639263 Scott Birky |        |

Executive Aviation, LLC dba Aeromech, 6801 N Glen Harbor Blvd., Suite C107, Glendale AZ 85307

ENGINE LOG ENTRY

REG NO: N89594 W/O# 40002 ACTT: ~~8,727.4~~ <sup>8,753.6</sup> <sub>AL</sub> TACH: 1,262.6  
ENG SN: L-10513-39A TTIS: ~~12,497.0~~ <sup>12,558.0</sup> <sub>ND</sub> TSO: ~~1,262.6~~ <sup>2,029.5</sup> <sub>AL</sub>

Changed oil and filter. Installed 7 quarts Aeroshell W100 and CH48111-1 oil filter. Opened and inspected filter. No defects found.

DATE: 04/05/12 SIGNED: David W. Irish AP3396438IA Dave Irish

Glendale Aircraft Maintenance, 6801 N Glen Harbor Blvd Suite 206D, Glendale Arizona 85307

ENGINE LOG ENTRY

REG NO: N89594 W/O# 40013 ACTT: ~~8,727.8~~ <sup>8,781.0</sup> <sub>AL</sub> TACH: 1,290.0  
ENG SN: L-10513-39A TTIS: ~~12,497.4~~ <sup>12,585.4</sup> <sub>ND</sub> TSO: ~~2,029.9~~ <sup>2,056.9</sup> <sub>AL</sub>

Complied with a 100 hour inspection in accordance with Lycoming O-320 and Cessna 172 maintenance and inspection criteria. Changed oil and filter. Installed 8 quarts Aeroshell 100w50 and CH48111-1 oil filter. Cleaned, gapped and tested all spark plugs. Cylinder compressions: 1: 76/80, 2: 76/80, 3: 74/80, 4: 70/80. AD's current through 2012-06.

I certify that this aircraft engine has been inspected in accordance with a 100 hour inspection and was found to be in airworthy condition at this time and date.

DATE: 04/27/12 SIGNED: David W. Irish AP3396438IA Dave Irish

## ENGINE MAINTENANCE LOG

| DATE | TACH.<br>READING | ENGINE<br>TOTAL/TIME | ENGINE<br>TIME SMOH | Description of work performed<br>Signature & Certificate # |
|------|------------------|----------------------|---------------------|------------------------------------------------------------|
|------|------------------|----------------------|---------------------|------------------------------------------------------------|

Executive Aviation, LLC dba Arizona Flight Training Center, 6801 N Glen Harbor Blvd #107, Glendale AZ 85307

## ENGINE LOG ENTRY

REG NO: N89594      W/O# 9985      ACTT: 8,582.9      TACH: 1,091.9  
ENG SN: L-10513-39A      TTIS: ~~12,353.8~~  
*12,352.5 RR*      TSO: ~~1,091.9~~  
*1,886.3*

Complied with Annual Inspection in accordance with Lycoming O-320 and Cessna 172 maintenance and inspection criteria. Changed oil and filter. Installed 7 quarts Aeroshell W100 and CH48110-1 oil filter. Cleaned, gapped and tested all spark plugs. Cylinder compressions: 1: 78/80, 2: 78/80, 3: 70/80, 4: 72/80. I certify that this aircraft engine has been inspected in accordance with an annual inspection and was found to be in airworthy condition at this time and date.

DATE: 01/10/12 SIGNED: Nathan Walsh AP3396438IA Dave Irish

Executive Aviation, LLC dba Aeromech, 6801 N Glen Harbor Blvd., Suite C107, Glendale AZ 85307

## ENGINE LOG ENTRY

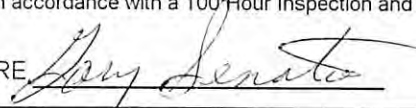
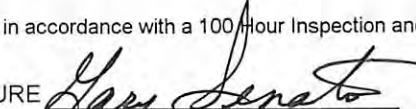
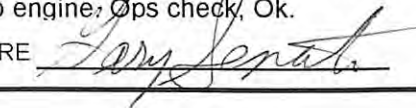
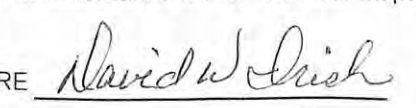
|                     |           |                |                                           |
|---------------------|-----------|----------------|-------------------------------------------|
| REG NO: N89594      | W/O# 9999 | ACTT: 8,681.4  | TACH: 1,190.4                             |
| ENG SN: L-10513-39A |           | TTIS: 12,485.8 | TSO: <del>1,190.4</del><br>2018.3<br>15x6 |

Complied with 100 hour inspection in accordance with Lycoming O-320 and Cessna 172 maintenance and inspection criteria. Changed oil and filter. Installed 7 quarts Aeroshell W100 and CH48110-1 oil filter. Cleaned, gapped and tested all spark plugs. Cylinder compressions: 1: 78/80, 2: 78/80, 3: 70/80, 4: 72/80.

I certify that this aircraft engine has been inspected in accordance with a 100 hour inspection and was found to be in airworthy condition at this time and date.

DATE: 03/10/12 SIGNED: *Dave Irish* AP3396438IA Dave Irish

## ENGINE MAINTENANCE LOG

| DATE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | TACH.<br>READING                                                                                | ENGINE<br>TOTAL/TIME | ENGINE<br>TIME SMOH | Description of work performed<br>Signature & Certificate # |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|----------------------|---------------------|------------------------------------------------------------|
| <b>Executive Aviation, LLC dba Arizona Flight Training Center, 6801 N Glen Harbor Blvd #107, Glendale AZ 85307, 623.877.9334</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                 |                      |                     |                                                            |
| REG. NO: N89594                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | W/O#: 9895                                                                                      | TACH: 794.7          | ENG TT: 12055.3     | ACTT: 8285.7 ENG TSO: 1587.8                               |
| Completed 100 Hour Inspection in accordance with Cessna 172 inspection guidelines. Changed oil and filter with CH48110-1 filter and 7 qts. Aeroshell 100W/50. Compression results: #1-78/80, #2-74/80, #3-76/80, #4-76/80. All ops and leak checks good. AD's current through 2011-11/12. All work done in accordance with Lycoming service information and maintenance manuals.                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                 |                      |                     |                                                            |
| I certify that this engine has been inspected in accordance with a 100 Hour Inspection and was determined to be in airworthy condition.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                 |                      |                     |                                                            |
| DATE: 5/24/2011                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | SIGNATURE:    |                      | AP3348505           | Gary Senatore                                              |
| <b>Executive Aviation, LLC dba Arizona Flight Training Center, 6801 N Glen Harbor Blvd #107, Glendale AZ 85307, 623.877.9334</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                 |                      |                     |                                                            |
| REG. NO: N89594                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | W/O#: 9939                                                                                      | TACH: 893.2          | ENG TT: 12153.8     | ACTT: 8384.2 ENG TSO: 1686.3                               |
| Completed 100 Hour Inspection in accordance with FAR 43, Appendix D. Drained oil and removed oil filter. Cut open oil filter and inspected oil filter for contaminants. None found. Inspected oil suction screen, cleaned and reinstalled screen. Serviced engine with 7 quarts of AS 100W oil. Installed ES48110-1 filter. Compression results: #1-78/80, #2-76/80, #3-78/80, #4-75/80. Removed and replaced #4 bottom spark plug lead nut. All ops and leak checks good. AD's current through 2011-16. All work done in accordance with Lycoming service information and maintenance manuals.                                                                                                                                                                       |                                                                                                 |                      |                     |                                                            |
| I certify that this engine has been inspected in accordance with a 100 Hour Inspection and was determined to be in airworthy condition.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                 |                      |                     |                                                            |
| DATE: 9/2/2011                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | SIGNATURE:   |                      | AP3348505           | Gary Senatore                                              |
| <b>Executive Aviation, LLC dba Arizona Flight Training Center, 6801 N Glen Harbor Blvd #107, Glendale AZ 85307, 623.877.9334</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                 |                      |                     |                                                            |
| REG. NO: N89594                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | W/O#: 9943                                                                                      | TACH: 912.8          | ENG TT: 12173.4     | ACTT: 8403.8 ENG TSO: <del>10443.4</del> 1705.9            |
| Removed inop left hand magneto (P/N 4371, S/N 05110035). Installed serviceable magneto (P/N 4371, S/N 07031485). Timed magneto to engine. Ops check. Ok.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                 |                      |                     |                                                            |
| DATE: 9/17/2011                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | SIGNATURE:  |                      | AP3348505           | Gary Senatore                                              |
| <b>Executive Aviation, LLC dba Arizona Flight Training Center, 6801 N Glen Harbor Blvd #107, Glendale AZ 85307, 623.877.9334</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                 |                      |                     |                                                            |
| REG. NO: N89594                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | W/O#: 9955                                                                                      | ENG TT: 12253.6      | ENG TSO: 1786.1     |                                                            |
| Completed 100 Hour Inspection in accordance with FAR 43, Appendix D. Drained oil and removed filter. Cut open oil filter and inspected for contaminants. None found. Inspected oil suction screen, cleaned & reinstalled screen. Removed and inspected Bracket filter and reinstalled. Serviced engine with 8 quarts of AS 100W oil and installed ES4811-1 filter. Replaced worn spark plugs with new (REM38E and top 4-REM40E). C/W 500 hour Magneto replacement by installing remanufactured magnetos (p/n 4371, RH s/n 09100506, LH s/n 08021647). Compression results: #1-79/80, #2-79/80, #3-79/80, #4-70/80. All ops and leak checks good. AD's current through 2011-22. All work done in accordance with Lycoming service information and maintenance manuals. |                                                                                                 |                      |                     |                                                            |
| I certify this engine has been inspected in accordance with a 100 Hour Inspection and was determined to be in airworthy condition.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                 |                      |                     |                                                            |
| DATE: 10/29/2011                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | SIGNATURE:  |                      | AP33964381A         | David W. Irish                                             |

## ENGINE MAINTENANCE LOG

| DATE     | TACH.<br>READING | ENGINE<br>TOTAL/TIME | ENGINE<br>TIME SMOH | Description of work performed<br>Signature & Certificate #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------|------------------|----------------------|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 10-30-09 |                  |                      |                     | Completed 100HR insp. IAW FAR 43 App. D.<br>Drained oil, removed + inspected oil filter;<br>no defects noted. Installed oil filter<br>(P/N CH48110-1) and serviced sump using 7Q<br>Aeroshell W100. Timed magnetos; no defects<br>noted. Cleaned + rotated spark plugs.<br>R/R vacuum pump (P/N 215CC); ops check<br>good. R/R oil dipstick gasket. Fan + leak checked<br>engine; no defects noted. No new or recurring<br>ADs at this time. I certify this engine<br>is airworthy and hereby return it<br>to service. Aaron Cook AP318734 <i>Aaron Cook</i><br>END |

6-16-10

N89594  
Engine LogTach: 495.7  
ACTT: 7986.7Eng TSN: 11,756.3  
Eng TSO: 1288.8

Completed Annual Inspection in accordance with Cessna 172 50-, 100-hr, 200-hr and 1-yr checklist items. Drained oil, inspected & replaced oil filter (CH48110-1) and svc'd with 7 qt. A/S W100 oil. Differential compression check: 1- 77/80, 2- 72/80, 3- 68/80, 4- 78/80. Serviced & rotated spark plugs. Drained carburetor float bowl and inspected & cleaned carb fuel inlet strainer. Tightened & safetied oil filler tube. Adjusted idle RPM. ADs current through 2010-12.

All ops and leak checks good. Work done IAW Cessna 172 SM & Lycoming Direct-drive Engine O/H manual & service information.

I certify that this engine has been inspected in accordance with an Annual Inspection and was determined to be in airworthy condition.

Rudy Tilman *Rudy Tilman* AP526797588IA

10-23-10

N89594  
Engine LogTach: 595.3  
ACTT: 8086.3Eng TSN: 11,855.9  
Eng TSO: 1388.4

Completed 100-hr Inspection in accordance with Cessna 172P 50- & 100-hr checklist items. Drained oil, inspected & replaced oil filter (CH48110-1) and svc'd with 7 qt. A/S W100 oil. Serviced & rotated spark plugs. Drained carburetor float bowl and inspected & cleaned carb fuel inlet strainer. Removed propeller, replaced crankshaft seal (LW-13792). Adjusted idle RPM. ADs current through 2010-21.

All ops and leak checks good. Work done IAW Cessna 172 SM & Lycoming service information.

I certify that this engine has been inspected in accordance with a 100-hr Inspection and was determined to be in airworthy condition.

Rudy Tilman *Rudy Tilman* AP526797588

11-23-10 632.0 Conducted differential compression check: 1- 77/80, 2- 77/80, 3- 76/80, 74/80. R/R'd spark plugs as necessary. *Rudy Tilman* AP526797588

1-27-11

N89594  
Engine LogTach: 695.0  
ACTT: 8186.0Eng TSN: 11,955.6  
Eng TSO: 1488.1

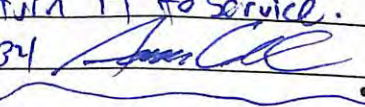
Completed Annual Inspection in accordance with Cessna 172 50-, 100-hr, 200-hr and 1-yr checklist items. Drained oil, inspected & replaced oil filter (CH48110-1) and svc'd with 7 qt. A/S W100 oil. Differential compression check: 1- 74/80, 2- 69/80, 3- 72/80, 4- 71/80. Serviced & rotated spark plugs. Drained carburetor float bowl and inspected & cleaned carb fuel inlet strainer. Tightened & safetied oil filler tube. Adjusted idle RPM and mixture. ADs current through 2011-02.

All ops and leak checks good. Work done IAW Cessna 172 SM & Lycoming service information.

I certify that this engine has been inspected in accordance with an Annual Inspection and was determined to be in airworthy condition.

Rudy Tilman *Rudy Tilman* AP526797588IA

## ENGINE MAINTENANCE LOG

| DATE    | TACH.<br>READING | ENGINE<br>TOTAL/TIME | ENGINE<br>TIME SMOH | Description of work performed<br>Signature & Certificate #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|---------|------------------|----------------------|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6-26-09 | 259.6            |                      |                     | Completed 100HR inspection IAW FAR 43 Appendix D. Drained oil, removed and inspected filter; no defects noted. Installed oil filter (P/N CH48110-1) and serviced sump using 7Q Aeroshell W100. Cdd compression test within acceptable ranges. R/R Inlet filter (P/N 408). Found leak in primer line. Disconnected primer line at firewall and capped off. Primer is placarded INOP. Ran + leak checked engine; no defects noted. No new or recurring ADs at this time. I certify this engine is airworthy and hereby return it to service.<br>Aaron Cook AP3118734 <br>END |
| 8-29-09 | 358.9            |                      |                     | Completed 100HR inspection IAW FAR 43 App. D.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| HOBBS   | 2401.8           |                      |                     | Drained oil, removed + inspected oil filter; no defects noted. Installed oil filter (P/N CH48111-1) + serviced sump using 7Q Aeroshell W100. Compression test as follows: 1) 75/80 2) 74/80 3) 76/80 4) 77/80. R/R inlet filter (P/N 6108). R/R section of primer line noted in the entry dated 6-26-09; GPS check good. Cleaned spark plugs. Adjusted engine to mageto timing. No new or recurring ADs at this time. I certify this engine is airworthy and hereby return it to service.<br>Aaron Cook AP 3118734 <br>END                                               |

N89594  
DATE 8-6-08

MAINT. LOG ENTRY  
New Tach: 000.0 Old Tach: 6882.7  
Replaced Tach. with NEW P/N: D1-112-5023 S/N 28409

WO:21208-16

(SIGNED) Tollin Myers CERT. # AEP510861818

DATE

TACH

R

ENGINE LOG ENTRY

MODEL # 0-320-D2J

SERIAL # L-10613-39A

N89594

8-16-08

11282.9

22.2

815.4

WO# 22821

DATE

TTE

TACH

SMOH

I certify this ENGINE was inspected in accordance with 100 HR Insp. and a list of discrepancies and unworthy items dated 8-16-08 has been provided for the aircraft operator, D.C.A.

SIGNED

MY

Tollin Myers

CERT. # AEP510861818

Tach

TTE

SMOH

11-18-08

60.3

11321.0

953.5

I certify that I have performed an Annual Insp. on this engine & determined it to be in an Airworthy condition. Compression: 1) 72/80 2) 74/80 3) 74/80 4) 74/80. Changed oil & filter w/ Aeroshell 100 & 48110. Checked mag to Eng timing. Cleaned & gapped plugs. Washed eng. CWAD-2008-19-05 ECT titan cyl. DWA by s/v range.

Matthew Smith

AP593281693EA

END

N89594

5/3/09

TACH: 160.0

Completed 100HR inspection IAW FAR 43. Drained oil, removed & inspected oil filter. Inspected sump screen; no defects noted. Installed oil filter (CH48110-1) and serviced sump using 7Q Aeroshell W100. R/R flexible portions of oil return lines. Completed compression test: #1 - 74/80 #2 - 73/80 #3 - 74/80 #4 - 74/80. Cleaned and rotated spark plugs. Timed magnetos; no defects noted. R/R inlet filter (P/N 6108). Visually inspected muffler; no defects noted. I certify this engine is airworthy and hereby return it to service.

