

JULY 1998

~~Obsolete Logbook~~
~~N9700Z~~ wrote in
error!

~~Not For~~ **ENGINE**
MAINTENANCE RECORDS

→ **N5040M** ←

ENGINE

BOOK 2

JUNE 1998 TO PRESENT



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Engines Are Our **ONLY** Business

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DA

MAKE: LYCOMING
MODEL: O-320-E3D
S/N: L-30971-27A
REG #: N5040M



DATE: 05/21/2025
ENG TSOH: 1,707.1
ENG TSN: 3,682.2
TACH: 397.5

Mandatory Part 91 Maintenance & Life Limits

- Performed 100 Hour/Annual Inspection in accordance with FAR 43 Appendix D with reference to BEECH Maintenance Manual.
- Compressions: #1 77/80 #2 78/80 #3 77/80 #4 78/80

Manufacturers Time Limits, Inspections & Instructions for Continued Airworthiness

- Changed oil & filter, serviced with Phillips XC 20W50 oil and inspected challenger reusable filter p/n: CP48110C. No contaminants found
- Removed, cleaned, gapped, tested and re-installed spark plugs
- Replaced air inlet filter with new element
- Performed comprehensive exhaust system inspection and exhaust system pressure test with no defects noted

Airworthiness Directives

- AD's checked through this date using ADTOOLBOX. See attached AD report dated 05/21/2025.

General Maintenance

- Timed Magneto to 24 degrees

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

Brett J. Kurth A&P/IA 3874583

No loose Bolts LLC
ENGINE

N#: N5040M Mfg: Lycoming Model: 0-320-E3D SN: L-30971-27A Tach: 475.5

1. R/R Cylinder 1,3 top and bottom plugs with new Tempest URHM-40E.
2. R/R Cylinder 4 top plug with new Tempest URHM-40E
3. Timed LH and RH mags to 25 Degrees BTDC.
4. Adjusted carb Idle air mixture, Adjusted idle.

Performed runup, mag check within specified limits. Idle and air mixture check good

5. All work done IAW Lycoming OHM. This aircraft is RTS only for the work described

Date: 7/09/2025 Name: Cody Colclasure Cert: AP4469525

Signature:

No Loose Bolts LLC.**Engine**

Make: Lycoming Model: 0-320-E3D Serial Number: L-30971-27A N Number: N5040M Engine
TSOH: 1794.9 TSN: 3770 Tach Time: 485.3

Performed a 100 Hour Inspection in accordance with FAR 43 Appendix D with reference to Lycoming OHM.

Performed compression Test with the following results: 1: 73/80 2: 76/80 3: 78/80 4: 77/80

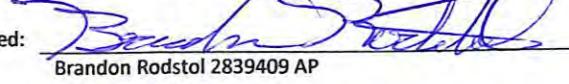
Removed Spark plugs. Cleaned, gapped, and tested. Reinstalled spark plugs

Oil Change: Drained oil, Removed Challaneger reusable filter and inspected. No abnormalities found reinstalled oil filter and safety wired. Added 7 Qts Phillips XC 20W50.

1. C.W with all AD's See AD report dated 7/13/2025.
2. Noted Intake leak from Cylinder 2 intake boot. Band loose. Tightened band clamp.
3. Replaced air filter with new element.

Ran engine, performed runup, mag check, leak check, and ops check good.

I certify that this Engine has been inspected IAW a 100 hour inspection and was determined to be in airworthy condition...
Name: Cody Colclasure Signature: Cert #: AP4469525 Date: 07/14/2025

DATE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED -- SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK			
		N#: 5040M Date: 11-21-2023 W/O: 1257	Mfg: Lycoming ETT: 3243.26	Model: O-320-E3D TSMOH: 1268.16	SN: L-30971-27A Tach: 5240.26
<p>Scheduled Maintenance:</p> <ul style="list-style-type: none"> Complied with Annual inspection IAW FAR 43 Appendix D using Ridgeline Aviation 100hr/Annual inspection checklist. Cylinder compressions as follows: #1 75/80 #2 77/80 #3 76/80 #4 76/80 Cleaned, inspected, serviced, gapped, and rotated spark plugs, installed using new M674 gaskets, torqued to 360 in lbs. Checked and verified magneto timing to 25 degrees BTDC. Lubricated and inspected engine controls. <p>Unscheduled Maintenance:</p> <ul style="list-style-type: none"> Removed engine from engine mount, removed nose strut assembly from the engine mount and removed mount from the airframe. Sent mount to Aerospace Welding Minneapolis, Inc for repair. Reinstalled repaired engine mount (AWI W/O # 216620) IAW B19 Shop Manual 3-54B Engine Installation, torqued bolts to 325 in lbs. Reinstalled engine to mount using original shock mounts and hardware IAW B19 Shop Manual 3-54B Engine Installation, torqued bolts to 500 in lbs. Reinstalled nose strut assembly to mount, reconnected lines, hoses, control cables, and wiring. Ground run, OPS and leak checks satisfactory <p>Airworthiness Directives:</p> <ul style="list-style-type: none"> Reviewed all applicable airworthiness directives through this date, see AD compliance record. <p>I certify this <u>Engine</u> has been inspected in accordance with <u>Annual</u> inspection and was determined to be in airworthy condition.</p> <p>Signed:  Brandon Rodstol 2839409 AP IA</p> <p>Ridgeline Aviation LLC 3910 Airport Way E Wenatchee WA </p>					
		N#: 5040M Date: 07-11-2024 W/O: 1457	Mfg: Lycoming AFTT: :	Model: O-320-E3D :	SN: L-30971-27A Tach: 5258.18
<p>Performed the following maintenance:</p> <ul style="list-style-type: none"> Drained engine oil, removed filter, examined filter elements for contamination, no abnormalities found. Installed new CH48110-1 oil filter, torqued to 16 ft lbs, and safety wired. Serviced engine with 7 qts Aeroshell W100 oil and 8 oz of Camguard. Performed satisfactory ground run and leak check. <p>This aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and is approved for return to service for the work performed.</p> <p>Signed:  Brandon Rodstol 2839409 AP</p> <p>Ridgeline Aviation 3910 Airport Way E Wenatchee WA </p>					
<p>MAKE: LYCOMING MODEL: O-320-E3D S/N: L-30971-27A REG #: NS040M</p> <p>Alpha Bravo Aviation</p> <p>Mandatory Part 91 Maintenance & Life Limits</p> <ul style="list-style-type: none"> Performed 100 Hour/Annual Inspection in accordance with FAR 43 Appendix D with reference to BEECH Maintenance Manual. Compressions: #1 79/80 #2 80/80 #3 80/80 #4 79/80 <p>Manufacturers Time Limits, Inspections & Instructions for Continued Airworthiness</p> <ul style="list-style-type: none"> Changed oil & filter, serviced with Phillips XC 20W50 oil and new CH48110-2 filter Removed, cleaned, gapped, tested and re-installed spark plugs Replaced air inlet filter with new element Performed comprehensive exhaust system inspection and exhaust system pressure test with no defects noted <p>Airworthiness Directives</p> <ul style="list-style-type: none"> AD's checked through this date 10/02/2024 <p>General Maintenance</p> <ul style="list-style-type: none"> Timed Magnetos to 24 degrees <p>I certify that this <u>ENGINE</u> has been inspected in accordance with a <u>100 Hour Inspection</u> and was determined to be in airworthy condition.</p> <p>Brett J. Kurth A&P/IA 3874583 </p>					

MAKE: LYCOMING
MODEL: O-320-E3D
S/N: L-30971-27A
REG #: NS040M

Alpha Bravo

Mandatory Part 91 Maintenance & Life Limits

- Performed 100 Hour/Annual Inspection in accordance with FAR 43 Appendix D with reference to BEECH Maintenance Manual.
- Compressions: #1 78/80 #2 78/80 #3 79/80 #4 80/80

Manufacturers Time Limits, Inspections & Instructions for Continued Airworthiness

- Changed oil & filter, serviced with Phillips XC 20W50 oil and new CH48110-2 filter
- Removed, cleaned, gapped, tested and re-installed spark plugs
- Replaced air inlet filter with new element
- Performed comprehensive exhaust system inspection and exhaust system pressure test with no defects noted

Airworthiness Directives

- AD's checked through this date 12/01/2024. See attached AD report

General Maintenance

- Timed Magnetos to 24 degrees

I certify that this ENGINE has been inspected in accordance with a 100 Hr/Annual Inspection and was determined to be in airworthy condition.

Brett J. Kurth A&P/IA 3874583 

DATE: 12/01/2024
ENG TSOH: 1,436.4
ENG TSN: 3,411.5
TACH: 126.8

WORK

DATE: 02/10/2025
ENG TSOH: 1,532.9
ENG TSN: 3,508.0
TACH: 223.3

Alpha Bravo

MAKE: LYCOMING
MODEL: O-320-E3D
S/N: L-30971-27A
REG #: NS040M

Mandatory Part 91 Maintenance & Life Limits

- Performed 100 Hour/Annual Inspection in accordance with FAR 43 Appendix D with reference to BEECH Maintenance Manual.
- Compressions: #1 79/80 #2 77/80 #3 79/80 #4 78/80

Manufacturers Time Limits, Inspections & Instructions for Continued Airworthiness

- Changed oil & filter, serviced with Phillips XC 20W50 oil and new challenger reusable filter p/n: CP48110C. See attached STC and 337 dated 02/10/2025 for installation.
- Removed, cleaned, gapped, tested and re-installed spark plugs
- Replaced air inlet filter with new element
- Performed comprehensive exhaust system inspection and exhaust system pressure test with no defects noted

Airworthiness Directives

- AD's checked through this date using ADTOOLBOX. See attached AD report dated 02/10/2025.

General Maintenance

- Timed Magnetos to 24 degrees
- Removed carburetor p/n: 10-5217 s/n: MS0E4U22 and installed overhauled carb p/n: 10-5217 s/n: 10-5217
- Replaced Bottom #2 & #4 spark plugs and #1 Top with new p/n: CHAMPION RHM40E.

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

Brett J. Kurth A&P/IA 3874583 

DATE: 03/31/2025
ENG TSOH: 1,615.4
ENG TSN: 3,590.5
TACH: 305.8

Alpha Bravo

MAKE: LYCOMING
MODEL: O-320-E3D
S/N: L-30971-27A
REG #: NS040M

Mandatory Part 91 Maintenance & Life Limits

- Performed 100 Hour/Annual Inspection in accordance with FAR 43 Appendix D with reference to BEECH Maintenance Manual.
- Compressions: #1 78/80 #2 76/80 #3 77/80 #4 77/80

Manufacturers Time Limits, Inspections & Instructions for Continued Airworthiness

- Changed oil & filter, serviced with Phillips XC 20W50 oil and removed, inspected, & reinstalled challenger reusable filter
- Removed, cleaned, gapped, tested and re-installed spark plugs
- Replaced air inlet filter with new element
- Performed comprehensive exhaust system inspection and exhaust system pressure test with no defects noted

Airworthiness Directives

- AD's checked through this date using ADTOOLBOX. See attached AD report dated 03/31/2025.