Aaron Cook AP 3118734

END

## ENGINE MAINT. ENTRY

Lycoming Model: O-320-D2J

S/N L10513-39A

N89594

11-13-06

10467.5

6069.6

DATE

TTE

TACH

SMOH

I certify this ENGINE was inspected in accordance with 100 HR Insp. and a list of discrepancies and unairworthy items dated 11-13-06 has been provided for the aircraft owner D.C.A.

SIGNED

CERT#

AEP 510861818

## ENGINE LOG ENTRY

MODEL # O-320-D2J

SERIAL # L-10513-39A

N89594

1-13-07

10551.3

6153.3

83.8

DATE

TTE

TACH

SMOH

I certify this ENGINE was inspected in accordance with 100 HR Insp. and a list of discrepancies and unairworthy items dated 1-13-07 has been provided for the aircraft owner D.C.A.

SIGNED

CERT#

AEP 511722956

## ENGINE LOG ENTRY

MODEL # O-320-D2J

SERIAL # L-10513-39A

N89594

3-31-07

10643.6

6245.6

176.1

DATE

TTE

TACH

SMOH

I certify this ENGINE was inspected in accordance with 100 HR Insp. and a list of discrepancies and unairworthy items dated 3-31-07 has been provided for the aircraft owner D.C.A.

SIGNED

CERT#

AEP 511722956

## ENGINE LOG ENTRY

MODEL # O-320-D2J

SERIAL # L-10513-39A

N89594

5-2-07

10728.7

6330.7

261.2

DATE

TTE

TACH

SMOH

I certify this ENGINE was inspected in accordance with 100 HR Insp. and a list of discrepancies and unairworthy items dated 5-2-07 has been provided for the aircraft owner D.C.A.

SIGNED

CERT#

AEP 510861818

## ENGINE LOG ENTRY

MODEL # O-320-D2J

SERIAL # L-10513-39A

N89594

9-10-07

10821.9

6423.9

354.4

DATE

TTE

TACH

SMOH

I certify this ENGINE was inspected in accordance with 100 HR Insp. and a list of discrepancies and unairworthy items dated 9-10-07 has been provided for the aircraft owner D.C.A.

SIGNED

CERT#

AEP 511722956

## ENGINE LOG ENTRY

MODEL # O-320-D2J

SERIAL # L-10513-39A

N89594

11-20-07

10919.6

6521.6

452.1

DATE

TTE

TACH

SMOH

I certify this ENGINE was inspected DURING an ANNUAL Insp.

SIGNED

CERT#

AEP 510861818 IA

## ENGINE LOG ENTRY

MODEL # O-320-D2J

SERIAL # L-10513-39A

N89594

2-18-08

11013.0

6615.0

545.5

DATE

TTE

TACH

SMOH

I certify this ENGINE was inspected in accordance with 100 HR Insp. and a list of discrepancies and unairworthy items dated 2-18-08 has been provided for the aircraft operator, D.C.A.

SIGNED

CERT#

AEP 511722956

## ENGINE LOG ENTRY

MODEL # O-320-D2J

SERIAL # L-10513-39A

N89594

4-7-08

11103.0

6705.0

635.5

DATE

TTE

TACH

SMOH

I certify this ENGINE was inspected in accordance with 100 HR Insp. and a list of discrepancies and unairworthy items dated 2-18-08 has been provided for the aircraft operator, D.C.A.

SIGNED

CERT#

AEP 510861818

## ENGINE LOG ENTRY

MODEL # O-320-D2J

SERIAL # L-10513-39A

N89594

5-28-08

11191.9

6793.9

724.4

DATE

TTE

TACH

SMOH

I certify this ENGINE was inspected in accordance with 100 HR Insp. and a list of discrepancies and unairworthy items dated 2-18-08 has been provided for the aircraft operator, D.C.A.

SIGNED

CERT#

AEP 510861818

## ENGINE MAINTENANCE LOG

"O" SMOH

DATE: Nov. 4, 2006

TOTAL TIME: 10467.5

MANUFACTURER: Lycoming

TACH TIME:

MODEL: O-320-D2J

SERIAL NUMBER: L--10513-39A

This engine has been disassembled, cleaned, inspected, repaired, and overhauled in accordance with Lycoming Direct Drive Overhaul Manual #60294-9. All applicable Airworthiness Directive have been complied with during overhaul.

Engine assembled using the following new (unless otherwise noted) parts.

| <u>Description: Overhauled Parts</u> | <u>Part No.</u> | <u>Work Order No.</u>        | <u>Qty:</u> |
|--------------------------------------|-----------------|------------------------------|-------------|
| Crankshaft                           | 13B17031        | ECI # 11506-1                | 1           |
| Magnaflux Misc Internal Steel        |                 | Rock # 10231                 | 5           |
| Rocker Arms                          | 69444/74636     | Rock # 10231                 | 8           |
| Connecting Rods                      | 78030           | ECI # 49928.1                | 4           |
| Hydraulic Units                      | 78290           | Rock # 9300.10               | 8           |
| Tappets                              | 72877           | Rock # 10852                 | 8           |
| Camshaft                             | 76097           | Rock # 9182                  | 1           |
| Gear-Crankshaft                      | 61155           | Rock #10332                  | 1           |
| <u>Description: New Parts</u>        | <u>Part No.</u> | <u>Lot or Serial No.</u>     | <u>Qty:</u> |
| Rod Bolts                            | AEL78027        | 121405                       | 8           |
| Rod Nuts                             | AEL12186        |                              | 8           |
| Rod Bearings                         | AEL69373        | 082406                       | 8           |
| Main Bearing                         | AEL-11021       | 031406                       | 4           |
| Front Main Bearing                   | AEL-13884       | 040406                       | 2           |
| Piston Pins                          | AEL14077-1      | PPA0127-077-1                | 4           |
| Spark Plug                           | URHM-38E        |                              | 8           |
| Vernatherm                           | AEL53E19600     | 122104                       | 1           |
| Ball-Oil Pressure Relief             | AEL1028-B       | 040705                       | 1           |
| Spring-Oil pressure Relief           | AEL61084        | 040705                       | 1           |
| Don't Crankshaft Gear                | AEL-STD-2213    | 011706                       | 1           |
| Nut-Cylinder Base                    | AEL383B         |                              | 16          |
| Nut-Cylinder Base                    | STD-2090        |                              | 16          |
| Gasket-Valve Cover (silicone)        | AEL-75906-062S  |                              | 4           |
| Gasket Set-Major Overhaul            | SL75439-1       |                              | 1           |
| Screw-Rocker Box                     | AEL-102         | 32770                        | 24          |
| Hose -Intake                         | AEL-69603       |                              | 4           |
| Hose-Oil Drainback                   | STD-2180        |                              | 4           |
| Nose Seal                            | LW13792P50      |                              |             |
| Oil Drainback Tube                   | AEL-68759       | 31552-1                      | 1           |
| Oil Drainback Tube                   | AEL-68760       | 31552                        | 1           |
| Oil Drainback Tube                   | AEL-68761       | 31552-3                      | 2           |
| Cylinder Ass'y                       | TISN 4.1CA      | ECI # 41827-10               | 4           |
|                                      |                 | # 41826-19                   |             |
|                                      |                 | # 41442-27                   |             |
|                                      |                 | # 41783-18                   |             |
| Ignition Harness                     | M4001           |                              | 1           |
| <u>Accessories:</u>                  | <u>Part No.</u> | <u>Work Order/Serial No.</u> | <u>Qty:</u> |
| Magneto -Slick                       | 4371            | S/N 05110035 (Max #1917)     | 1           |
| Magneto-Slick                        | 4371            | S/N 05110036 (Max #1918)     | 1           |
| Carburetor                           | 10-5009         | S/N BL2012111                | 1           |

SIGNED: *Michael Wal*

AP# 261338659

N 96172  
06-22-06  
DATE

ENGINE LOG ENTRY  
10276.8 4590.7  
TTE TACH

WO# 19216  
637.9  
SMOH

DATI

MODEL #

SERIAL # L-10513-39A

I certify this ENGINE was inspected in accordance with a 100 HR insp. and was determined to be in Airworthy condition.

SIGNED

CERT# 2732439A

Mid-Florida Air Services, 19708 Eustis Airport Rd., Eustis, FL 32736

N 96172  
07-11-06  
DATE

ENGINE LOG ENTRY  
10375.1 4689.0  
TTE TACH

WO# 19532  
736.2  
SMOH

MODEL #

SERIAL # L-10513-39A

I certify this ENGINE was inspected in accordance with a 100 HR insp. and was determined to be in Airworthy condition.

SIGNED

CERT# 2732439A

Mid-Florida Air Services, 19708 Eustis Airport Rd., Eustis, FL 32736

N96172  
9-18-06  
DATE

ENGINE MAINT. ENTRY

Lycoming Model: O-320-D2J

S/N: L-10513-39A

10467.5

4781.4

828.6

TTE

TACH

SMOH

Engine removed for bad cylinders. I certify that this maintenance has been performed in accordance with manufactures maintenance manuals.

SIGNED

CERT# 2669622 AP

SEE OVA info on op / BACK (NEXT PAGE) →

N96172  
1-14-06  
DATE

9638.9  
TTE

3952.8  
TACH

00.0  
SMOH

Installed OVH'd ENGINE. I certify that this maintenance has been performed in accordance with manufactures maintenance manuals.

DATE TACH  
READING

SIGNED [Signature] CERT# A2P3051738

N 96172  
01-26-06  
DATE

ENGINE LOG ENTRY  
9686.9 4000.8  
TTE TACH

WO# 18360  
48.0  
SMOH  
L-10513-39A

MODEL # \_\_\_\_\_  
I certify this ENGINE was inspected in accordance with a 100 HR insp. and was determined to be in Airworthy condition.

SIGNED [Signature] CERT# 2732439AP

Mid-Florida Air Services, 19708 Eustis Airport Rd., Eustis, FL 32736

ENGINE LOG ENTRY MODEL # O-320-D2J SERIAL # L-10513-39A  
WO# 18729

N96172  
2-21-06  
DATE

9785.0  
TTE

4098.9  
TACH

146.1  
SMOH

I certify this ENGINE was inspected in accordance with 100 HR insp. and a list of discrepancies and unairworthy items dated 2-21-06 has been provided for the aircraft owner D.C.A.

SIGNED [Signature] CERT# A2P277022

N 96172  
03-27-04  
DATE

ENGINE LOG ENTRY  
9883.8 4197.7  
TTE TACH

WO# 18740  
244.9  
SMOH  
L-10513-39A

MODEL # \_\_\_\_\_  
I certify this ENGINE was inspected in accordance with a 100 HR insp. and was determined to be in Airworthy condition.

SIGNED [Signature] CERT# 2732439AP

Mid-Florida Air Services, 19708 Eustis Airport Rd., Eustis, FL 32736

N 96172  
04-19-06  
DATE

ENGINE LOG ENTRY  
9982.1 4216.0  
TTE TACH

WO# 18994  
343.2  
SMOH  
L-10513-39A

MODEL # \_\_\_\_\_  
I certify this ENGINE was inspected in accordance with a 100 HR insp. and was determined to be in Airworthy condition.

SIGNED [Signature] CERT# 2732439AP

Mid-Florida Air Services, 19708 Eustis Airport Rd., Eustis, FL 32736

N 96172  
05-12-06  
DATE

ENGINE LOG ENTRY  
10081.4 4395.3  
TTE TACH

WO# 19178  
442.5  
SMOH  
L-10513-39A

MODEL # \_\_\_\_\_  
I certify this ENGINE was inspected in accordance with a 100 HR insp. and was determined to be in Airworthy condition.

SIGNED [Signature] CERT# 2732439AP

Mid-Florida Air Services, 19708 Eustis Airport Rd., Eustis, FL 32736

ENGINE LOG ENTRY MODEL # O-320-D2J SERIAL # L-10513-39A  
WO# 19215

N96172  
6-4-06  
DATE

10177.4  
TTE

4491.3  
TACH

538.5  
SMOH

I certify this ENGINE was inspected in accordance with 100 HR insp. and a list of discrepancies and unairworthy items dated 6-4-06 has been provided for the aircraft owner D.C.A.

SIGNED [Signature] CERT# AP3026055  
CP

## ENGINE MAINT. ENTRY

Lycoming Model: O-320-D2J

S/N# L-10513-39A

N96172

1-14-06

DATE

9638.9

TTE

3952.8

TACH

00.0

SMOH

Installed OVH'ed ENGINE. I certify that this maintenance has been performed in accordance with manufactures maintenance manuals.

DATE

TACH  
READING

SIGNED

CERT#

AP3051738

N 96172

## ENGINE LOG ENTRY

WO# 18360

01-26-06

DATE

9686.9

TTE

4000.8

TACH

48.0

SMOH

MODEL #

SERIAL #

L-10513-39A

I certify this ENGINE was inspected in accordance with a 100 HR insp. and was determined to be in Airworthy condition.

SIGNED

CERT#

2732439AP

Mid-Florida Air Services, 19708 Eustis Airport Rd., Eustis, FL 32736

## ENGINE LOG ENTRY

MODEL # O-320-D2J

SERIAL # L-10513-39A

N96172

2-21-06

DATE

9785.0

TTE

4098.9

TACH

146.1

SMOH

I certify this ENGINE was inspected in accordance with 100 HR insp. and a list of discrepancies and unairworthy items dated 2-21-06 has been provided for the aircraft owner D.C.A.

SIGNED

CERT#

AP 2777022

N 96172

## ENGINE LOG ENTRY

WO# 18740

03-27-06

DATE

9883.8

TTE

4197.7

TACH

244.9

SMOH

MODEL #

SERIAL #

L-10513-39A

I certify this ENGINE was inspected in accordance with a 100 HR insp. and was determined to be in Airworthy condition.

SIGNED

CERT#

2732439AP

Mid-Florida Air Services, 19708 Eustis Airport Rd., Eustis, FL 32736

N 96172

## ENGINE LOG ENTRY

WO# 18994

04-19-06

DATE

9982.1

TTE

4246.0

TACH

343.2

SMOH

MODEL #

SERIAL #

L-10513-39A

I certify this ENGINE was inspected in accordance with a 100 HR insp. and was determined to be in Airworthy condition.

SIGNED

CERT#

2732439AP

Mid-Florida Air Services, 19708 Eustis Airport Rd., Eustis, FL 32736

N 96172

## ENGINE LOG ENTRY

WO# 19178

05-12-06

DATE

10081.4

TTE

4395.3

TACH

442.5

SMOH

MODEL #

SERIAL #

L-10513-39A

I certify this ENGINE was inspected in accordance with a 100 HR insp. and was determined to be in Airworthy condition.

SIGNED

CERT#

2732439AP

Mid-Florida Air Services, 19708 Eustis Airport Rd., Eustis, FL 32736

## ENGINE LOG ENTRY

MODEL # O-320-D2J

SERIAL # L-10513-39A

N96172

6-4-06

DATE

10177.4

TTE

4491.3

TACH

538.5

SMOH

I certify this ENGINE was inspected in accordance with 100 HR insp. and a list of discrepancies and unairworthy items dated 6-4-06 has been provided for the aircraft owner D.C.A.

SIGNED

CERT#

AP3026053

CP



"O" SMOH

DATE: Jan. 5, 2006

TOTAL TIME: 9638.9

MANUFACTURER:

Lycoming

TACH TIME:

MODEL:

O-320-D2J

SERIAL NUMBER:

L--10513-39A

This engine has been disassembled, cleaned, inspected, repaired, and overhauled in accordance with Lycoming Direct Drive Overhaul Manual #60294-9. All applicable Airworthiness Directive have been complied with during overhaul.

Engine assembled using the following new (unless otherwise noted) parts.

| <u>Description: Overhauled Parts</u> | <u>Part No.</u> | <u>Work Order No.</u>    | <u>Qty:</u> |
|--------------------------------------|-----------------|--------------------------|-------------|
| Crankcase (S/N L-10513-39A)          |                 | ECI # 16613-1Q3          | 1           |
| Crankshaft                           | LW17031         | ECI # 16612-2            | 1           |
| Magnaflux Misc Internal Steel        |                 | Rock # 10231             | 5           |
| Rocker Arms                          | 69444/74636     | Rock # 10231             | 8           |
| Connecting Rods                      | 78030           | ECI # 28744.1            | 4           |
| Hydraulic Units                      | 78290           | Rock # 9300.10           | 8           |
| Tappets                              | 72877           | Rock # 9218              | 8           |
| Camshaft                             | 76097           | Rock # 9948              | 1           |
| Gear-Crankshaft                      | AEL19646P005    | #6                       | 1           |
| <u>Description: New Parts</u>        | <u>Part No.</u> | <u>Lot or Serial No.</u> | <u>Qty:</u> |
| Rod Bolts                            | AEL78027        | 072905                   | 8           |
| Rod Nuts                             | AEL12186        | 071305                   | 8           |
| Rod Bearings                         | AEL69373M03     | 022505                   | 8           |
| Main Bearing                         | AEL-11021M03    | 122704                   | 4           |
| Front Main Bearing                   | AEL-13884M03    | 070805                   | 2           |
| Piston Pins                          | AEL14077-1      | PPA0123-077-1            | 4           |
| Spark Plug                           | URHM-38E        |                          | 8           |
| Vernatherm                           | AEL53E19600     | 122104                   | 1           |
| Ball-Oil Pressure Relief             | AEL1028-B       | 040705                   | 1           |
| Spring-Oil pressure Relief           | AEL161084       | 040705                   | 1           |

| Bolt-Crankshaft Gear          | AEL-STD-2213    | 060205                       | 1           |
|-------------------------------|-----------------|------------------------------|-------------|
| Nut-Cylinder Base             | AEL383B         |                              | 16          |
| Nut-Cylinder Base             | STD-2090        |                              | 16          |
| Gasket-Valve Cover (silicone) | AEL-75906-062S  |                              | 4           |
| Gasket Set-Major Overhaul     | SL75439-1       |                              | 1           |
| Screw-Rocker Box              | AEL-102         | 32770                        | 24          |
| Hose -Intake                  | AEL-69603       | 101305                       | 4           |
| Retainer                      | AEL-71611       |                              | 2           |
| Hook                          | SL-71610        |                              | 2           |
| Hose-Oil Drainback            | STD-2180        |                              | 4           |
| Nose Seal                     | LW13792P50      |                              |             |
| Oil Drainback Tube            | AEL-68759       | 31552-1                      | 1           |
| Oil Drainback Tube            | AEL-68760       | 315552                       | 1           |
| Oil Drainback Tube            | AEL-68761       | 31552-3                      | 2           |
| Cylinder Ass'y                | TISN 4.1CA      | ECI # 34917-24               | 4           |
|                               |                 | #35565-05                    |             |
|                               |                 | #35439-10                    |             |
|                               |                 | #34647-15                    |             |
| Ignition Harness              | M4002           |                              | 1           |
| <u>Accessories:</u>           | <u>Part No.</u> | <u>Work Order/Serial No.</u> | <u>Qty:</u> |
| Magneto -Slick                | 4371            | S/N 05110035                 | 1           |
| Magneto-Slick                 | 4371            | S/N 05110036                 | 1           |
| Carburetor                    | 10-5217         | S/N PAM229421                | 1           |

SIGNED:

*Michael The*

APP 261338659

## ENGINE LOG ENTRY

N 52365

WO# 15729

DATE

11-11-09  
DATE9168.7  
TTE2676.4  
TACH1847.9  
SMOH

F MODEL # SERIAL # L-10513-39A

I certify this ENGINE was inspected in accordance with a 100 HR insp. and was determined to be in Airworthy condition.

SIGNED

CERT# 2732439 1458

Mid-Florida Air Services, 19708 Eustis Airport Rd., Eustis, FL 32736

## ENGINE LOG ENTRY

MODEL # O-320-D2J

SERIAL # L-10513-39A

N52365

WO# 15834

11-28-04

9268.2

2776.1

1947.4

DATE

TTE

TACH

SMOH

I certify this ENGINE was inspected in accordance with 100 HR insp. and a list of discrepancies and unairworthy items dated 11-28-04 has been provided for the aircraft owner D.C.A.

SIGNED

CERT# AP 2681295

N52365

## ENGINE LOG

MODEL O-320-D2J

SERIAL# L-10513-39A

DATE 11-09-04

SMOH TACH: 2035.5

TTE 9356.3

WO# 15930-12

TACH 2864.2

Replaced #1, #3, &amp; #4 cylinders with IRAN'ed assys. IAW O/H manual #60294-7 Textron Lycoming Direct Drive Aircraft Eng., Sec. 6-1 thru 6-24. For details see work order.

SIGNED  
edgar

CERT# AP 264131743

## ENGINE LOG ENTRY

N 52365

WO# 15883

12-30-04  
DATE9367.2  
TTE2875.1  
TACH2096.4  
SMOH

MODEL # O-320-D2J SERIAL # L-10513-39A

I certify this ENGINE was inspected in accordance with a 100 HR insp. and was determined to be in Airworthy condition.

SIGNED

CERT# 2732439 1458

Mid-Florida Air Services, 19708 Eustis Airport Rd., Eustis, FL 32736

N52365

Date 1-20-05

## MAINTENANCE LOG ENTRY

WO# 16202-5

NEW TACH: 000.0

OLD TACH: 2964.3

time in service since last insp.: 89.2

Replaced tach with NEW Tach. P/N D1-112-6023 S/N 24068.

SIGN  
BT

CERT# 37382970 1A

## ENGINE LOG ENTRY

MODEL # O-320-D2J

SERIAL # L-10513-39A

N52365

WO# 16183

1-22-05

9466.1

9.7

2145.3

DATE

TTE

TACH

SMOH

I certify this ENGINE was inspected in accordance with 100 HR insp. and a list of discrepancies and unairworthy items dated 11-28-04 has been provided for the aircraft owner D.C.A.

SIGNED

CERT# AIP 2851991

## ENGINE LOG ENTRY

MODEL # O-320-D2J

SERIAL # L-10513-39A

N52365

WO# 16327

2-15-05

9565.9

109.5

2245.1

DATE

TTE

TACH

SMOH

I certify this ENGINE was inspected in accordance with 100 HR insp. and a list of discrepancies and unairworthy items dated 11-28-04 has been provided for the aircraft owner D.C.A.

SIGNED

CERT# 27766055AEP

GR

## ENGINE MAINT. ENTRY

Lycoming Model: O-320-D2J S/N L-10513-39A

N52365

WO# 16566

3-8-05

9638.9

182.5

2318.1

DATE

TTE

TACH

SMOH

Engine removed for OVH. I certify that this maintenance has been performed in accordance with manufactures maintenance manuals.

SIGNED

CERT# 269622 AP

## ENGINE LOG ENTRY

MODEL # O-320-D2J

SERIAL # L-10513-39A

N52365

WO# 14601

5-12-04

8385.7

1893.6

1064.9

DATE

TTE

TACH

SMOH

DATE

I certify this ENGINE was inspected in accordance with 100 HR insp. and was determined to be in Airworthy condition.

SIGNED  
GH

CERT# 59254643 Hap

## ENGINE LOG ENTRY

MODEL # O-320-D2J

SERIAL # L-10513-39A

N52365

WO# 14748

5-29-04

8478.4

1986.3

1157.6

DATE

TTE

TACH

SMOH

I certify this ENGINE was inspected in accordance with 100 HR insp. and was determined to be in Airworthy condition.

SIGNED  
trey

CERT# DP2715271

## ENGINE LOG ENTRY

MODEL # O-320-D2J

SERIAL # L-10513-39A

N52365

WO# 14803

6-19-04

8576.7

2084.6

1255.9

DATE

TTE

TACH

SMOH

I certify this ENGINE was inspected in accordance with 100 HR insp. and a list of discrepancies and unairworthy items dated 6-19-04 has been provided for the aircraft owner D.C.A.

SIGNED  
Jason

CERT# AP2759266

## ENGINE LOG ENTRY

MODEL # O-320-D2J

SERIAL # L-10513-39A

N52365

WO# 15037

7-16-04

8674.4

2182.3

1353.6

DATE

TTE

TACH

SMOH

I certify this ENGINE was inspected in accordance with 100 HR insp. and a list of discrepancies and unairworthy items dated 7-16-04 has been provided for the aircraft owner D.C.A.

SIGNED

CERT# AP2777022

## ENGINE LOG ENTRY

WO# 15149

N 52365  
8-17-04

8774.02281.9

1453.2

DATE

TTE

TACH

SMOH

MODEL #

SERIAL # L-10513-39A

I certify this ENGINE was inspected in accordance with a 100 HR insp. and was determined to be in Airworthy condition.

SIGNED

CERT# 348348416

Mid-Florida Air Services, 19708 Eustis Airport Rd., Eustis, FL 32736

## ENGINE LOG ENTRY

MODEL # O-320-D2J

SERIAL # L-10513-39A

N52365

WO# 15396

9-17-03

8872.5

2380.4

1551.7

DATE

TTE

TACH

SMOH

I certify this ENGINE was inspected DURING an ANNUAL Insp.

SIGNED

CERT# AP2446461546

## ENGINE LOG ENTRY

MODEL # O-320-D2J

SERIAL # L-10513-39A

N52365

WO# 15388

10-8-04

8971.0

2278.9

1650.2

DATE

TTE

TACH

SMOH

I certify this ENGINE was inspected in accordance with 100 HR insp. and a list of discrepancies and unairworthy items dated 10-8-04 has been provided for the aircraft owner D.C.A.

SIGNED

CERT# AP2777022

## ENGINE LOG ENTRY

MODEL # O-320-D2J

SERIAL # L-10513-39A

N52365

WO# 15643

10-25-04

9069.5

2577.4

1748.7

DATE

TTE

TACH

SMOH

I certify this ENGINE was inspected in accordance with 100 HR insp. and a list of discrepancies and unairworthy items dated 10-8-04 has been provided for the aircraft owner D.C.A.

SIGNED  
M. VI

CERT# AP10427903

## ENGINE LOG ENTRY

N 52365  
12-9-03  
DATE

7612.5 1120.6  
TTE TACH

WO# 13151  
291.7  
SMOH

MODEL # SERIAL # L-10513-39A

I certify this ENGINE was inspected in accordance with a 100 HR insp. and was determined to be in Airworthy condition.

SIGNED John Chen CERTs# 248348986

Mid-Florida Air Services, 19708 Eustis Airport Rd., Eustis, FL 32736

ENGINE LOG ENTRY MODEL # O-320-D2J SERIAL # L-10513-39A  
WO# 13225

N52365  
12-28-03  
DATE

7710.9 1219.0 390.1  
TTE TACH SMOH

I certify this ENGINE was inspected in accordance with 100 HR insp. and a list of discrepancies and unairworthy items dated 12-28-03 has been provided for the aircraft owner D.C.A.

SIGNED Chad O. Chub CERTs# 2757285

## ENGINE LOG ENTRY

N 52365  
1-16-04  
DATE

7810.3 1318.4  
TTE TACH/TS

WO# 13415  
489.5  
SMOH

MODEL # O-320-D2J

SERIAL # L-10513-39A

I certify this ENGINE was inspected in accordance with a 100 HR insp. and was determined to be in Airworthy condition. Aircraft is approved for return to service. See work packet for details of discrepancies provided to C.A.A.

SIGNED Roger Senzer CERTs# 264730121 AP

ENGINE LOG ENTRY MODEL # O-320-D2J SERIAL # L-10513-39A  
WO# 13619

N52365  
2-2-04  
DATE

7900.0 1408.1 579.2  
TTE TACH SMOH

I certify this ENGINE was inspected in accordance with 100 HR insp. and a list of discrepancies and unairworthy items dated 2-2-04 has been provided for the aircraft owner D.C.A.

SIGNED Chad O. Chub CERTs# AP 2777285

ENGINE LOG ENTRY MODEL # O-320-D2J SERIAL # L-10513-39A  
WO# 13885

N52365  
3-1-04  
DATE

7996.6 1504.7 675.8  
TTE TACH SMOH

I certify this ENGINE was inspected in accordance with 100 HR Insp. and was determined to be in Airworthy condition.

SIGNED Jason Pockings CERTs# AP 2759266

ENGINE LOG ENTRY MODEL # O-320-D2J SERIAL # L-10513-39A

N52365  
3-17-04  
DATE

8095.7 1603.8 774.9  
TTE TACH SMOH

I certify this ENGINE was inspected in accordance with 100 HR Insp. and a list of discrepancies and unairworthy items dated 3-17-04 has been provided for the aircraft owner D.C.A.

SIGNED Paul Mudge CERTs# AP 2777022

ENGINE LOG ENTRY MODEL # O-320-D2J SERIAL # L-10513-39A  
WO# 13411

N52365  
4-1-04  
DATE

8189.6 1697.7 868.8  
TTE TACH SMOH

I certify this ENGINE was inspected in accordance with 100 HR Insp. and was determined to be in Airworthy condition.

SIGNED M. Vi CERTs# AP 101487903

ENGINE LOG ENTRY MODEL # O-320-D2J SERIAL # L-10513-39A  
WO# 14489

N52365  
4-22-04  
DATE

8286.8 1794.9 966.0  
TTE TACH SMOH

I certify this ENGINE was inspected in accordance with 100 HR insp. and was determined to be in Airworthy condition.

SIGNED NASH CERTs# 4-2771002

"O" SMOH  
MANUFACTURER: Lycoming  
MODEL: O-320-D2J  
SERIAL NUMBER: L-10513-39A

TOTAL TIME: 7220.8  
TACH TIME:

This engine has been disassembled, cleaned, inspected, repaired, and overhauled in accordance with Lycoming Direct Drive Overhaul Manual #60294-9. All applicable Airworthiness Directive have been complied with during overhaul.

Engine assembled using the following new (unless otherwise noted) parts.

Description: Overhauled Parts

Crankcase (S/N L-10513-39A)  
Crankshaft  
Magnaflux Misc Internal Steel  
Rocker Arms  
Connecting Rods  
Hydraulic Units

Part No.

LW17031  
69444/74636  
78030  
78290

Work Order No.

Divco # WDC-83651  
ECI # 6935-1  
Rock # 9218  
Rock # 9218  
ECI # 15150.1  
Rock # 9165.6

Qty:

1  
1  
5  
8  
4  
8

Description: New Parts

Rod Bolts  
Rod Nuts  
Camshaft  
Tappets  
Rod Bearings  
Main Bearing  
Front Main Bearing

Part No.

AEL78027  
AEL12186  
AEL18840  
AEL72877  
SL61662  
AEL-11021  
AEL-13884

Lot or Serial No.

44109  
3154.0  
ECI # 14131  
ECI # 14131

Qty:

8  
8  
1  
8  
8  
4  
2

MG

See LOG 2 for OVH

ENGINE MAINT. ENTRY  
N52365  
9/4/03 7220.8 728.9  
DATE TTE TACH/TTS  
Lycoming Model: O-320-D2J S/N RL-10513-39A  
WO# 00.0  
SMOH  
Installed OVH ENGINE. I certify that this maintenance has been performed in accordance with manufactures maintenance manuals. Aircraft is approved for return to service.

SIGNED *[Signature]* CERT# A-P 295700283

ENGINE LOG ENTRY  
N52365  
9-13-03 7221.2 729.3 000.4  
DATE TTE TACH SMOH  
MODEL # O-320-D2J SERIAL # L-10513-39A  
WO# 12140  
I certify this ENGINE was inspected DURING an ANNUAL Insp.

SIGNED *[Signature]* CERT# 1A 44464008

ENGINE LOG ENTRY  
N52365  
10-7-03 7318.9 827.0 98.1  
DATE TTE TACH SMOH  
MODEL # O-320-D2J SERIAL # L-10513-39A  
WO# 12508  
I certify this ENGINE was inspected in accordance with 100 HR Insp. and a list of discrepancies and unairworthy items dated 10-7-03 has been provided for the aircraft owner D.C.A.

SIGNED *[Signature]* CERT# *[Signature]*

ENGINE LOG ENTRY  
N52365  
10-31-03 7417.1 925.2 196.3  
DATE TTE TACH SMOH  
MODEL # O-320-D2J SERIAL # L-10513-39A  
WO# 12649  
I certify this ENGINE was inspected in accordance with 100 HR Insp. and a list of discrepancies and unairworthy items dated 10-31-03 has been provided for the aircraft owner D.C.A.

SIGNED *[Signature]* CERT# AEP 65481510

ENGINE LOG ENTRY  
N52365  
11-21-03 7512.3 1020.4 291.5  
DATE TTE TACH SMOH  
MODEL # O-320-D2J SERIAL # L-10513-39A  
WO# 12914  
I certify this ENGINE was inspected in accordance with 100 HR Insp. and a list of discrepancies and unairworthy items dated 11-21-03 has been provided for the aircraft owner D.C.A.