General Maintenance

- Timed Magnetos to 24 degrees

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

Brett J. Kurth A&P/IA 3874583 

DATE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED -- SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK	
6/12/21	5082.4	Drained Oil Serviced with 6 qts Phillips Victory oil 20w/50 Signed: <i>[Signature]</i> CFI 4050980 8/21	
7/24/21	5111.1	Drained Oil Serviced with 7 qts Phillips Victory oil 20w/50 Replaced Oil Filter with AA4810-2. Cut open oil Filter No abnormalities Signed: <i>[Signature]</i> CFI 4050980 8/21	
<p>N#: 5040M Mfg: Lycoming Model: O-320-E3D SN: L-30971-27A Date: 08-02-2021 AFT: : Tach: 5123.02</p> <p>Performed the following maintenance:</p> <p>-Removed #1 cylinder due to apparent leaking cylinder base seal. Cleaned and inspected cylinder/ piston assemblies. No defects noted. Reinstalled cylinder assembly with all new seals and gaskets seal kit P/N SL12032-SC IAW Lycoming Direct drive Overhaul Manual. Torqued ½ "cylinder base nuts to 600 in lbs and 3/8" cylinder base nuts to 300 in lbs . Reinstalled intake tube and exhaust pipe with new gaskets. Ground run leak check satisfactory</p> <p>This aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and is approved for return to service for the work performed.</p> <p>Signed: <i>[Signature]</i> Cass Monnin A&P 3414130 IA</p> <p>Ridgeline Aviation 3910 Airport Way E Wenatchee WA</p> 			
8/16/21	5186.2	Drained Oil Serviced with 6 qts Phillips Victory oil 20w/50 Signed: <i>[Signature]</i> CFI 4050980 8/23	
<p>N#: 5040M Mfg: Lycoming Model: O-360-E3D SN: L-30971-27A Date: 08-26-2021 AFT: 3155.91 Tach: 5152.91</p> <p>Scheduled Maintenance:</p> <ul style="list-style-type: none"> Complied with 100hr inspection IAW FAR 43 Appendix D using Ridgeline Aviation 100hr/Annual inspection checklist. Cylinder compressions as follows: #1 75/80 #2 77/80 #3 77/80 #4 76/80 Drained engine oil, removed filter, examined filter elements for contamination, no abnormalities found. Removed oil sump screen, some abnormal carbon and metal particles were present. Cleaned and reinstalled sump screen with a new AN900-16 gasket and safety wired. Installed new AA4810-2 filter, torqued to 16 ft lbs, and safety wired. Serviced engine with 6 qts Phillips Victory 20w-50 oil. Performed satisfactory ground run and leak check. Recommend reinspecting oil sump screen at next oil change. Cleaned, inspected, serviced, gapped, and rotated spark plugs using new M674 gaskets. Checked magneto timing, Left @ 29 degrees Right @ 28 degrees, retimed both magnetos to 25 degrees BTDC Lubricated and inspected engine controls. <p>Airworthiness Directives:</p> <ul style="list-style-type: none"> Reviewed all applicable airworthiness directives through this date. See AD log. <p>I certify this Engine has been inspected in accordance with 100 HR inspection and was determined to be in airworthy condition.</p> <p>Signed: <i>[Signature]</i> Brandon Rodstol 2839409 AP</p> <p>Ridgeline Aviation LLC 3910 Airport Way E Wenatchee WA</p> 			
9/21/21	5181.2	Drained oil Serviced with 6 qts Phillips Victory O-1 20w/50 Signed: <i>[Signature]</i> CFI 4050980 8/23	