SIGNED *[Signature]* CERT# AP1048793



*The Standard*  
**ENGINE LOG**

ASA/SE-2

| DATE<br>19__ | RECORDING<br>TACH<br>TIME | TODAYS<br>FLIGHT | TOTAL<br>TIME IN<br>SERVICE | DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS<br>ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF<br>MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.) |
|--------------|---------------------------|------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|--------------|---------------------------|------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

May 30, 2003 Tach 5542.0

1. Changed oil with 8 qts aeroshell W100.
2. Replaced oil filter.
3. Cleaned and rotated plugs.
4. Serviced battery.
5. Compression #1=70, #2=75, #3=65, #4=74

I certify that this engine has been inspected in accordance with a 100 hr inspection and was determined to be airworthy. Elgin Lee A&P427862491

*Elgin Lee*

August 4, 2003 Tach 5623.4

Engine removed for overhaul

*Elgin Lee A&P427862491*

| DATE<br>2001<br>19                                                                                                                                                       | RECORDING<br>TACH<br>TIME | TODAYS<br>FLIGHT | TOTAL<br>TIME IN<br>SERVICE | DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS<br>ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF<br>MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.) |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5-1                                                                                                                                                                      | 393.4                     |                  | 2887.6<br>SMOH              | C/w 100 hour inspection lubric<br>engine controls, wash engine down<br>Ch. oil & Filter. Compression<br>all above 20/80. Ran up no<br>leaks return to service.                                                  |
| DATE 5-1-01                                                                                                                                                              | HOBBS                     | TACH 393.4       | TOTAL TIME 2887.6           |                                                                                                                                                                                                                 |
| "I certify that this <del>ANNUAL</del> ENGINE has been inspected<br>in accordance with an ANNUAL/100 Hr. Inspection and was<br>determined to be in airworthy condition." |                           |                  |                             |                                                                                                                                                                                                                 |
| SIGNATURE <u>Lanny A. Cef</u>                                                                                                                                            |                           |                  |                             |                                                                                                                                                                                                                 |
| CERTIFICATE NUMBER <u>IA903224835</u>                                                                                                                                    |                           |                  |                             |                                                                                                                                                                                                                 |

| DATE<br>2002<br>19                                                                                                  | RECORDING<br>TACH<br>TIME | TODAYS<br>FLIGHT | TOTAL<br>TIME IN<br>SERVICE | DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS<br>ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF<br>MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.) |
|---------------------------------------------------------------------------------------------------------------------|---------------------------|------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6-14                                                                                                                | 404.1                     |                  | 7015.3                      | THIS ENGINE REMOVED FROM CESSNA 172-P11<br>S/N 172-74429 N52186 THIS DATE WITH<br>A TOTAL TIME OF 7015.3 AND 2898.3 SMOH.<br><u>Thomas W. Auerford</u>                                                          |
| March 10, 2003 Tach 5417.9 Engine installed on Cessna 172M S/N 17261915.<br>Elgin Lee A&P427862491 <u>Elgin Lee</u> |                           |                  |                             |                                                                                                                                                                                                                 |
| 2003<br>MAR 28                                                                                                      | 5447.0                    |                  |                             | C/w 100 Hour Inspection Lubed Engine &<br>Controls changed oil & Filter Compression 76 2 3 4<br>Ran up no leaks Return to Service.<br>David R Thrift A&P #2673967 D1 RT4                                        |



[illegible][illegible]

| DATE<br>19 <u>96</u>                                                                                                                                            | RECORDING<br>TACH<br>TIME | TODAYS<br>FLIGHT   | TOTAL<br>TIME IN<br>SERVICE | DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS<br>ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF<br>MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|--------------------|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 12-04                                                                                                                                                           | 2555.2                    |                    | 2328.1                      | C/w 100 hour inspection. Cleaned<br>and Gapped Spark plugs, replace<br>all four Valve Covers, repld<br>Muffler from Aerospace Welding<br><del>and</del> oil pump seals are N/A<br>from AD. Pump Seal P/N SL18109-5 |
| DATE <u>2/4/96</u>                                                                                                                                              | HOBBS                     | TACH <u>2555.2</u> | TOTAL TIME <u>2328.1</u>    |                                                                                                                                                                                                                    |
| "I certify that this AIRCRAFT/ENGINE has been inspected<br>in accordance with an <u>100</u> hr. inspection and was<br>determined to be in airworthy condition." |                           |                    |                             |                                                                                                                                                                                                                    |
| SIGNATURE <u>Jimmy A. Cuf</u>                                                                                                                                   |                           |                    |                             |                                                                                                                                                                                                                    |
| CERTIFICATE NUMBER <u>RP40372487-5A</u>                                                                                                                         |                           |                    |                             |                                                                                                                                                                                                                    |

| DATE<br>19 <u>97</u>                                                                                                                                            | RECORDING<br>TACH<br>TIME | TODAYS<br>FLIGHT   | TOTAL<br>TIME IN<br>SERVICE | DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS<br>ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF<br>MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.) |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|--------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2-19                                                                                                                                                            | 2655.7                    |                    | 2428.6                      | C/w 100 hour inspection, Cleaned and<br>Gapped Plugs, Repld Valve Covers.<br>Comp. ① $\frac{3}{8}$ ③ $\frac{7}{8}$ ② $\frac{7}{8}$ ④ $\frac{1}{8}$<br>Chg. oil and Filter                                       |
| DATE <u>2/19/97</u>                                                                                                                                             | HOBBS                     | TACH <u>2655.7</u> | TOTAL TIME <u>2428.6</u>    |                                                                                                                                                                                                                 |
| "I certify that this AIRCRAFT/ENGINE has been inspected<br>in accordance with an <u>100</u> hr. inspection and was<br>determined to be in airworthy condition." |                           |                    |                             |                                                                                                                                                                                                                 |
| SIGNATURE <u>Jimmy A. Cuf</u>                                                                                                                                   |                           |                    |                             |                                                                                                                                                                                                                 |
| CERTIFICATE NUMBER <u>RP40372487-5A</u>                                                                                                                         |                           |                    |                             |                                                                                                                                                                                                                 |

| DATE<br>19 <u>96</u>                                                                                                                                                                                                                                                                                                         | RECORDING<br>TACH<br>TIME | TODAYS<br>FLIGHT | TOTAL<br>TIME IN<br>SERVICE | DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS<br>ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF<br>MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)           |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|------------------|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4/1                                                                                                                                                                                                                                                                                                                          | 2358.4                    |                  |                             | C/w Annual inspection. Compressions all 78/80<br>OR better. Cleaned, gapped, rotated SPARK<br>plugs. Change oil filter and oil. Replace<br>Air filter. A.D. 93-18-03 P/c/w see entry<br>5-9-93. Ran engine, Leak checked. |
| DATE <u>6/1</u> HOBBS _____ TACH <u>2358</u> TOTAL TIME <u>2130.9</u> smolt<br>"I certify that this AIRCRAFT/ENGINE has been inspected<br>in accordance with an <u>ANNUAL</u> inspection and was<br>determined to be in airworthy condition."<br>SIGNATURE <u>James A. Carl</u><br>CERTIFICATE NUMBER <u>AP40372 4839 JA</u> |                           |                  |                             |                                                                                                                                                                                                                           |

| DATE<br>19 <u>96</u>                                                                                                                                                                                                                                                                                                            | RECORDING<br>TACH<br>TIME | TODAYS<br>FLIGHT | TOTAL<br>TIME IN<br>SERVICE | DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS<br>ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF<br>MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.) |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 8/10                                                                                                                                                                                                                                                                                                                            | 2464.3                    |                  | 2237.2<br>SMOH              | C/w 100hr inspection, Chg oil, filter<br>performed Compression test, lowest<br>Cyl. was 78/80. Repld. Air filter<br>Clean and Crapped Plugs.                                                                    |
| DATE <u>9/10</u> HOBBS _____ TACH <u>2464</u> TOTAL TIME <u>2237.2</u><br>"I certify that this AIRCRAFT/ENGINE has been inspected<br>in accordance with an <u>ANNUAL</u> 100 Hr. inspection and was<br>determined to be in airworthy condition."<br>SIGNATURE <u>James A. Carl</u><br>CERTIFICATE NUMBER <u>AP40372 4839 JA</u> |                           |                  |                             |                                                                                                                                                                                                                 |

| DATE<br>19 <u>95</u>                                                                                                                                           | RECORDING<br>TACH<br>TIME | TODAYS<br>FLIGHT   | TOTAL<br>TIME IN<br>SERVICE | DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS<br>ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF<br>MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.) |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|--------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 11/08                                                                                                                                                          | 2090.2                    |                    |                             | Chgs 100 hr on engine. Compressions all<br>73/80 or better. Change oil & filter. Replace<br>air filter. Clean, gapp, rotate spark plugs.<br>C/w 93-18-03 by inspection. Wash engine<br>down & leak checked.     |
| DATE <u>11/08/95</u>                                                                                                                                           | HOBBS                     | TACH <u>2090.2</u> | TOTAL TIME <u>1862.7</u>    | SMOH                                                                                                                                                                                                            |
| I certify that this AIRCRAFT ENGINE has been inspected<br>in accordance with a <u>100 HR</u> inspection and was<br>determined to be in an airworthy condition. |                           |                    |                             |                                                                                                                                                                                                                 |
| SIGNATURE <u>Larry A. Cal</u>                                                                                                                                  |                           |                    |                             |                                                                                                                                                                                                                 |
| CERTIFICATE NUMBER <u>AP403224839</u>                                                                                                                          |                           |                    |                             |                                                                                                                                                                                                                 |

| DATE<br>19 <u>96</u>                                                                                                                             | RECORDING<br>TACH<br>TIME | TODAYS<br>FLIGHT | TOTAL<br>TIME IN<br>SERVICE | DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS<br>ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF<br>MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.) |
|--------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2-8                                                                                                                                              | 2189.6                    |                  | 1960.1                      |                                                                                                                                                                                                                 |
| Date <u>2-8-96</u> SMOH <u>1960.1</u> Hobbs/Tach <u>2189.6</u>                                                                                   |                           |                  |                             |                                                                                                                                                                                                                 |
| I certify that this <u>ENG</u> has been inspected<br>in accordance with a <u>100 HR</u> inspection and<br>found to be in an airworthy condition. |                           |                  |                             |                                                                                                                                                                                                                 |
| Signed <u>[Signature]</u> PDP 1453060                                                                                                            |                           |                  |                             |                                                                                                                                                                                                                 |
| 4-5                                                                                                                                              | 2284.9                    |                  | 2055.1                      |                                                                                                                                                                                                                 |
| Date <u>4-5-96</u> T/T <u>2055.1</u> SMOH Hobbs/Tach <u>2284.9</u>                                                                               |                           |                  |                             |                                                                                                                                                                                                                 |
| I certify that this <u>ENG</u> has been inspected<br>in accordance with a <u>100 HR</u> inspection and<br>found to be in an airworthy condition. |                           |                  |                             |                                                                                                                                                                                                                 |
| Signed <u>[Signature]</u> PDP 1453060                                                                                                            |                           |                  |                             |                                                                                                                                                                                                                 |

| DATE<br>19 <u>95</u>                                                                                                                                                                                                                                                                                                                                         | RECORDING<br>TACH<br>TIME | TODAYS<br>FLIGHT | TOTAL<br>TIME IN<br>SERVICE | DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS<br>ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF<br>MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.) |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4/24                                                                                                                                                                                                                                                                                                                                                         | 1891.7                    |                  |                             | Clw 100 hr. Compression all 75/80 or<br>better. Change oil & filter. Cleaned, gapped,<br>rotated spark plugs. Replace air filter.<br>Wash engine down. Rck up & leak checked                                    |
| DATE <u>4/24/95</u> HOBBS _____ TACH <u>1891.7</u> TOTAL TIME <u>1664.2</u><br>"I certify that this <del>AIRCRAFT</del> <u>ENGINE</u> has been inspected<br>in accordance with an <del>ANNUAL</del> <u>100 Hr.</u> inspection and was<br>determined to be in airworthy condition."<br>SIGNATURE <u>Larry D. Cat</u><br>CERTIFICATE NUMBER <u>AP403724839</u> |                           |                  |                             |                                                                                                                                                                                                                 |

| DATE<br>19 <u>95</u>                                                                                                                                                                                                                                                                                                                                             | RECORDING<br>TACH<br>TIME | TODAYS<br>FLIGHT | TOTAL<br>TIME IN<br>SERVICE | DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS<br>ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF<br>MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|------------------|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 9/7                                                                                                                                                                                                                                                                                                                                                              | 1989.0                    |                  |                             | Clw 100 hr. Compressions all 75/80 or better.<br>Change oil & filter. Replaced spark plugs.<br>with new. Replaced Air filter. Remove<br>carb & replace discharge tube and float assembly.<br>Reinstalled and leak checked. |
| DATE <u>9/7/95</u> HOBBS _____ TACH <u>1989.0</u> TOTAL TIME <u>1761.5</u> smon<br>"I certify that this <del>AIRCRAFT</del> <u>ENGINE</u> has been inspected<br>in accordance with an <del>ANNUAL</del> <u>100 Hr.</u> inspection and was<br>determined to be in airworthy condition."<br>SIGNATURE <u>Larry D. Cat</u><br>CERTIFICATE NUMBER <u>AP403724839</u> |                           |                  |                             |                                                                                                                                                                                                                            |

| DATE<br>19 <u>95</u>                                                                                                                                                | RECORDING<br>TACH<br>TIME | TODAYS<br>FLIGHT    | TOTAL<br>TIME IN<br>SERVICE | DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS<br>ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF<br>MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.) |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|---------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3/17                                                                                                                                                                | 1724.6                    |                     |                             | Ran engine. Compression test all 75/80 or better. Change oil and filter. Replaced with 7 qts Aeroshell. Changed air filter. Cleaned, gapped, rotated spark plugs. Wash engine down, ran up and leak checked.    |
| DATE <u>3/17/95</u>                                                                                                                                                 | HOBBS <u>724.6</u>        | TACH <u>1497.10</u> | TOTAL TIME <u>5 smott</u>   |                                                                                                                                                                                                                 |
| "I certify that this AIRCRAFT <u>ENGINE</u> has been inspected in accordance with <u>100 HR</u> inspection and was determined to be in <u>airworthy</u> condition." |                           |                     |                             |                                                                                                                                                                                                                 |
| SIGNATURE <u>L. J. Cox</u>                                                                                                                                          |                           |                     |                             |                                                                                                                                                                                                                 |
| CERTIFICATE NUMBER <u>AP403724839</u>                                                                                                                               |                           |                     |                             |                                                                                                                                                                                                                 |

| DATE<br>19 <u>95</u>                                                                                                                                                   | RECORDING<br>TACH<br>TIME | TODAYS<br>FLIGHT   | TOTAL<br>TIME IN<br>SERVICE | DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS<br>ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF<br>MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|--------------------|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5/1                                                                                                                                                                    | 1792.0                    |                    |                             | C/W Annual inspection. Compressions all 78/80. Change oil and filter. Serviced with 7 qts Aeroshell. Replace air filter. Cleaned, gapped, rotate plugs. Wash engine down and ran up. Leak check, Return to Service. |
| DATE <u>5/1/95</u>                                                                                                                                                     | HOBBS <u>1792.0</u>       | TACH <u>1564.5</u> | TOTAL TIME <u>5 smott</u>   |                                                                                                                                                                                                                     |
| "I certify that this AIRCRAFT <u>ENGINE</u> has been inspected in accordance with an <u>ANNUAL</u> inspection and was determined to be in <u>airworthy</u> condition." |                           |                    |                             |                                                                                                                                                                                                                     |
| SIGNATURE <u>L. J. Cox</u>                                                                                                                                             |                           |                    |                             |                                                                                                                                                                                                                     |
| CERTIFICATE NUMBER <u>AP403724839 IA</u>                                                                                                                               |                           |                    |                             |                                                                                                                                                                                                                     |



[illegible][illegible]

DATE 8/10/41 HOBBS      TACH 142.1 TOTAL TIME 120.6

"I certify that this AIRCRAFT ENGINE has been inspected in accordance with an ANNUAL 100 Hr. inspection and was determined to be in airworthy condition."