DATE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED -- SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK	
10/8/21	5204.4	Drained O-1 Serviced with 7 qts Phillips Victory oil 20w/50 Replaced oil Filter with CH48110-1. Cut open oil Filter No abnormalities found. Signed: <i>[Signature]</i> CFI 4050980 8/23	
<p>N#: 5040M Mfg: Lycoming Model: O-360-E3D SN: L-30971-27A Date: 05-23-2022 AFT: 3222.04 TSMOH: 1246.94 Tach: 5219.04</p> <p>Scheduled Maintenance:</p> <ul style="list-style-type: none"> Complied with Annual inspection IAW FAR 43 Appendix D using Ridgeline Aviation 100hr/Annual inspection checklist. Cylinder compressions as follows: #1 77/80 #2 78/80 #3 72/80 #4 76/80 Drained engine oil, removed filter, examined filter elements for contamination, no abnormalities found. Removed oil sump screen, some ferrous metal particles were present. Cleaned and reinstalled sump screen with a new AN900-16 gasket and safety wired. Installed new CH48110-1 filter, torqued to 16 ft lbs, and safety wired. Serviced engine with 8 qts Phillips Victory AW 20w-50 oil. Performed satisfactory ground run and leak check. Recommend reinspecting oil sump screen at next oil change. Cleaned, inspected, serviced, gapped, and rotated spark plugs using new P1003 gaskets. Checked magneto timing, Left @ 25 degrees Right @ 26 degrees, adjusted RH magneto timing to 25 degrees BTDC. Lubricated and inspected engine controls. <p>Unscheduled Maintenance:</p> <ul style="list-style-type: none"> Applied Pro Seal to crankcase FWD lower seam to help with oil weeping from that area. Repaired #1 cylinder side baffle support using .032 2024 T3 aluminum and rivets. <p>Airworthiness Directives:</p> <ul style="list-style-type: none"> Reviewed all applicable airworthiness directives through this date. See AD log. <p>I certify this Engine has been inspected in accordance with Annual inspection and was determined to be in airworthy condition.</p> <p>Signed: <i>[Signature]</i> Brandon Rodstol 2839409 AP IA</p> <p>Ridgeline Aviation LLC 3910 Airport Way E Wenatchee WA</p> 			
8/16/21	5186.2	<p>N#: 5040M Mfg: Lycoming Model: O-320-E3D SN: L-30971-27A Date: 03-02-2023 AFT: : Tach: 5237.63</p> <p>Performed the following maintenance:</p> <ul style="list-style-type: none"> Drained engine oil, removed filter, examined filter elements for contamination, no abnormalities found. Removed oil sump screen, no contamination found, cleaned, and reinstalled sump screen with a new AN900-16 gasket and safety wired. Installed new AA48110-2 oil filter, torqued to 16 ft lbs, and safety wired. Serviced engine with 7 qts Phillips Victory AW 20w-50 oil and 8 oz of Camguard. Performed satisfactory ground run and leak check. <p>This aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and is approved for return to service for the work performed.</p> <p>Signed: <i>[Signature]</i> Brandon Rodstol 2839409 AP</p> <p>Ridgeline Aviation 3910 Airport Way E Wenatchee WA</p> 	
9/21/21	5181.2	Drained oil Serviced with 6 qts Phillips Victory O-1 20w/50 Signed: <i>[Signature]</i> CFI 4050980 8/23	



McGregor Executive Airport, McGregor TX 76657

Work Order: 18-0202 N5040M

ENG Mdl: Lycoming O- 320-E3D	ENG SN: L-30971- 27A	Position: Main	ENG TT: 4722.84		Date: 5/22/18
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Performed an Annual Inspection as required by FAR 91.409 in accordance with the Beech B19 service manual, and FAR 43 Appendix D. Accomplished the following items:

- 1) Compressions check results: 1) 79/80, 2) 75/80, 3) 79/80, 4) 76/80.
- 2) Drained oil and serviced engine with 8quarts of Aeroshell W100. Replaced oil filter with new CH48110-1. Leak check satisfactory.
- 3) Checked magneto timing.
- 4) Cleaned, gapped and rotated the plugs. Tested no defects noted re-installed them into engine.
- 5) Inspected the spark plug leads no defects noted.
- 6) Replaced the #1 & #3 cylinder valve cover gaskets P/N 75906. No leaks noted.

I certify that this engine has been inspected in accordance with an ANNUAL / 100 Hr Inspection and has been determined to be in an airworthy condition.

Gary Drapela A&P 3542901 I.A.



McGregor Executive Airport, McGregor TX 76657

Work Order: 18-0386 N5040M

ENG Mdl: Lycoming O- 320-E3D	ENG SN: L-30971- 27A	Position: Main	ENG TT: 4773.37		Date: 8/17/18
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Drained oil and serviced engine with 8quarts of Aeroshell W100. Replaced oil filter with new CH48110-1. Performed a ground run up and checked for leaks no defects noted at this time.

The above described repair or maintenance is certified airworthy and approved for return to service.

Michael Perez A&P 3813294

DATE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED -- SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK	
N#: N5040M ETT: 2878.73 Date: August 1, 2019 Tach 4875.73	7M7 Aviation, LLC 1-254-216-1136 Gatesville, Texas 7M7aviation@hotmail.com	Make: Textron Lycoming Model: O-320-E3D Serial#: L-30971-27A ETSMOH: 903.63	

- Performed an Inspection in accordance with Annual Inspection criteria.
- Performed an engine operational ground check including to full power.
- Performed engine compression check on all cylinders.
- Removed and replaced induction air filter with new BA-7305.
- Performed an oil and filter change. Removed and replaced oil filter with new CH48110-1. Cut open filter for contamination check. No contamination found at this time. Added 11 quarts of Aeroshell 100W Plus.
- Removed and replaced spark plugs with new part number REM40E.
- Removed and replaced vacuum pump with new part number AA3215CC, serial number 01ZG14.
- Removed and replaced cabin heat scat hose with new.
- Removed and replaced alternator with new part number 10-1050A, serial number H-T050359.
- Removed and replaced regulator with new part number R15V0N, serial number 60F021

Performed an Annual Inspection.

This Engine has been inspected and was found to be in an airworthy condition.

Travis Tatum

IA3211139AP

7/20/20 Tach: 4995.1 SMOH: 1023.4
Performed annual inspection. Installed new intake filter element BA-7305. Drained oil and serviced engine with Aeroshell 100P, replaced filter with AA48110-2. Cleaned, gapped, and checked spark plugs. Compression results: 1-78 2-76 3-77 4-76. Installed new valve cover gaskets RG-75906. Installed new intake gaskets 71973 and couplings 69603. Installed Overhauled carb MA-4SPA, 10-5217 S/N: MSOE4U22, See 8130. Performed ground run and set idle mixture, idle speed, and leaked check system. Steven Mcleod A&P 3370601

Date: 02/09/2021 N5040M Lycoming O-320-E3D S/N L-30971-27A Tach: 5056.04 TSMOH: 1084.04
Inspected engine in accordance with Service Manual 100 HR/Annual inspection checklist & per FAR 43. App. D. Cleaned, checked & gapped sparkplugs - ok. Checked compression #1 73/80, #2 74/80, #3 73/80, #4 71/80. Checked Ad's thru this date, see AD list for details - all prior complied with.

I certify that this engine has been inspected in accordance with an ANNUAL inspection and was determined to be in airworthy condition when list of discrepancies has been cleared. List given to owner.

Mari Elin I. Byler
A&P 3535707 IA



Baylor Aviation LLC
509.793.8134
www.bayloraviation.com

April 26, 2021 N5040M B-19
Lycoming O-320-E3D S/N L-30971-27A
Tach 5056.58

ENGINE: Drained oil, Removed, Cut, and inspected oil filter, no anomalies noted Replaced with new Filter p/n AA48110-2. Removed and inspected suction screen, no anomalies. Serviced with 7qts Phillips Victory 20w50. Reviewed list of discrepancies from annual inspection and performed the following. Resecured defrost scat tube to prevent further rubbing on engine mount. Inspected presence of sealant around crankcase hardware no corrective action required. Inspected starter installation no discrepancies noted. Inspected alternator belt in reference to cowling hardware, no discrepancies noted. Oil return lines replaced as needed. Inspected oil dipstick, missing handle does not prevent secure installation and sealing of the dipstick, no further action required. Reposition rubber cushion on primer line to prevent rubbing on clamp. Tied up loose ignition harness. Inspected engine oil preheater installation and determined pre heater installed correctly and per the manufacturer is an FAA accepted item. List of discrepancies from annual inspection cleared.

DATE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED -- SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
		<p>Sport Aviation Company 360 Howard Clemons Rd. Suite A Granbury, TX. 76048</p> <p>May 18, 2016 Tach Time: 4605.99 N5040M TSMOH: 633.99</p> <p>Engine Warmed. Oil Drained. Filter cut and inspected no contaminants found. Compression check performed results as follows: #1 78/80 #2 77/80 #3 77/80 #4 76/80. Serviced Engine with 8 Qts. Aeroshell 100W and CH48110-1 Filter. Spark Plugs cleaned gapped and rotated. Ignition timing checked and leads inspected. Run up and Leak Check Performed Satisfactory.</p> <p>Shane Stuart  A&P 3453915</p> <p>I Certify this engine has been inspected in accordance with an Annual Inspection and was determined to be in an airworthy condition.</p> <p>Shane Stuart  IA 3453915</p>

Kachemak Bay Flying Service
7720C AIRPORT RD.
TEMPLE, TX. 76504
254-773-9902

10 April 2017

N5040M Beechcraft B-19 S/N: MB-895 ACTT: 4626.2 Tach: 4626.2
Engine: Lycoming O-320-E3D S/N: L-30971-27A Eng TT: 2629.3 SMOH: 654.2
Prop: Sensenich Model: 74DM6S55-0-54 S/N: A59985 TSN: 474.5 SMOH: 474.5

- As per FAR43.13 the engine was cleaned, inspected, and serviced per Lycoming Service Manual Inspection report and a checklist meeting the scope and details outlined in App. D of FAR 43
- AD's checked thru 2017-06. See AD Compliance Report for details.
- Drained oil. Removed filter and cut open for inspection, no defects noted. Installed a new CH48110-1 oil filter and serviced engine with 8 qts of Aeroshell 100W.
- Installed new BA7305 air filter
- L/H Magneto S/N: 96110560 & R/H Magneto S/N: 98030172 removed and sent to Magneto E.R. M6RR443X for 500hr. Inspection. Reinstalled magnetos. Checked magneto to engine timing.
- Installed new magneto wiring harness P/N: M2508
- Removed, cleaned, gapped, and reinstalled sparkplugs.
- Replaced 4 ea. exhaust flange gaskets P/N: 08-05211
- Replaced 4 ea. rocker box cover gaskets P/N: 75906
- Replaced fuel pump drain line.
- Replaced crankcase vent hose flexible line.
- PowerFlow Exhaust I.C.A. complied with per Power Flower report # PFS-13850-00 dated 07/18/07 Chapter 6
- Checked cylinder compressions, #1 75/80, #2 75/80, #3 75/80, #4 75/80
- Installed all panels and covers removed for inspection. All maintenance performed I.A.W. current Lycoming Service Manuals and standards outlined in FAA AC 43.13B

I certify that this engine has been inspected IAW a 100 Hour Inspection.

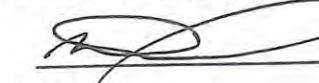
 Bryan Mangum A&P 3394692

Kachemak Bay Flying Service.
7720C AIRPORT RD.
TEMPLE, TX. 76504
254-773-9902

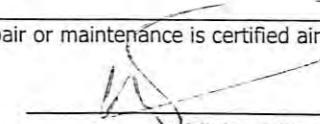
5 April 2017

N5040M Beechcraft B-19 S/N: MB-895 ACTT: 4626.2 Tach: 4626.2
Engine: Lycoming O-320-E3D S/N: L-30971-27A TSN: 2629.3 SMOH: 654.2

I certify that this engine has been inspected IAW an Annual Inspection and was found to be airworthy at this time.