SIGNATURE Manoj C Ch  
CERTIFICATE NUMBER 1890372435

| DATE<br>19 <u>93</u>                                                                                                                                           | RECORDING<br>TACH<br>TIME | TODAYS<br>FLIGHT | TOTAL<br>TIME IN<br>SERVICE | DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS<br>ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF<br>MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.) |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 12-27                                                                                                                                                          | 1198.0                    | Smott            | 970.5                       | Clw 100 hr on engine. Ran up - change oil<br>and filter. Compressions all 70/80 or better.<br>Replaced Air filter. Cleaned, gapped, rotated<br>spark plugs. Wash engine down and<br>leak checked.               |
| DATE <u>12/27/93</u> HOBBS _____ TACH <u>1198.0</u> TOTAL TIME <u>970.5</u> Smott                                                                              |                           |                  |                             |                                                                                                                                                                                                                 |
| "I certify that this AIRCRAFT ENGINE has been inspected<br>in accordance with an ANNUAL 100 HR inspection and was<br>determined to be in airworthy condition." |                           |                  |                             |                                                                                                                                                                                                                 |
| SIGNATURE <u>[Signature]</u>                                                                                                                                   |                           |                  |                             |                                                                                                                                                                                                                 |
| CERTIFICATE NUMBER <u>AP403724839IA</u>                                                                                                                        |                           |                  |                             |                                                                                                                                                                                                                 |

| DATE<br>19 <u>94</u>                                                                                                                                           | RECORDING<br>TACH<br>TIME | TODAYS<br>FLIGHT | TOTAL<br>TIME IN<br>SERVICE | DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS<br>ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF<br>MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)                                                                                                                                 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|------------------|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4-1                                                                                                                                                            | 1235.0                    |                  |                             | Clw Annual inspection. Removed engine due to<br>firewall damage. See Airframe logbook.<br>Replaced engine. Riggid controls. Compressions<br>all 75/80 or better. Cleaned, gapped, rotated<br>spark plugs. Changed Air filter. Replaced<br>scat hose. Change oil and filter. Wash<br>engine down, ran up and leak checked.<br>Return to Service. |
| DATE <u>4/1/94</u> HOBBS _____ TACH <u>1235.0</u> TOTAL TIME <u>1007.5</u> Smott                                                                               |                           |                  |                             |                                                                                                                                                                                                                                                                                                                                                 |
| "I certify that this AIRCRAFT ENGINE has been inspected<br>in accordance with an ANNUAL 100 Hr inspection and was<br>determined to be in airworthy condition." |                           |                  |                             |                                                                                                                                                                                                                                                                                                                                                 |
| SIGNATURE <u>[Signature]</u>                                                                                                                                   |                           |                  |                             |                                                                                                                                                                                                                                                                                                                                                 |
| CERTIFICATE NUMBER <u>AP403724839IA</u>                                                                                                                        |                           |                  |                             |                                                                                                                                                                                                                                                                                                                                                 |

[illegible]

| DATE<br>19 <u>93</u> | RECORDING<br>TACH<br>TIME | TODAYS<br>FLIGHT   | TOTAL<br>TIME IN<br>SERVICE | DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS<br>ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF<br>MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)                                                                               |
|----------------------|---------------------------|--------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 11-9                 | 1096.0                    |                    |                             | <p>9/w 100 hr. inspection. Ran engine -<br/>Compressions All 75/80 or better. Change oil<br/>And filter. Replaced with 8 qts. Acrosnell<br/>50 W. Replaced Air filter, all new<br/>RHM38E spark plugs. Washed engine<br/>down - Ran up - And leak checked.</p>                                |
| DATE <u>11/9/93</u>  | HOBBS                     | TACH <u>1096.0</u> | TOTAL TIME                  | <p>"I certify that this <del>AIRCRAFT</del> <u>ENGINE</u> has been inspected<br/>in accordance with an <del>ANAL</del> <u>100 Hr.</u> inspection and was<br/>determined to be in airworthy condition."</p> <p>SIGNATURE <u>Larry A. Cat</u></p> <p>CERTIFICATE NUMBER <u>AP 403224839</u></p> |

| DATE<br>19 <u>93</u> | RECORDING<br>TACH<br>TIME | TODAYS<br>FLIGHT | TOTAL<br>TIME IN<br>SERVICE | DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS<br>ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF<br>MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------------|---------------------------|------------------|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6/20                 | 683.0                     |                  |                             | Oil Change This DATE - 8 qts of<br>Aeroshell 100AD 50 wt oil -<br><i>for the owner</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 7-2                  | 726.8                     |                  | 499.3                       | SMOH<br>7-2-93 499.3 SMOH 726.8<br>certify this <u>ENG</u> has been inspected in accordance<br>with a <u>100 HR</u> Insp and found to be in <u>airworthy</u><br>condition at this time. All applicable A.D.'s listed in<br><u>BACK</u> of the log book<br>Sign <u>W. J. L. L.</u> No <u>AP 403724839</u><br>CHANGED OIL 50 W DETERGENT<br>CHANGED OIL FILTER<br>CLEANED & CHECKED SPARK PLUGS<br><br>DATE <u>      </u> HOBBS <u>      </u> TACH <u>      </u> TOTAL TIME <u>      </u><br>"I certify that this AIRCRAFT/ENGINE has been inspected<br>in accordance with an <u>ANNUAL</u> 100 Hr. Inspection and was<br>determined to be in airworthy condition."<br>SIGNATURE <u>      </u><br>CERTIFICATE NUMBER <u>      </u> |

| DATE<br>19 <u>93</u> | RECORDING<br>TACH<br>TIME | TODAYS<br>FLIGHT | TOTAL<br>TIME IN<br>SERVICE | DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS<br>ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF<br>MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)                                                                                                                                                                                                                                                                                          |
|----------------------|---------------------------|------------------|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                      |                           |                  |                             | DATE <u>7/1/93</u> HOBBS <u>      </u> TACH <u>822.0</u> TOTAL TIME <u>599.50</u><br>"I certify that this AIRCRAFT/ENGINE has been inspected<br>in accordance with an <u>ANNUAL</u> 100 Hr. Inspection and was<br>determined to be in airworthy condition."<br>SIGNATURE <u>Harry A. Cox</u><br>CERTIFICATE NUMBER <u>AP 403724839</u>                                                                                                                                                                   |
| 9-2                  | 926.0                     |                  |                             | oil 100 hr. Compressions All 76/80 or<br>better. Change oil & filter. Cleaned,<br>gapped, rotated plugs. Replace oil filter.<br>Ran up & leak checked.<br><br>DATE <u>9/2/93</u> HOBBS <u>      </u> TACH <u>926.0</u> TOTAL TIME <u>698.5</u> SMOH<br>"I certify that this AIRCRAFT/ENGINE has been inspected<br>in accordance with an <u>ANNUAL</u> 100 Hr. Inspection and was<br>determined to be in airworthy condition."<br>SIGNATURE <u>Harry A. Cox</u><br>CERTIFICATE NUMBER <u>AP 403724839</u> |

| DATE<br>19 <u>93</u> | RECORDING<br>TACH<br>TIME | TODAYS<br>FLIGHT | TOTAL<br>TIME IN<br>SERVICE | DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS<br>ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF<br>MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)                                                                                                                                    |
|----------------------|---------------------------|------------------|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5-9                  | 531.0                     |                  | 531.0                       | <p>4w 100 hr inspection. Changed oil &amp; filters. Cleaned, gapped, rotated spark plugs. Replace air filter. Replaced venturis with one piece Venturi S.B. MSA-2. Stamped "V" per service bulletin. Install carb and run up and leak checked. All compressions 75/80 or above.</p>                                                                |
| 5/9/93               |                           |                  |                             | <p>DATE <u>5/9/93</u> HOBBS TACH <u>531.0</u> TOTAL TIME <u>303.55</u> smolt</p> <p>"I certify that this <u>AIRCRAFT/ENGINE</u> has been inspected in accordance with an <u>ANNUAL (100 hr)</u> inspection and was determined to be in airworthy condition."</p> <p>SIGNATURE <u>Larry A. Col</u></p> <p>CERTIFICATE NUMBER <u>AP403724839</u></p> |

| DATE<br>19 <u>93</u> | RECORDING<br>TACH<br>TIME | TODAYS<br>FLIGHT | TOTAL<br>TIME IN<br>SERVICE | DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS<br>ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF<br>MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)                                                                                                                                                                                                                                                                                          |
|----------------------|---------------------------|------------------|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5-25                 | 580.0                     |                  |                             | <p>Changed oil and filter. Serviced with 7 qts Aeroshell. Run up and leak checked.</p> <p><u>Larry A. Col</u><br/><u>AP403724839</u></p>                                                                                                                                                                                                                                                                                                                                                                 |
| 6/7                  | 633.3                     |                  |                             | <p>4w 100 hr. Compressions ALL 76/80 or better. Change oil and filter. Cleaned, gapped, rotated spark plugs. Wash engine down and run up. LEAK checked.</p> <p>DATE <u>6/7/93</u> HOBBS TACH <u>633.3</u> TOTAL TIME <u>405.80</u></p> <p>"I certify that this <u>AIRCRAFT/ENGINE</u> has been inspected in accordance with an <u>ANNUAL (100 hr)</u> inspection and was determined to be in airworthy condition."</p> <p>SIGNATURE <u>Larry A. Col</u></p> <p>CERTIFICATE NUMBER <u>AP403724839</u></p> |

| DATE<br>19 <u>93</u> | RECORDING<br>TACH<br>TIME | TODAYS<br>FLIGHT | TOTAL<br>TIME IN<br>SERVICE | DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS<br>ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF<br>MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)                                                                                                                                                                                                                                                                                                                                                                                                                  |
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| 2/15                 | 277.0                     |                  |                             | Charged oil and filter. No metal<br>detected. Ran up a leak. checked.<br>Larry A. Cox<br>AP252157608                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 3/3/93               | 328.0                     |                  |                             | 4/100 hr. Ran engine up. Compression<br>test. 1- 80/80 2- 80/80 3- 80/80<br>4- 80/80. Changed oil and filter. No<br>metal detected. Serviced with 8 qts<br>Aeroshell 50w. Cleaned, gapped, rotated<br>spark plugs. Changed air filter. Wash<br>engine down, ran up - leak checked.<br>3/3/93<br>DATE <u>3/3/93</u> HOBBS <u>328.0</u> TACH <u>328.0</u> TOTAL TIME <u>700.5 (5mon)</u><br>"I certify that this <u>ENGINE</u> has been inspected<br>in accordance with <u>100 hr</u> section and was<br>determined to be in <u>airworthy</u> condition.<br>SIGNATURE <u>Larry A. Cox</u><br>CERTIFICATE NUMBER <u>AP403724839</u> |

| DATE<br>19 <u>93</u> | RECORDING<br>TACH<br>TIME | TODAYS<br>FLIGHT | TOTAL<br>TIME IN<br>SERVICE | DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS<br>ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF<br>MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)                                                                                                                                                                                                                                                                                                             |
|----------------------|---------------------------|------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4/1                  | 378.00                    |                  |                             | Change oil and filter. Serviced with<br>8 qts Aeroshell 50w. Wash engine down<br>and leak check filter.<br>Larry A. Cox<br>AP403724839                                                                                                                                                                                                                                                                                                                                                                                      |
| 4/17                 | 430.0                     |                  |                             | Change oil & filter. Compression test<br>① 78 ② 79 ③ 78 ④ 79. Cleaned,<br>gapped, rotated spark plugs. Changed<br>air filter. Serviced battery. Wash<br>engine down.<br>4/17/93<br>DATE <u>4/17/93</u> HOBBS <u>430.0</u> TACH <u>430.0</u> TOTAL TIME <u>202.5</u><br>"I certify that this <u>ENGINE</u> has been inspected<br>in accordance with an <u>ANNUAL 100 hr</u> inspection and was<br>determined to be in <u>airworthy</u> condition."<br>SIGNATURE <u>Larry A. Cox</u><br>CERTIFICATE NUMBER <u>AP403724839</u> |

| DATE<br>19 <u>93</u> | RECORDING<br>TACH<br>TIME | TODAYS<br>FLIGHT | TOTAL<br>TIME IN<br>SERVICE | DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS<br>ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF<br>MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.) |
|----------------------|---------------------------|------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1-10                 | 227.5                     |                  | 4117.0                      | Removed engine for major overhaul. Sent                                                                                                                                                                         |
|                      |                           |                  | SmOH: 0.00                  | to Graham Aircraft Engine Services Inc.                                                                                                                                                                         |
|                      |                           |                  |                             | The crankcase was sent to Divco, Inc.                                                                                                                                                                           |
|                      |                           |                  |                             | for certification w.o. # 40959. The                                                                                                                                                                             |
|                      |                           |                  |                             | crankshaft was inspected and modified by                                                                                                                                                                        |
|                      |                           |                  |                             | Graham w.o. # 1555. The camshaft was                                                                                                                                                                            |
|                      |                           |                  |                             | certified by Aircraft Specialties Services, Inc.                                                                                                                                                                |
|                      |                           |                  |                             | under w.o. # 56647. The crankshaft main                                                                                                                                                                         |
|                      |                           |                  |                             | and rod journals are standard. New                                                                                                                                                                              |
|                      |                           |                  |                             | cylinders were purchased from Ausco,                                                                                                                                                                            |
|                      |                           |                  |                             | Inc. from Lycoming.                                                                                                                                                                                             |
|                      |                           |                  |                             | Reassembled engine according to Lycoming                                                                                                                                                                        |
|                      |                           |                  |                             | Overhaul Manual Specifications and torques                                                                                                                                                                      |
|                      |                           |                  |                             | using the following new parts: ball, spring,                                                                                                                                                                    |
|                      |                           |                  |                             | gaskets, crankcase bearings, body tappets,                                                                                                                                                                      |
|                      |                           |                  |                             | rod bolts and nuts, tach shaft Assy.,                                                                                                                                                                           |
|                      |                           |                  |                             | oil pump kit, plunger assemblies, rocker                                                                                                                                                                        |
|                      |                           |                  |                             | shafts, buttons, oil return hoses, complete                                                                                                                                                                     |

| DATE<br>19 <u>93</u> | RECORDING<br>TACH<br>TIME | TODAYS<br>FLIGHT | TOTAL<br>TIME IN<br>SERVICE | DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS<br>ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF<br>MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.) |
|----------------------|---------------------------|------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1-10                 | 227.5                     |                  | 4117.0                      | gasket set. See w.o. 21 VICTOR Inc                                                                                                                                                                              |
|                      |                           |                  |                             | # 1495. Engine installed using new                                                                                                                                                                              |
|                      |                           |                  |                             | motor mounts, hoses, firesleeve, SCAT hoses,                                                                                                                                                                    |
|                      |                           |                  |                             | spark plugs RHM 40E, magnetos #4371                                                                                                                                                                             |
|                      |                           |                  |                             | S/N 92100490, 92100495, harness set,                                                                                                                                                                            |
|                      |                           |                  |                             | Propeller stripped, primed, and painted.                                                                                                                                                                        |
|                      |                           |                  |                             | Reinstalled and safetied. Added 8 gts                                                                                                                                                                           |
|                      |                           |                  |                             | Aerashell 50W mineral oil, oil & air                                                                                                                                                                            |
|                      |                           |                  |                             | filter (new). See yellow tags attached.                                                                                                                                                                         |
|                      |                           |                  |                             | Engine test run on ground for .5                                                                                                                                                                                |
|                      |                           |                  |                             | and leak checked. O.K. for test flight.                                                                                                                                                                         |
|                      |                           |                  |                             | Test flown for .5 and uncowed to                                                                                                                                                                                |
|                      |                           |                  |                             | check condition. No leaks detected and                                                                                                                                                                          |
|                      |                           |                  |                             | pressure & temperatures O.K. Return to Service.                                                                                                                                                                 |
|                      |                           |                  |                             | I certify that this engine has been                                                                                                                                                                             |
|                      |                           |                  |                             | inspected in accordance with an Annual                                                                                                                                                                          |
|                      |                           |                  |                             | inspection and is in airworthy condition                                                                                                                                                                        |
|                      |                           |                  |                             | Jimmy D. Cuf                                                                                                                                                                                                    |
|                      |                           |                  |                             | AP40324839IA                                                                                                                                                                                                    |

| DATE<br>19 <u>92</u> | RECORDING<br>TACH<br>TIME | TODAYS<br>FLIGHT | TOTAL<br>TIME IN<br>SERVICE | DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS<br>ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF<br>MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)                                                                                     |
|----------------------|---------------------------|------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 11-9                 | 153.9                     |                  |                             | Replaced VACUUM pump with new 211CC<br>S/N 06AH003507. Ran engine up and<br>leak checked.<br><br>L. Perry D. Py<br>AP403724839                                                                                                                                                                      |
| 12/1                 | 192.8                     |                  | 2080.9                      | Elw 100 hr inspection. Ran engine up.<br>Compression test ① 74 ② 74 ③ 77<br>④ 78. Cleaned, gapped, rotated spark<br>plugs. Replaced 3 intake hoses and<br>gaskets. Changed oil and filter. Replaced<br>Air filter. Lubed controls. Wash engine<br>down, ran up, leak checked. Return to<br>Service. |

| DATE<br>19 <u>92</u> | RECORDING<br>TACH<br>TIME | TODAYS<br>FLIGHT | TOTAL<br>TIME IN<br>SERVICE | DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS<br>ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF<br>MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)                                                                                                                         |
|----------------------|---------------------------|------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 12-1                 | 192.8                     |                  | 2080.9                      | DATE <u>12/1/92</u> HOBBS <u>      </u> TACH <u>192.8</u> TOTAL TIME <u>2080.9</u><br>"I certify that this AIRCRAFT ENGINE has been inspected<br>in accordance with an <u>ANNUAL 100 Hr</u> inspection and was<br>determined to be in airworthy condition."<br>SIGNATURE <u>L. Perry D. Py</u><br>CERTIFICATE NUMBER <u>AP403724839</u> |