 Mark McDaniel A&P2093072IA

DATE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED -- SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK						
		<p>JAG AVIATION McGregor Executive Airport, McGregor TX 76657</p> <p>Work Order: 17-0328</p> <table border="1"> <tr> <td>AC Mdl: Beech B19</td> <td>AC SN: MB-895</td> <td>Reg No: N5040M</td> <td>Tach: 4648.09</td> <td></td> <td>Date: 8/23/17</td> </tr> </table> <p>Performed the following repairs IAW the Beech B19 maintenance manual and AC 43.13-1B:</p> <ol style="list-style-type: none"> 1) Replaced engine oil with 8qts new Aeroshell W100 oil and a new filter P/N CH48110-1. 2) Replaced the oil sump gasket with a new gasket P/N LW-13353. 3) Replaced Induction tube gaskets (4) ea. P/N 71793. 4) Replaced Induction tube couplings (4) ea. P/N 69603. 5) Replaced the engine mount isolators with (4) sets P/N 94150-01. 6) Replaced a broken shielding ground wire on the LH magneto with a new 20 gauge ground wire. 7) Performed a ground run of the engine to check for leaks. No leaks detected at this time. <p>The above described repair or maintenance is certified airworthy and approved for return to service.</p>	AC Mdl: Beech B19	AC SN: MB-895	Reg No: N5040M	Tach: 4648.09		Date: 8/23/17
AC Mdl: Beech B19	AC SN: MB-895	Reg No: N5040M	Tach: 4648.09		Date: 8/23/17			

 Michael Perez A&P 3813294

JAG AVIATION McGregor Executive Airport, McGregor TX 76657

Work Order: 18-0628

ENG Mdl: Lycoming 0320-E3D	ENG SN: L30971-27A	Position: #1 N5040M	ENG TT: 4688.57	ENG TC:	Date: 1/23/18
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Tightened alt.belt.,tightened fuel line.,changed oil&filter.,Repalced deteriorated scat hose.

The above described repair or maintenance is certified airworthy and approved for return to service.
I certify that this aircraft/engine/propeller has been inspected in accordance with FAR 91.409 (F)3, has been found airworthy, and is approved for return to service.

Keith Hipp A&P #431252731 

DATE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED --	
		SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK	
		CUTTER Leading the Business of Aviation	Cutter Aviation Dallas, Inc. 1500 E Industrial Blvd McKinney TX 75069-7566
			Beechcraft
		Registration: N5040M	Tach 4422.58
		Model No. B19	
		Serial No. MB-895	
		Performed oil change in accordance with B19MM section 2. Replaced oil filter with new PN CH48110-1. Serviced with 8quarts Aeroshell 15W50. Inspected old oil filter with no defects noted. Leak check good.	
		The aircraft/component identified above was maintained or altered in accordance with current regulations of the Federal Aviation Administration and is approved for return to service for the work performed. All disrupted systems were restored and functionally tested in accordance with mfg's instructions. Pertinent details of the repair are on file at this repair station under Work Order: 06M-3333	
Date: July, 26 2013	CRS# UXCR663X	<i>Robert Fulcher</i>	

DATE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED --	
		SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK	
		CUTTER Leading the Business of Aviation	Cutter Aviation Dallas, Inc. 4500 Claire Chennault Dr. Addison, TX 75001
			Beechcraft
		Registration: N5040M	Tach 4464.68
		Model No. B19	
		Serial No. MB-895	
		Performed an 100 hour inspection in accordance with the Hawker Beechcraft 19 series maintenance manual chapter 5 100-hour checklist.	
		Compression shows #1 78/80, #2 74/80, #3 75/80, #4 73/80	
		Performed engine oil and filter change PN CH48110-1 and serviced with 8 qts Aero shell 15W50. Inspected old filter with no defects.	
		Removed engine driven fuel pump PN 15472 SN 9803 and installed overhauled engine driven fuel pump PN LW 15472 SN 04SB27 in accordance with overhauled pump installation instructions. Operational check good. No leaks.	
		Removed all four lower spark plugs from cylinders and replaced with new PN RHM 40E. Secured and torque. Function check good.	
		I certify this engine has been inspected in accordance with a 100 hour inspection and has been determined to be in airworthy condition.	
		The aircraft/component identified above was maintained or altered in accordance with current regulations of the Federal Aviation Administration and is approved for return to service for the work performed. All disrupted systems were restored and functionally tested in accordance with mfg's instructions. Pertinent details of the repair are on file at this repair station under Work Order: 06M-3499	
Date: February, 05 2014	CRS# UXCR663X	<i>Robert Fulcher</i>	

DATE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED --	
		SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK	
11-15-14		Engine Warmed, Filter removed, oil drained, checked for contamination - None noted. 8quarts of Aeroshell 15W50 added. Replaced filter # CH48110-1. Run-up and checked for leaks. None noted. <i>Shane Stuart</i> A&P 3453915	
		NINE HOURS. Standard 100 and CH48110-1 oil filter. Run up & leak check performed satisfactory.	
		<i>Shane Stuart A&P 3453915</i>	