| DATE<br>19 <u>92</u>                                                                                                                                                                                                                                                                                                     | RECORDING<br>TACH<br>TIME | TODAYS<br>FLIGHT | TOTAL<br>TIME IN<br>SERVICE | DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS<br>ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF<br>MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)                                                                                    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|------------------|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 8/4                                                                                                                                                                                                                                                                                                                      | 3885.0                    |                  | 1883.6                      | 4w 100 hr inspection. Ran engine up.<br>Compressions all $7\frac{1}{2}$ /80 or above. Cleaned,<br>gapped, rotated spark plugs. Serviced<br>battery. Replace exhaust stud #1 cylinder<br>and exhaust gaskets #1 & #3 cylinder.<br>Change oil and filter. Wash engine down.<br>Ran up, Leak checked. |
| DATE <u>8/14/92</u> HOBBS _____ TACH <u>3885.0</u> TOTAL TIME <u>1883.6</u><br>"I certify that this AIRCRAFT ENGINE has been inspected<br>in accordance with an <u>100 Hr.</u> inspection and was<br>determined to be in airworthy condition."<br>SIGNATURE <u>Larry G. Coy</u><br>CERTIFICATE NUMBER <u>AP403724839</u> |                           |                  |                             |                                                                                                                                                                                                                                                                                                    |
| 9-18                                                                                                                                                                                                                                                                                                                     | 45.0                      |                  | 1933.10                     | Change oil & filter. Serviced with 8 qts<br>Aeroshell. Clean, gap, rotate spark plugs.<br><u>Larry G. Coy</u><br>AP403724839                                                                                                                                                                       |

| DATE<br>19 <u>92</u>                                                                                                                                                                                                                                                                                                   | RECORDING<br>TACH<br>TIME | TODAYS<br>FLIGHT | TOTAL<br>TIME IN<br>SERVICE | DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS<br>ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF<br>MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)                                                                                                                                                                        |
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| 10/13                                                                                                                                                                                                                                                                                                                  | 93.1                      |                  | 1981.20                     | 4w 100 hour insp. Changed oil and filter.<br>Serviced with 8 qts Aeroshell and CH4811<br>filter. Cleaned, gapped, rotated spark plugs.<br>Replaced 1 spark plug. Compression tests:<br>①- 73 ②- 74 ③- 78 ④- 75<br>Replaced exhaust gaskets #2, #4 cylinders.<br>Replace prop seal. Wash engine down,<br>ran up. Leak checked. Return to Service.<br><u>Larry G. Coy</u><br>AP403724839 |
| DATE <u>10/1/92</u> HOBBS _____ TACH <u>93.1</u> TOTAL TIME <u>1981.2</u><br>"I certify that this AIRCRAFT ENGINE has been inspected<br>in accordance with an <u>100 Hr.</u> inspection and was<br>determined to be in airworthy condition."<br>SIGNATURE <u>Larry G. Coy</u><br>CERTIFICATE NUMBER <u>AP403724839</u> |                           |                  |                             |                                                                                                                                                                                                                                                                                                                                                                                        |

| DATE<br>19__ | RECORDING<br>TACH<br>TIME | TODAYS<br>FLIGHT | TOTAL<br>TIME IN<br>SERVICE | DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS<br>ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF<br>MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.) |
|--------------|---------------------------|------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5-16-91      |                           |                  |                             | Removed leaking oil cooler p/n 84065. Installed                                                                                                                                                                 |
| Tach         | 3700.3                    |                  |                             | overhauled oil cooler p/n 84065/85262.50 S/N                                                                                                                                                                    |
| Hobbs        | 3325.1                    |                  |                             | E91-1269-2. Washed engine cooling & engine.                                                                                                                                                                     |
|              |                           |                  |                             | Ground run, no leaks found. I certify this                                                                                                                                                                      |
|              |                           |                  |                             | powerplant is airworthy. Richard L. Latham                                                                                                                                                                      |
|              |                           |                  |                             | ASP 434060265                                                                                                                                                                                                   |
| 6-7-91       |                           |                  |                             | Warmed up engine, drained oil, removed &                                                                                                                                                                        |
| Tach         | 3728.1                    |                  |                             | inspected old oil filter. Installed & refilled a                                                                                                                                                                |
| Hobbs        | 3359.1                    |                  |                             | new C448111 oil filter. Serviced engine with 7                                                                                                                                                                  |
|              |                           |                  |                             | qt's Pennwalt W100SAE 5 & 1 bottle CV 16702.                                                                                                                                                                    |
|              |                           |                  |                             | Cleaned, gapped, rotated, & re-installed spark                                                                                                                                                                  |
|              |                           |                  |                             | plugs. Washed engine ground run, no leaks found.                                                                                                                                                                |
|              |                           |                  |                             | I certify this powerplant was inspected. T. L. Latham                                                                                                                                                           |
|              |                           |                  |                             | 50 hr inspection & is in airworthy condition.                                                                                                                                                                   |
|              |                           |                  |                             | Richard L. Latham                                                                                                                                                                                               |
|              |                           |                  |                             | ASP 434060265                                                                                                                                                                                                   |

| DATE<br>19 <u>91</u> | RECORDING<br>TACH<br>TIME | TODAYS<br>FLIGHT | TOTAL<br>TIME IN<br>SERVICE | DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS<br>ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF<br>MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.) |
|----------------------|---------------------------|------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 12/10                |                           |                  |                             | TAC 3785.1 HRS. ANNUAL INSPECTION                                                                                                                                                                               |
|                      | COMPRESSION               |                  |                             | HOBBS 3424.0 HRS.                                                                                                                                                                                               |
|                      | CHECK @ 80#               |                  |                             | SMOH 1783.6 HRS. (TOTAL 3785.1 HRS.)                                                                                                                                                                            |
|                      | CYL - 1 -                 | 74               |                             | CHECKED MAGNETO'S, FOR TIMING, REMOVED &                                                                                                                                                                        |
|                      | 2 -                       | 78               |                             | SERVICED SPARK PLUGS, SERVICED BATTERY, (CHECKED                                                                                                                                                                |
|                      | 3 -                       | 74               |                             | ALL CONTROLS FOR CONDITION & SECURITY, (CHECKED                                                                                                                                                                 |
|                      | 4 -                       | 78               |                             | EXHAUST SYSTEM & CARBURETOR FOR CONDITION                                                                                                                                                                       |
|                      |                           |                  |                             | & SECURITY, STARTER SYSTEM (CHECKED                                                                                                                                                                             |
|                      |                           |                  |                             | REPLACED OIL FILTER, ADDED 2 QTS AEROShell                                                                                                                                                                      |
|                      |                           |                  |                             | DETERGENT 50 WT. OIL. REPLACED AIR FILTER                                                                                                                                                                       |
|                      |                           |                  |                             | SPONGE. SPRAYED ENGINE WITH LYC.                                                                                                                                                                                |
|                      |                           |                  |                             | GRAY PAINT WHERE NEEDED. SPRAYED                                                                                                                                                                                |
|                      |                           |                  |                             | ENGINE WITH ACF 50, FIREWALL & ALL ELECTRICAL                                                                                                                                                                   |
|                      |                           |                  |                             | CLEANED & SPRAYED WITH ACF 50.                                                                                                                                                                                  |
|                      |                           |                  |                             | AD'S & SB (CHECKED TO THIS DATE.                                                                                                                                                                                |
|                      |                           |                  |                             | I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED                                                                                                                                                                   |
|                      |                           |                  |                             | IN ACCORDANCE WITH ANNUAL INSPECTION AND WAS DETERMINED                                                                                                                                                         |
|                      |                           |                  |                             | TO BE IN AN AIRCRAFT CONDITION.                                                                                                                                                                                 |
|                      |                           |                  |                             | John A. Kaurer IA 1087525                                                                                                                                                                                       |



| DATE<br>19__ | RECORDING<br>TACH<br>TIME | TODAYS<br>FLIGHT | TOTAL<br>TIME IN<br>SERVICE | DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS<br>ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF<br>MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.) |
|--------------|---------------------------|------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|              |                           |                  |                             | DATE <u>12-7-90</u> TOTAL TIME <u>1479.1 SMOH</u>                                                                                                                                                               |
|              |                           |                  |                             | I CERTIFY THIS <u>ENGINE</u> HAS <u>BEEN</u> <u>INSPECTED</u>                                                                                                                                                   |
|              |                           |                  |                             | IN ACCORDANCE WITH - AN <u>AIRCRAFT</u> <u>MAINTENANCE</u> <u>MANUAL</u>                                                                                                                                        |
|              |                           |                  |                             | AND DETERMINED TO BE IN AIRWORTHY CONDITION                                                                                                                                                                     |
|              |                           |                  |                             | L. E. WADE IA 1538103                                                                                                                                                                                           |
|              |                           |                  |                             | ADS CHECKED                                                                                                                                                                                                     |
|              |                           |                  |                             | THRU 910-22                                                                                                                                                                                                     |

| DATE<br>19__ | RECORDING<br>TACH<br>TIME | TODAYS<br>FLIGHT | TOTAL<br>TIME IN<br>SERVICE | DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS<br>ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF<br>MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.) |
|--------------|---------------------------|------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1-2-91       |                           |                  |                             | Blended up engine & drained oil. Removed                                                                                                                                                                        |
| TACH         | 3526.6                    |                  |                             | & inspected old oil filter. Installed                                                                                                                                                                           |
| Holds        | 3116.4                    |                  |                             | and refilled new CH48111 filter.                                                                                                                                                                                |
|              |                           |                  |                             | Serviced engine with 7 qts Aeroshell                                                                                                                                                                            |
|              |                           |                  |                             | W100 SAE 50 and 1 Bottle of                                                                                                                                                                                     |
|              |                           |                  |                             | 2W16702 oil additive. Cleaned gapped                                                                                                                                                                            |
|              |                           |                  |                             | and rotated and reinstalled                                                                                                                                                                                     |
|              |                           |                  |                             | spark plugs. Washed engine                                                                                                                                                                                      |
|              |                           |                  |                             | and <del>no</del> <u>Ground run</u> <u>no</u> <u>locks</u>                                                                                                                                                      |
|              |                           |                  |                             | <u>found</u> . I certify this powerplant                                                                                                                                                                        |
|              |                           |                  |                             | was inspected IIAW <u>classna</u> .                                                                                                                                                                             |
|              |                           |                  |                             | 50 HR checklist and is in airworthy                                                                                                                                                                             |
|              |                           |                  |                             | condition.                                                                                                                                                                                                      |
|              |                           |                  |                             | <u>Richard K. Kline</u>                                                                                                                                                                                         |
|              |                           |                  |                             | IA 43060265                                                                                                                                                                                                     |

| DATE<br>1990        | RECORDING<br>TACH<br>TIME | TODAYS<br>FLIGHT | TOTAL<br>TIME IN<br>SERVICE | DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS<br>ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF<br>MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.) |
|---------------------|---------------------------|------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 10-15-90            |                           |                  |                             | Checked A.D.'s Through 90-19.                                                                                                                                                                                   |
| Tach 3386.2         |                           |                  |                             | I certify that this Powerplant has                                                                                                                                                                              |
| Hobbs 2947.7        |                           |                  |                             | been inspected and serviced IAW                                                                                                                                                                                 |
| AKIT 3386.2         |                           |                  |                             | A General 100hr Inspection Checklist                                                                                                                                                                            |
| ESMOH 1384.7        |                           |                  |                             | and Service Manual Instructions and                                                                                                                                                                             |
| Eng. S - new 3385.7 |                           |                  |                             | has been found to be in                                                                                                                                                                                         |
|                     |                           |                  |                             | airworthy condition.                                                                                                                                                                                            |
|                     |                           |                  |                             | Joseph M. [Signature] AIP 4343/6091                                                                                                                                                                             |
| 11-5-90             |                           |                  |                             | Warmed up engine & drained oil. Removed                                                                                                                                                                         |
| Tach 3439.5         |                           |                  |                             | & inspected old oil filter. Serviced engine                                                                                                                                                                     |
| Hobbs 3010.9        |                           |                  |                             | with 7qt's Aeroshell w/100 SAE 50 & 1 bottle                                                                                                                                                                    |
|                     |                           |                  |                             | LW 16702. Installed & softed new CH48111                                                                                                                                                                        |
|                     |                           |                  |                             | oil filter. Cleared, gapped, rotated, & re-installed                                                                                                                                                            |
|                     |                           |                  |                             | spark plugs. Washed engine, ground con                                                                                                                                                                          |
|                     |                           |                  |                             | no leaks found. I certify this powerplant                                                                                                                                                                       |
|                     |                           |                  |                             | was inspected IAW 50-hr inspection & is                                                                                                                                                                         |
|                     |                           |                  |                             | in airworthy condition. Michael [Signature]                                                                                                                                                                     |
|                     |                           |                  |                             | AIP 434060265                                                                                                                                                                                                   |

| DATE<br>19__ | RECORDING<br>TACH<br>TIME | TODAYS<br>FLIGHT | TOTAL<br>TIME IN<br>SERVICE | DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS<br>ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF<br>MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.) |
|--------------|---------------------------|------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 11/30/90     |                           |                  |                             | Warmed up engine & drained oil. Removed & inspected old                                                                                                                                                         |
| Tach 3480.6  |                           |                  |                             | oil filter. Compression as follows: #1 72/80 #2 74/84                                                                                                                                                           |
| Hobbs 3060.8 |                           |                  |                             | #3 72/80 #4 74/80. Installed & softed a new CH48111                                                                                                                                                             |
| ESMOH 1479.1 |                           |                  |                             | oil filter. Serviced engine with 7qt's Aeroshell w/100 SAE 50.                                                                                                                                                  |
|              |                           |                  |                             | & 1 bottle LW16702. Cleared, gapped, rotated, &                                                                                                                                                                 |
|              |                           |                  |                             | re-installed spark plugs. Cleared fuel screens & fuel strainer.                                                                                                                                                 |
|              |                           |                  |                             | Installed new BA6108 Air Filter. Re-attached SCAT Duct                                                                                                                                                          |
|              |                           |                  |                             | from muffler shroud to cabin. Re-attached battery vent                                                                                                                                                          |
|              |                           |                  |                             | duct. Secured battery box to engine mount. Replaced                                                                                                                                                             |
|              |                           |                  |                             | cap on #1 top spark plug lead. c/w A.D. 76-07-12 R1 by [Signature]                                                                                                                                              |
|              |                           |                  |                             | ignition switch. Washed engine, ground con. no leaks found.                                                                                                                                                     |
|              |                           |                  |                             | I certify this powerplant was inspected IAW General 100                                                                                                                                                         |
|              |                           |                  |                             | hr inspection & is in airworthy condition. Michael [Signature]                                                                                                                                                  |
|              |                           |                  |                             | AIP 434060265                                                                                                                                                                                                   |
| 12/1/90      |                           |                  |                             | Installed new starter p/w MH13 4016R s/w 91123. Ops ✓                                                                                                                                                           |
| Tach 3480.6  |                           |                  |                             | Michael [Signature]                                                                                                                                                                                             |
| Hobbs 3060.8 |                           |                  |                             | AIP 434060265                                                                                                                                                                                                   |

| DATE<br>19__ | RECORDING<br>TACH<br>TIME | TODAYS<br>FLIGHT | TOTAL<br>TIME IN<br>SERVICE | DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS<br>ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF<br>MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)                                                                                                                                                                                                                                                                                                                                              |
|--------------|---------------------------|------------------|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 8/8/90       |                           |                  |                             | Warmed up engine & drained oil. Removed & inspected old<br>oil filter. Serviced engine with 745 Aeroshell 100 SAE50<br>21 LW 16702. Installed & refilled new CH48117 filter.<br>Compression is follows #1 70/80 #2 70/80 #3 72/80<br>#4 73/80. Cleaned, gapped, rotated, & re-installed spark plugs.<br>Installed new induction air filter. Cleaned fuel screens.<br>Washed engine, ground run, no leaks found. I certify the<br>powerplant was inspected JAW a Cessna 100 in inspection<br>and is in airworthy condition. Richard Leithman<br>AJP 434060265 |
| 9/2/90       |                           |                  |                             | Warmed up engine & drained oil. Removed & inspected<br>old oil filter. Serviced engine with 745 Aeroshell<br>100 SAE50 21 LW 16702. Installed & refilled<br>a new CH48111 oil filter. Cleaned, gapped, rotated, & re-<br>installed spark plugs. Washed engine, ground run, no leaks<br>found. I certify the powerplant was inspected JAW a 50<br>hr inspection & is in airworthy condition. Richard Leithman<br>AJP 434060265                                                                                                                                |

| DATE<br>19__ | RECORDING<br>TACH<br>TIME | TODAYS<br>FLIGHT | TOTAL<br>TIME IN<br>SERVICE | DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS<br>ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF<br>MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|--------------|---------------------------|------------------|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 10/15/90     |                           |                  |                             | Performed 100 Hr inspection JAW CESSNA<br>172 100 Hr Checklist. Serviced engine,<br>drained oil inspected oil filter, serviced<br>engine w/ 745 Aeroshell 100 SAE50<br>engine oil. Added 1EA. LW 16702 Lucas<br>oil additive. Compression test are as<br>follows - #1 76/80, #2 66/80, #3 78/80, #4 76/80<br>Cleaned, gapped, rotated, reinstalled<br>spark plugs. - Also installed new oil filter<br>(CH48111). Installed new air induction<br>filter element P/N BA 6108. Cleaned fuel<br>screen, drained, and flushed carb. fuel line.<br>Washed engine. Ground run - no leak<br>found. Muffler was inspected and found<br>to have been cracked. Replaced with P/N 1754001-<br>15R, S/N WCC-0-0-3441. I certify the powerplant<br>was inspected JAW Cessna 100 Hr Checklist and<br>is in airworthy condition. continued → |
| TACH         | 3386.2                    |                  |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| HOBBS        | 2947.7                    |                  |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| TT           | 3356.7                    |                  |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| ESMOH        | 1384.7                    |                  |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Engine       | TT 3385.7                 |                  |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

| DATE<br>19__ | RECORDING<br>TACH<br>TIME | TODAYS<br>FLIGHT | TOTAL<br>TIME IN<br>SERVICE | DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS<br>ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF<br>MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.) |
|--------------|---------------------------|------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6/11/90      |                           |                  |                             | Warmed up engine & drained oil. Serviced engine with 79ts Marshall                                                                                                                                              |
| TACH         | 3135.6                    |                  |                             | mineral oil & 1 bottle LW 16702. Removed & inspected oil filter.                                                                                                                                                |
| Hobbs        | 2644.7                    |                  |                             | Installed new CH48111 filter & softail. Cleaned, gapped,                                                                                                                                                        |
|              |                           |                  |                             | rotated. & re-installed spark plugs. Washed engine, ground run                                                                                                                                                  |
|              |                           |                  |                             | no leaks found. I certify this aircraft was inspected for a 50                                                                                                                                                  |
|              |                           |                  |                             | hr inspection and was found to be in airworthy condition.                                                                                                                                                       |
|              |                           |                  |                             | Richard Leckman                                                                                                                                                                                                 |
|              |                           |                  |                             | ASP 434060265                                                                                                                                                                                                   |
| 6/27/90      |                           |                  |                             | Warmed up engine & drained oil. Removed & inspected oil filter.                                                                                                                                                 |
| TACH         | 3186.4                    |                  |                             | Serviced engine with 79ts Marshall W100 SAE 50 & 1 bottle                                                                                                                                                       |
| Hobbs        | 27050                     |                  |                             | LW 16702. Compression is as follows #1 72/80 #2 70/80 #3 70/80                                                                                                                                                  |
| ESMOH        | 1184.9                    |                  |                             | #4 73/80. Cleaned, gapped, rotated, & re-installed spark plugs. Installed                                                                                                                                       |
|              |                           |                  |                             | new induction air filter. Washed engine, ground run, no leaks                                                                                                                                                   |
|              |                           |                  |                             | found. I certify this <sup>re</sup> aircraft was inspected                                                                                                                                                      |
|              |                           |                  |                             | for a 100 hr inspection & is in airworthy condition. RMD                                                                                                                                                        |
|              |                           |                  |                             | Richard Leckman                                                                                                                                                                                                 |
|              |                           |                  |                             | ASP 434060265                                                                                                                                                                                                   |

| DATE<br>19__ | RECORDING<br>TACH<br>TIME | TODAYS<br>FLIGHT | TOTAL<br>TIME IN<br>SERVICE | DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS<br>ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF<br>MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.) |
|--------------|---------------------------|------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7/11/90      |                           |                  |                             | Upon inspecting engine for oil leaks found the intake                                                                                                                                                           |
| TACH         | 3218.91                   |                  |                             | pushrod tube on #4 cylinder cracked & leaking oil.                                                                                                                                                              |
| Hobbs        | 27455                     |                  |                             | Determined #4 cylinder pushrod was unfit for service.                                                                                                                                                           |
|              |                           |                  |                             | Removed cylinder & installed 1 new cylinder oil seal w/                                                                                                                                                         |
|              |                           |                  |                             | pin 71481, valve pushrod pin 73414, new                                                                                                                                                                         |
|              |                           |                  |                             | pushrod tube pin 68987, a seal of pin's 62922 &                                                                                                                                                                 |
|              |                           |                  |                             | 70310 pushrod tube seals. Replaced all exhaust                                                                                                                                                                  |
|              |                           |                  |                             | hardware NUTS STD1410 & gaskets 77611. All                                                                                                                                                                      |
|              |                           |                  |                             | work done & the Lycoming direct drive engine overhauled                                                                                                                                                         |
|              |                           |                  |                             | normal. I certify this aircraft is in airworthy condition.                                                                                                                                                      |
|              |                           |                  |                             | Richard Leckman                                                                                                                                                                                                 |
|              |                           |                  |                             | ASP 434060265                                                                                                                                                                                                   |
| 7/23/90      |                           |                  |                             | Warmed up engine, drained oil, & removed old oil filter                                                                                                                                                         |
| TACH         | 3237.7                    |                  |                             | and inspected. Serviced engine with 79ts Marshall W100                                                                                                                                                          |
| Hobbs        | 2768.5                    |                  |                             | SAE 50 & 1 bottle LW 16702. Cleaned, gapped, rotated, &                                                                                                                                                         |
|              |                           |                  |                             | re-installed spark plugs. Installed new CH48111 filter &                                                                                                                                                        |
|              |                           |                  |                             | softail. Washed engine, ground run, no leaks found. I certify                                                                                                                                                   |
|              |                           |                  |                             | this engine was inspected for a 50 hr inspection & is in airworthy condition.                                                                                                                                   |
|              |                           |                  |                             | Richard Leckman ASP 434060265                                                                                                                                                                                   |



| DATE<br>1989 | RECORDING<br>TACH<br>TIME | TODAYS<br>FLIGHT | TOTAL<br>TIME IN<br>SERVICE | DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS<br>ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF<br>MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)                                                                                                                                                                                                                                                                   |
|--------------|---------------------------|------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 12/28/89     |                           |                  |                             | I certify that this Engine was insp. IAC<br>cessna 100 hour checklist and service manual<br>and was found to be in an air worthy<br>condition at this time. <i>Chetys A. Hobbs</i><br>AIP 436230522                                                                                                                                                                                                                                                                               |
| 01-08-90     | 2892.3                    |                  | 2892.3                      | I certify that this engine has been<br>inspected in accordance with a 100/<br>Annual inspection and was determined<br>to be in airworthy condition.<br><i>John M. Hays AIP 22725</i>                                                                                                                                                                                                                                                                                              |
| 2/12/90      |                           |                  |                             | Performed SO hr inspection. IAW EAC SO hr inspection checklist.<br>Wound up engine, then drained oil & removed filter.<br>Serviced engine with 7qts Aeroshell W100 SAE 50 & 1 bottle<br>LW 16702. Installed new CH 48111 oil filter. Cleaned<br>gapped, rotated & re-installed spark plugs. Wound engine.<br>Ground run good, no leaks found. <i>Chetys A. Hobbs</i><br>was inspected per a SO hr inspection and is airworthy at this<br>time. <i>Nickel Latham AIP 434860365</i> |
|              | Tach 2937.6               |                  |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|              | Hobbs 2406.0              |                  |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|              | ESMOH 936.1               |                  |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

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|--------------|---------------------------|------------------|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3/15/90      |                           |                  |                             | DRAINED OIL AND REFILLED WITH 7QTS AEROSHELL<br>W100 AND 1 BOTTLE LW 16702. REMOVED, INSPECTED,<br>AND REPLACED OIL FILTER CH 48111. CLEANED OIL SUMP<br>SCREEN. CLEANED, GAPPED, AND ROTATED SPARK PLUGS.<br>CLEANED FUEL STRAINER BOWL AND REPLACED O-RINGS.<br>COMPRESSION TEST AS FOLLOWS: #1 <sup>69</sup> / <sub>80</sub> #2 <sup>71</sup> / <sub>80</sub><br>#3 <sup>70</sup> / <sub>80</sub> #4 <sup>76</sup> / <sub>80</sub> . CHECKED MAG. TO ENGINE TIMING.<br>REPLACED 4 EXHAUST GASKETS DUE TO LEAKAGE.<br>REPLACED CARB. HEAT. SHROUD. <del>E/A</del> A.D. 84-26-C2<br>N/A by INSTALLATION OF AIR FILTER. A.D.'s CHECKED<br>THRU 89-04-02. I certify this airframe engine<br>has been inspected in accordance with<br>Cessna 100hr insp. checklist and was<br>determined to be in airworthy condition.<br><i>Robert J. Nares AIP 435212739</i> |
|              | TACH 2980.6               |                  |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|              | HOBBS 2458.0              |                  |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|              | SMOH 979.1                |                  |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|              | A/T.T. 2980.6             |                  |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|              | ANNUAL 12/90              |                  |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|              | ELT 2/91                  |                  |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

| DATE<br>19__ | RECORDING<br>TACH<br>TIME | TODAYS<br>FLIGHT | TOTAL<br>TIME IN<br>SERVICE | DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS<br>ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF<br>MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)                                                                                                                                                                                                                                                                                                                                                                         |
|--------------|---------------------------|------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 11/1/89      |                           |                  |                             | Performed 100 hr inspection IAW Cessna Service Manual. Drained engine oil & removed and inspected oil filter. Installed New Ch 48111 and refilled. Added 7 qts of aeroshell w/100 SAE 50 and 1 bottle of LW 16702. Cleared, gapped, rotated & reinstalled spark plugs. Compression as follows #1 66/80 #2 64/80 #3 72/80 #4 75/80. Checked Mag timing. Replaced induction air filter, worked engine. Performed ground run up, no leaks found. I certify this engine was inspected IAW a 100 hr inspection and was found to be airworth at this time.<br>Richard Lichten<br>ASP434060265 |
| 11/21/89     |                           |                  |                             | Performed 50 Hour Service Check Using EAC Checklist. Drained Oil and Refilled with 7 Qts Aeroshell w/100 SAE 50 + 1 Bottle of LW-16702 Additive. Removed Insp. and replaced Oil Filter C74811. Cleaned Gapped and → Next Page                                                                                                                                                                                                                                                                                                                                                           |

| DATE<br>19__ | RECORDING<br>TACH<br>TIME | TODAYS<br>FLIGHT | TOTAL<br>TIME IN<br>SERVICE | DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS<br>ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF<br>MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.) |
|--------------|---------------------------|------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 11/21/89     |                           |                  |                             | Rotated Spark Plugs. I certify that this                                                                                                                                                                        |
| Tach         | 2829.6                    |                  |                             | power plant is in airworthy condition                                                                                                                                                                           |
| Hobbs        | 2276.6                    |                  |                             | Christy A. Hobbs A+P 436230522 -END-                                                                                                                                                                            |
| 12/28/89     |                           |                  |                             | Performed 100 Hour Inspection 1AUG Cessna                                                                                                                                                                       |
| Tach         | 2887.6                    |                  |                             | 100 hour checklist and service manual.                                                                                                                                                                          |
| Hobbs        | 2344.4                    |                  |                             | Drained Engine oil + Removed and inspected                                                                                                                                                                      |
| SMOH         | 886.1                     |                  |                             | oil filter. Installed new CH48111 filter                                                                                                                                                                        |
| Compression  |                           |                  |                             | and saftied. Added 7 Qts of aeroshell                                                                                                                                                                           |
| #1           | 68/80                     |                  |                             | W100 SAE 50. <del>C/W A.D. 80-04 03R2</del>                                                                                                                                                                     |
| #2           | 71/80                     |                  |                             | <del>by adding one bottle of LW16702 additive</del>                                                                                                                                                             |
| #3           | 69/80                     |                  |                             | <del>to oil. added one bottle of LW16702</del>                                                                                                                                                                  |
| #4           | 73/80                     |                  |                             | <del>additive. Cleaned, gapped, rotated +</del>                                                                                                                                                                 |
| #            |                           |                  |                             | <del>reinstalled spark plugs. Checked Mag</del>                                                                                                                                                                 |
|              |                           |                  |                             | <del>timing. Replaced induction air filter.</del>                                                                                                                                                               |
|              |                           |                  |                             | <del>Washed Engine. Replaced #2 Cyl. Exhaust</del>                                                                                                                                                              |
|              |                           |                  |                             | <del>stack. Performed ground run up, no</del>                                                                                                                                                                   |
|              |                           |                  |                             | <del>leaks found. —————&gt; Continued Next Page</del>                                                                                                                                                           |

| DATE<br>19__ | RECORDING<br>TACH<br>TIME | TODAYS<br>FLIGHT | TOTAL<br>TIME IN<br>SERVICE | DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS<br>ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF<br>MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.) |
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|         |  |  |  |                                                |
|---------|--|--|--|------------------------------------------------|
| 8-23-89 |  |  |  | Tach 2653.5 hours<br>SMOH 652 hours            |
| R & R   |  |  |  | #4 Cylinder due to low compression             |
|         |  |  |  | Install New Chrome Cylinder stud Assy          |
|         |  |  |  | Ref Check Aircraft Tag #878, Reseated Valves   |
|         |  |  |  | Install New Rings, Carkets & Seals, Ground Run |
|         |  |  |  | Engine ok & Return to Service                  |
|         |  |  |  | #1 70/80                                       |
|         |  |  |  | #2 70/80                                       |
|         |  |  |  | #3 70/80                                       |
|         |  |  |  | #4 70/80                                       |

|               |  |  |  |                                               |
|---------------|--|--|--|-----------------------------------------------|
| 9/5/89        |  |  |  | Removed voltage regulator and installed       |
| TACH 2671.4   |  |  |  | new Cessna P/S C611005-0105 voltage regulator |
| HOBBES 2088.8 |  |  |  | Ground ran aircraft and load tested           |
| SMOH 669.9    |  |  |  | system by turning on all lights and           |
|               |  |  |  | radioes. Load check okay. All work performed  |
|               |  |  |  | in accordance with Cessna service manual.     |

Robert J. Nares  
AIP 435212739

| DATE<br>19__ | RECORDING<br>TACH<br>TIME | TODAYS<br>FLIGHT | TOTAL<br>TIME IN<br>SERVICE | DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS<br>ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF<br>MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.) |
|--------------|---------------------------|------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|--------------|---------------------------|------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|               |  |  |  |                                                           |
|---------------|--|--|--|-----------------------------------------------------------|
| 9/12/89       |  |  |  | Performed 100 hr inspection in accordance with Cessna     |
| TACH 2682.0   |  |  |  | service manual. Drained oil, removed filter.              |
| HOBBES 2101.2 |  |  |  | Installed new CH48111 & safttail. Added 79ts              |
| SMOH 680.5    |  |  |  | Aeroshell W100 SAE 50 and 1 bottle LW16702. Cleared       |
|               |  |  |  | gapped rotated and reinstalled spark plugs. Compression   |
|               |  |  |  | check #1-68 - #2-70 #3-68 #4-76. Checked                  |
|               |  |  |  | magneto timing. Replaced induction air filter BA 6108     |
|               |  |  |  | with new BA 6108. Run up good, no leaks detected.         |
|               |  |  |  | I certify this engine was inspected IAW 100 hr inspection |
|               |  |  |  | as per Cessna service manual and is in an airworthy       |
|               |  |  |  | condition at this time.                                   |