DATE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED --	
		Sport Aviation Company 360 Howard Clemons Rd. Suite A Granbury, TX. 76048	
February 21, 2015	N5040M	Tach Time: 4540.49 TSMOH: 668.49	
		Engine Warmed, Oil Changed, Compression Check Performed, results as follows: #1 78/80 #2 76/80 #3 76/80 #4 78/80. Plugs cleaned gapped and rotated. Verified Mag Timing, Inspected ignition Leads. Complied with AD 98-02-08, No Corrosion found Painted Internal Bore with Urethabond 104, stamped crank with PID, No further action is required. Run Up and leak check performed satisfactory.	
		Shane Stuart	<i>Shane Stuart</i> A&P 3453915
		I Certify this engine has been inspected In accordance with an annual Inspection and was determined to be in an airworthy condition.	
		Shane Stuart	<i>Shane Stuart</i> IA 3453915
8-7-15	4573.21	Engine warmed, filter removed, oil drained, checked for contamination - None noted. 8quarts of Aeroshell 15W50 added. Replaced filter # CH48110-1. Run-up and checked for leaks. None noted. <i>Shane Stuart A&P 3453915</i>	
9-19-15	4574.0	Replaced All 8 Plugs with PN RHM40E AFTER Noting Engine Roughness on flight home from Hinton, OK (208)	
		Sport Aviation Company 360 Howard Clemons Rd. Suite A Granbury, TX. 76048	
November 3, 2015	N5040M	Tach Time: 4575.5 TSMOH: 603.5	
		Removed #4 Cylinder to facilitate replacement of fractured cylinder hold down studs. Replaced all hold down studs P/N 38-13 and 50-15 at # 4 Cylinder in accordance with Lycoming SI 1290F and Torqued In Accordance with Lycoming SI 1029D. Repaired Baffling as required. Removed carb for repair by Aircraft Carb and Fuel Injection, ref WO# 5960, Adjusted Idle speed and Mixture. Run Up and Leak check performed satisfactory.	
		Shane Stuart	<i>Shane Stuart</i> A&P 3453915

DATE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED -- SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
7-12-09	9262 02	<p>100hr inspection- all com. #272/180 #375/180 #479/180. changed oil & oil filter, added 7qts aeroshell 50wt plus oil. cleaned & gaped plugs installed new air filter lube & ck. all controls & exhaust system over ck. o.k I certify that this engine has been inspected I/Ace an 100hr inspection and was determined to be in airworthy condition.</p> <p>William M. Staines A&P 413-86-3051 1/A</p>
8-1-08	Tach. T 9293.	<p>changed oil & oil filter added 7qts aeroshell 50wt plus oil.</p> <p>William M. Staines A&P 413-86-3051</p>
		<p>Date 8-27-09 Total Time 395. 8/1/09/H Tach/Hobbs Time 4367.52 I certify that this engine has been inspected in accordance with a 100hr inspection and was determined to be in an airworthy condition.</p> <p>Signed William Staines A&P No. 413-86-3051 1/A</p>

DATE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED -- SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK						
		<p>Date 8-16-10 Total Time 416 51m/0/H Tach/Hobbs Time 4378.35 I certify that this engine has been inspected in accordance with a 100hr inspection and was determined to be in an airworthy condition.</p> <p>Signed William Staines A&P No. 413-86-3051 1/A</p> <p>changed oil & oil filter added 7qts aeroshell 100 plus. com all 72 & better lube & ck all controls & ck. exhaust system over. o.k.</p> <p>ENGINE LOG ENTRY August 01, 2012 Textron Lycoming O-320-E3D S/N L-30971-27A TACH: 4378.91 TT: 2382.1 TSMO: 406.91 Performed an annual insp. on this eng. IAW Beechcraft MM and Far 43 appendix D as applicable. Compressions: # 1 78 # 2 75 # 3 73 # 4 75. Clean, gap and test plugs. Replaced oil filler tube gasket. Run chk. ok. no leaks noted. I certify this eng. was insp. IAW an annual insp. and was determined to be in airworthy condition. AD's chkd thru 2012-14. See compliance sheet.</p> <p>Matthew Parish AP 3249197 1/A Matthew AP 3249197 1/A</p> <div style="display: flex; justify-content: space-between;"> <div style="width: 30%;">  <p>CUTTER Leading the Business of Aviation</p> <table border="1"> <tr><td>Registration:</td><td>N5040M</td></tr> <tr><td>Model No.</td><td>B19</td></tr> <tr><td>Serial No.</td><td>MB-895</td></tr> </table> </div> <div style="width: 30%;"> <p>Cutter Aviation Dallas, Inc. 1500 E Industrial Blvd McKinney TX 75069-7566</p> <p>Engine Log Entry PN O-320-E3D SN L30971-27A</p> </div> <div style="width: 30%;">  <p>Tach 4384.04</p> </div> </div> <p>Performed an 100 hour inspection in accordance with the Hawker Beechcraft 19 series maintenance manual chapter 5 100-hour checklist. Compression shows #1 76/80. #2 74/80. #3 78/80. #4 76/80. Performed engine oil and filter change PN CH48110-1 and serviced with 8 qts Aeroshell 15W50. inspected old filter with no defects. Cleaned oil strainer and reinstalled with new gasket PN MS35769-21. Replaced engine hoses (except type D) with new PN 24F002-8CR0363, 124F001-6CR0080, 124F001-3CR0124, 124F001-3CR0044, and 124F001-3CR0200. Operational and leak checks are good. I certify this engine has been inspected in accordance with a 100 hour inspection and has been determined to be in airworthy condition.</p> <p>The aircraft/component identified above was maintained or altered in accordance with current regulations of the Federal Aviation Administration and is approved for return to service for the work performed. All disrupted systems were restored and functionally tested in accordance with mfg's instructions. Pertinent details of the repair are on file at this repair station under Work Order 06M-3141.</p> <p>Date: January, 29 2013 CRS# UXCR663X</p> <p>Robert Fulcher</p>	Registration:	N5040M	Model No.	B19	Serial No.	MB-895
Registration:	N5040M							
Model No.	B19							
Serial No.	MB-895							