Richard Lantieri  
AIP 434060265

|                 |  |  |  |                                                     |
|-----------------|--|--|--|-----------------------------------------------------|
| 10/13/89        |  |  |  | PERFORMED 50HR. SERVICE CHECK USING                 |
| TACH 2728.2     |  |  |  | EAC CHECKLIST. DRAINED OIL & REFILLED W/ 79TS       |
| ENG. SMOH 720.7 |  |  |  | AEROSHELL W100 & 1 BOTTLE LW16702. REMOVED,         |
| HOBBES 2155.4   |  |  |  | INSPE, & REPLACED OIL FILTER CH48111. CLEANED,      |
|                 |  |  |  | GAPPED, & ROTATED SPARK PLUGS. Robert J. Nares, AIP |

| DATE<br>1989 | RECORDING<br>TACH<br>TIME | TODAYS<br>FLIGHT | TOTAL<br>TIME IN<br>SERVICE | DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS<br>ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF<br>MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.) |
|--------------|---------------------------|------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6-23-89      | TACH                      | 2523.2           | Hours 1914.4                | Eng SMOH 521.6                                                                                                                                                                                                  |
|              |                           |                  |                             | Drained Engine Oil, Installed New Oil Filter CH48111, Added                                                                                                                                                     |
|              |                           |                  |                             | 7qts Aeroshell 100 S&W oil and LW16702 oil additive.                                                                                                                                                            |
|              |                           |                  |                             | Checked Spark Plugs, Battery, Brake Linings, Brake Fluid Lines,                                                                                                                                                 |
|              |                           |                  |                             | Exterior Lights, and General Condition of Aircraft. Ground                                                                                                                                                      |
|              |                           |                  |                             | Run-up Good, No oil leaks detected, I certify that this                                                                                                                                                         |
|              |                           |                  |                             | Aircraft has been inspected and serviced in accordance with                                                                                                                                                     |
|              |                           |                  |                             | a EAC 50hr Checklist and Service Manual and has been                                                                                                                                                            |
|              |                           |                  |                             | found to be in Airworthy Condition at this time.                                                                                                                                                                |
|              |                           |                  |                             | Joseph J. Wenzel ACP 434316091                                                                                                                                                                                  |

| DATE<br>1989 | RECORDING<br>TACH<br>TIME | TODAYS<br>FLIGHT | TOTAL<br>TIME IN<br>SERVICE | DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS<br>ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF<br>MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.) |
|--------------|---------------------------|------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7-19-89      | TACH                      | 2576.9           |                             | Oil change, filter changed & checked                                                                                                                                                                            |
|              |                           |                  |                             | Comp. CK #1-74, #2-72, #3-70 #4-60                                                                                                                                                                              |
|              |                           |                  |                             | Replaced SPARK Plugs. checked BAT.                                                                                                                                                                              |
|              |                           |                  |                             | Adj. VAC. & certify that this engine                                                                                                                                                                            |
|              |                           |                  |                             | has been inspected in accordance                                                                                                                                                                                |
|              |                           |                  |                             | with an 100 hr. inspection and was                                                                                                                                                                              |
|              |                           |                  |                             | determined to be in an Airworthy                                                                                                                                                                                |
|              |                           |                  |                             | Condition. B.A. Hildner ACP 484167                                                                                                                                                                              |
| 8/8/89       | <del>TACH</del>           |                  |                             | PERFORMED 50 HR. INSPECTION USING E.A.C.                                                                                                                                                                        |
|              | TACH                      | 2629.0           |                             | CHECKLIST AND SERVICE MANUAL. DRAINED OIL                                                                                                                                                                       |
|              | Hobbs                     | 7036.3           |                             | AND REFILLED WITH 7QTS AEROSHELL W100 AND                                                                                                                                                                       |
|              | ACT                       | 2629.0           |                             | 1 BOTTLE LW16702. INSTALLED NEW CH48111 OIL                                                                                                                                                                     |
|              |                           |                  |                             | FILTER CLEANED, GAPPED, AND ROTATED SPARK                                                                                                                                                                       |
|              |                           |                  |                             | PLUGS. GROUND RUN-UP GOOD. - NO LEAKS FOUND.                                                                                                                                                                    |
|              |                           |                  |                             | Robert J. Nares                                                                                                                                                                                                 |
|              |                           |                  |                             | ACP 435212739                                                                                                                                                                                                   |

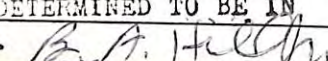
| DATE<br>1989  | RECORDING<br>TACH<br>TIME   | TODAYS<br>FLIGHT | TOTAL<br>TIME IN<br>SERVICE | DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS<br>ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF<br>MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)                                                                                                                     |
|---------------|-----------------------------|------------------|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FEB. 15, 1989 | TACH 2303.1<br>HOBBS 1605.5 |                  |                             | Performed 50hr. service check using EAC checklist. Drained oil and refilled with 7 qts. Aerashell W100 SAE 50 and 1 bottle LW16702. Replaced oil filter with new CH48111. Cleaned, gapped, and rotated spark plugs. Ground run-up good - No leaks found.<br>Robert J. Nares<br>A&P 435812739                                        |
| 3-24-89       | TACH 2358.9                 |                  |                             | oil change, Filter changed comp.ck.<br>#1-76 #2-72 #3-74 #4-70<br>cleaned & painted around BAT. Box.<br>cleaned & gaped plugs.<br>3-24-89 TACH 2358.9 HRS<br>I CERTIFY THAT THIS engine HAS BEEN<br>INSPECTED IN ACCORDANCE WITH A 100 hr.<br>INSPECTION AND WAS DETERMINED TO BE IN<br>AIRWORTHY CONDITION. B.A. Hild. A&P 1484167 |

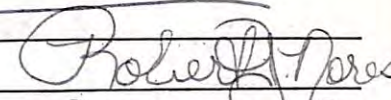
| DATE<br>19__ | RECORDING<br>TACH<br>TIME   | TODAYS<br>FLIGHT | TOTAL<br>TIME IN<br>SERVICE | DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS<br>ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF<br>MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)                                                                                                                          |
|--------------|-----------------------------|------------------|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4-18-89      | TACH 2405.8<br>HOBBS 1772.8 |                  |                             | Performed 50hr. service check using EAC checklist. Drained oil and refilled with 7 qts. Aerashell W100 SAE 50 and 1 bottle LW16702. Replaced oil filter CH48111 with new. Cleaned, gapped, and rotated spark plugs. Ground run-up good - no leaks found.<br>Robert J. Nares<br>A&P 435812739                                             |
| 5/18/89      | TACH 2457.6<br>HOBBS 1835.7 |                  |                             | oil & filter changed. Engine serviced with 8 quarts AS 50 W & 1 bottle LW16702. Installed new CH48111 filter. Compression checks: #1, 72 #2, 70 #3, 70 #4, 62. I certify that this engine has been inspected in accordance with a 100 hr inspection and was determined to be in airworthy condition.<br>Phillip W. Nichols A&P 451021842 |

| DATE<br>19__ | RECORDING<br>TACH<br>TIME | TODAYS<br>FLIGHT | TOTAL<br>TIME IN<br>SERVICE | DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS<br>ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF<br>MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)                                                                                                                                                            |
|--------------|---------------------------|------------------|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 11-25-88     |                           |                  |                             | Tach 2156.7 hours SMOH 155.2 hours<br>Perform 100 hour Inspection of Engine - Drain oil<br>& Change Filter serviced with 7qt's 50wt Aeroshell 15<br>Perform Compression Check ok, Check Mag Timing ok<br>Install new crankshaft seal Assy, Gap & Reface Rch<br>Flanges & Reinstall with new Gaskets, Cleaned &<br>Gapped Plugs Ground Run Engine ok & Return to<br>Service |
|              |                           |                  |                             | Locality: this Engine has been inspected by<br>Annual Inspection on<br>Date 11-25-88 Tach Time 2156.7<br>WCH Tech Time SMOH 155.2                                                                                                                                                                                                                                          |
|              |                           |                  |                             | Jack E. Clark<br>A & P 364549803<br>JA                                                                                                                                                                                                                                                                                                                                     |

| DIFFERENTIAL COMPRESSION<br>CHECK |    |    |    |
|-----------------------------------|----|----|----|
| #1                                | 75 | #4 | 72 |
| #2                                | 72 | #5 |    |
| #3                                | 72 | #6 |    |

| DATE<br>19__    | RECORDING<br>TACH<br>TIME | TODAYS<br>FLIGHT | TOTAL<br>TIME IN<br>SERVICE | DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS<br>ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF<br>MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.) |
|-----------------|---------------------------|------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 19 DEC. 1988    |                           |                  |                             | PERFORMED 50 HOUR SERVICE CHECK USING                                                                                                                                                                           |
| TACH 2216.3     |                           |                  | ETAC                        | CHECKERST. CHANGED OIL AND FILTER CLEANED                                                                                                                                                                       |
| HOBBS 1543.8    |                           |                  |                             | GAPPED AND ROTATED SPARK PLUGS. GROUND RUN GOOD.                                                                                                                                                                |
| ENG. T.T. 214.7 |                           |                  |                             | Robert Nares<br>A & P 435212739                                                                                                                                                                                 |
| 13 JAN. 89      |                           |                  |                             | PERFORMED A 100 HOUR INSPECTION OF ENGINE; DRAINED                                                                                                                                                              |
| TACH 2253.4     |                           |                  |                             | Eng. oil; Reservoiced with 7qt's Aeroshell 150W A.D. oil; Replaced                                                                                                                                              |
| hours 1588.9    |                           |                  |                             | OIL FILTER #CH48111, & inspected old Filter Element; Added                                                                                                                                                      |
| ENG. T.T. 251.8 |                           |                  |                             | 1 BOTTLE LW1670L Additive; cleaned, gapped & inspected                                                                                                                                                          |
|                 |                           |                  |                             | SPARK PLUGS; checked Mag. Timing & Reset to 25°. checked                                                                                                                                                        |
|                 |                           |                  |                             | FUEL FINGER STRAINER & drained CARB BOWL. Checked Compression                                                                                                                                                   |
|                 |                           |                  |                             | #1 75/80 #2 73/80 #3 70/80 #4 70/80. Washed Engine,                                                                                                                                                             |
|                 |                           |                  |                             | Engine Ground Run up & checked OK, NO LEAKS FOUND.                                                                                                                                                              |
|                 |                           |                  |                             | T. CERTIFY THIS ENGINE HAS BEEN INSPECTED IAW A 100 HOUR INSPECTION                                                                                                                                             |
|                 |                           |                  |                             | AS PER CESSNA SERVICE MANUAL AND IS IN AIRWORTHY CONDITION AT THIS                                                                                                                                              |
|                 |                           |                  |                             | DATE + TIME Daniel J. Padua A-P 739885637                                                                                                                                                                       |

| DATE<br>19__                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | RECORDING<br>TACH<br>TIME | TODAYS<br>FLIGHT | TOTAL<br>TIME IN<br>SERVICE | DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS<br>ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF<br>MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.) |                                     |  |  |  |    |    |    |    |    |    |    |    |    |    |    |    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|--|--|--|----|----|----|----|----|----|----|----|----|----|----|----|
| 9-22-88                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                           | Tach             | 2020.4 hours                |                                                                                                                                                                                                                 |                                     |  |  |  |    |    |    |    |    |    |    |    |    |    |    |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                           | SMOH             | 18.9 hours                  |                                                                                                                                                                                                                 |                                     |  |  |  |    |    |    |    |    |    |    |    |    |    |    |    |
| Perform 25 hour Inspection of Engine as per the<br>Following Items Change oil & Filter serviced with<br>7qts Aeroshell 100W oil Perform Compression Check<br>OK Ground Run Engine OK & Return to Service.                                                                                                                                                                                                                                                                                                                                                                                                                           |                           |                  |                             |                                                                                                                                                                                                                 |                                     |  |  |  |    |    |    |    |    |    |    |    |    |    |    |    |
| <div style="display: flex; justify-content: space-between; align-items: center;"> <table border="1" style="border-collapse: collapse; text-align: center;"> <thead> <tr> <th colspan="4">DIFFERENTIAL COMPRESSION<br/>EG-OVER</th> </tr> </thead> <tbody> <tr> <td>#1</td> <td>76</td> <td>#4</td> <td>77</td> </tr> <tr> <td>#2</td> <td>74</td> <td>#3</td> <td>75</td> </tr> <tr> <td>#3</td> <td>76</td> <td>#4</td> <td>77</td> </tr> </tbody> </table> <div style="text-align: right;"> <br/>           AHP 364549503         </div> </div> |                           |                  |                             |                                                                                                                                                                                                                 | DIFFERENTIAL COMPRESSION<br>EG-OVER |  |  |  | #1 | 76 | #4 | 77 | #2 | 74 | #3 | 75 | #3 | 76 | #4 | 77 |
| DIFFERENTIAL COMPRESSION<br>EG-OVER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                           |                  |                             |                                                                                                                                                                                                                 |                                     |  |  |  |    |    |    |    |    |    |    |    |    |    |    |    |
| #1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 76                        | #4               | 77                          |                                                                                                                                                                                                                 |                                     |  |  |  |    |    |    |    |    |    |    |    |    |    |    |    |
| #2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 74                        | #3               | 75                          |                                                                                                                                                                                                                 |                                     |  |  |  |    |    |    |    |    |    |    |    |    |    |    |    |
| #3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 76                        | #4               | 77                          |                                                                                                                                                                                                                 |                                     |  |  |  |    |    |    |    |    |    |    |    |    |    |    |    |
| 10-6-88                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | TACH                      |                  | 2047.2                      | PERFORM 100 hr. Insp. change oil & filter<br>Comp. OK #1-70, #2-70, #3-71, #4-71 clean.<br>SP plugs & checked, Aeroshell W100 installed.                                                                        |                                     |  |  |  |    |    |    |    |    |    |    |    |    |    |    |    |
| DATE 10-6-88 TACH 2047.2 HRS. _____<br>I CERTIFY THAT THIS engine HAS BEEN<br>INSPECTED IN ACCORDANCE WITH A 100 hr.<br>INSPECTION AND WAS DETERMINED TO BE IN<br>AIRWORTHY CONDITION.                                                                                                                                                                                                                                                                                                                                                           |                           |                  |                             |                                                                                                                                                                                                                 |                                     |  |  |  |    |    |    |    |    |    |    |    |    |    |    |    |

| DATE<br>19__                                                                                         | RECORDING<br>TACH<br>TIME | TODAYS<br>FLIGHT | TOTAL<br>TIME IN<br>SERVICE | DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS<br>ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF<br>MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.) |
|------------------------------------------------------------------------------------------------------|---------------------------|------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 27                                                                                                   | OCT. 19                   | 88               |                             | PERFORMED 50 HOUR SERVICE CHECK USING EAC                                                                                                                                                                       |
|                                                                                                      | TACH                      |                  | 2044.3                      | CHECKLIST. DRAINED OIL AND REFILLED WITH                                                                                                                                                                        |
|                                                                                                      | SMOH                      |                  | 92.8                        | 7 QTS AEROSHELL W100 AND 1 BOTTLE LW16702.                                                                                                                                                                      |
| REPLACED OIL FILTER WITH NEW P/N CH48111.                                                            |                           |                  |                             |                                                                                                                                                                                                                 |
| CLEANED, GAPPED, AND ROTATED SPARK                                                                   |                           |                  |                             |                                                                                                                                                                                                                 |
| PLUGS. GROUND RUN-UP GOOD-NO LEAKS                                                                   |                           |                  |                             |                                                                                                                                                                                                                 |
| FOUND. ———— END ————                                                                                 |                           |                  |                             |                                                                                                                                                                                                                 |
| <br>AHP 435212739 |                           |                  |                             |                                                                                                                                                                                                                 |

| DATE<br>19__ | RECORDING<br>TACH<br>TIME | TODAYS<br>FLIGHT | TOTAL<br>TIME IN<br>SERVICE | DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS<br>ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF<br>MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.) |
|--------------|---------------------------|------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|              |                           |                  |                             |                                                                                                                                                                                                                 |

# **CLARK AIRCRAFT, Inc.**

P. O. BOX 327 BAY MINETTE, ALA. 36507

## **MAINTENANCE RELEASE**

The aircraft engine identified below was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Pertinent details of the repair are on file at this agency. CERT. No. RS 702-125

Work Order No. 4552 Date: 8-24-88  
 Model 0-320-D2J Serial No. 2-10513-39A  
 Date Overhauled 8-24-88  
 Total Accumulated Time 2001.5 hours

Signed: [Signature]

The above listed component has been inspected, Overhauled and test run as prescribed by manufacturer's specifications. All steel parts magnafluxed and non-ferric parts dyed. No further run-in of the installation is required. All factory bulletins complied with at time of overhaul. All applicable airworthiness directives complied with.

| DATE<br>19__ | RECORDING<br>TACH<br>TIME | TODAYS<br>FLIGHT | TOTAL<br>TIME IN<br>SERVICE | DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS<br>ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF<br>MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.) |
|--------------|---------------------------|------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|              |                           |                  |                             |                                                                                                                                                                                                                 |

8-24-88 Tach 2001.5 hours Hobbs 1297.6 hours  
SMOH 00.0

Removed & Reinstalled Engine for Major Overhaul  
Ref CJA WO 4552 for Details, Installed new Lord Mounts  
Carb Heat Cable, Serviced with Eight Quarts Aeroshell  
100 Non Detergent oil, Check Engine Timing OK  
Perform Compression Check OK, Engine Grounded OK & Return  
to Service

| DIFFERENTIAL COMPRESSION<br>50-0VER |           |    |           |
|-------------------------------------|-----------|----|-----------|
| #1                                  | <u>76</u> | #4 | <u>72</u> |
| #2                                  | <u>72</u> | #5 |           |
| #3                                  | <u>72</u> | #6 |           |

certify this Engine has been inspected in  
 accordance with a 100 hour inspection and  
 found to be in airworthy condition.

Date 8-24-88 Total Time 2001.5  
 WOE Tach Time 2001.5

[Signature]  
 Jack E. Clark  
 A & P 364549803

ENGINE RECORD — GENERAL INFORMATION

MANUFACTURER Lycoming MODEL O-320-D2J

SERIAL 2-10583-39A TYPE CERTIFICATE \_\_\_\_\_

THIS ENGINE IS CURRENTLY INSTALLED IN AIRCRAFT C-172 N52186

MINIMUM OCTANE FUEL \_\_\_\_\_ OIL GRADE SUMMER \_\_\_\_\_ WINTER \_\_\_\_\_

MAGNETO TIME \_\_\_\_\_ POINT SETTING \_\_\_\_\_ FIRING ORDER \_\_\_\_\_

SPARK PLUG GAP \_\_\_\_\_

MFG. RECOMMENDED OVERHAUL AT \_\_\_\_\_ HOURS.



The Standard

ENGINE LOG