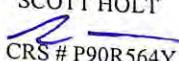
DATE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED -- SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
9/26/05	4182.7	TSO 210.7 DRAINED OIL, INSPECTED FILTER AND SCREEN, NO DEFECTS. INSTALLED NEW FILTER P/N CH48110 AND SERVICED WITH 8 QTS AEROSHELL 100 PLUS. J. H. M. ATP 431159002
7/15/06	4206.8	TSO 234.8 Changed Oil and Filter. Serviced with seven (7) quarts of Aeroshell 80W (AD). Replaced filter with Champion CH48110-1 Oil Filter. Engine was run and checked for leaks. Aircraft returned to service. Donald B. Robinson 2685578 AAF

PRECISION AEROSPACE TECHNOLOGIES INC.
LYCOMING 0-320-E3D * S/N L-30971-27A * TACH: 1751.4 * MAY 17, 2006

TTE: 2210.9 * SMOH: 235.8

COMPLIED WITH A 100-HOUR INSPECTION PER TITLE 14 CFR PART 43, APPENDIX D. DRAINED OIL REMOVED, CUT & INSPECTED OIL FILTER, NO FILTER CONTAMINATION NOTED. INSTALLED A NEW CHAMPION CH48110-1 OIL FILTER AND SERVICED ENGINE WITH 7 QUARTS AEROSHELL W100 OIL. INSTALLED NEW TACH DRIVE GARLOCK SEAL P/N 642714, GASKET P/N 632085, AND NEW RAPCO RA215CC DRY AIR PUMP S/N A20579. CHECKED ENGINE COMPRESSION: #1 78/80 #2 77/80 #3 77/80 #4 77/80. CONNECTED LOOSE PRIMER LINE; CORRECTED CHAFFING BETWEEN PRIMER LINE AND #3 INTAKE. INSTALLED NEW VACUUM PUMP GARLOC SEAL P/N 06A19956 AND GASKET P/N 8313. RIGGED MIXTURE CABLE. REMOVED STARTER P/N MZ-4222-R AND INSTALLED NEW SkyTec STARTER P/N 149-NL S/N FN-450507. INSTALLED NEW SAF-AIR OIL DRAIN VALVE P/N 07-00879. ENGINE GROUND RUN & LEAK CHECK OK.

THIS ENGINE & PROPELLER WERE INSPECTED IN ACCORDANCE WITH A 100-HOUR INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION.
 IN ACCORDANCE WITH THE WORK MENTIONED ABOVE THIS ARTICLE IS APPROVED FOR RETURN TO SERVICE.
 ALL LEAK CHECKS FUNCTION CHECKS AND/OR INSPECTIONS WERE DONE IN ACCORDANCE WITH APPLICABLE MAINTENANCE MANUALS. DETAILS OF THE WORK PERFORMED CAN BE FOUND AT THIS AGENCY UNDER WORK ORDER NUMBER 5174.

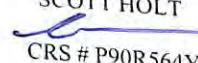
SCOTT HOLT

 CRS # P90R564Y

PRECISION AEROSPACE TECHNOLOGIES INC.
LYCOMING 0-320-E3D * S/N L-30971-27A * TACH: 4261.26 * SEPTEMBER 10, 2007

TTE: 2264.26 * SMOH: 289.16

COMPLIED WITH A 100-HOUR INSPECTION PER TITLE 14 CFR PART 43, APPENDIX D. DRAINED OIL. OBTAINED S.O.A.P. SAMPLE. REMOVED, CUT & INSPECTED OIL FILTER, NO FILTER CONTAMINATION NOTED. INSTALLED A NEW CHAMPION CH48110-1 OIL FILTER AND SERVICED ENGINE WITH 8 QUARTS AEROSHELL W100 PLUS OIL. CHECKED ENGINE COMPRESSION: #1 78/80 #2 76/80 #3 78/80 #4 76/80. ENGINE GROUND RUN & LEAK CHECK OK.

THIS ENGINE & PROPELLER WERE INSPECTED IN ACCORDANCE WITH A 100-HOUR INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION.
 IN ACCORDANCE WITH THE WORK MENTIONED ABOVE THIS ARTICLE IS APPROVED FOR RETURN TO SERVICE.
 ALL LEAK CHECKS FUNCTION CHECKS AND/OR INSPECTIONS WERE DONE IN ACCORDANCE WITH APPLICABLE MAINTENANCE MANUALS. DETAILS OF THE WORK PERFORMED CAN BE FOUND AT THIS AGENCY UNDER WORK ORDER NUMBER 5859.

SCOTT HOLT

 CRS # P90R564Y

DATE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED -- SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
N5040M	Date: 6-16-2001	Tach: 4120.1 TSO: 148.1 TTE: 2122.9 Performed annual inspection per FAR 43 Appendix D and a checklist. Cleaned, gapped, and rotated sparkplugs, Compression: #1-75/80; #2-76/80; #3-76/80; #4-76/80, Replaced #1 cylinder intake pushrod tube and seals, SB NE-01-22 n/a by date code, C/W AD 2000-18-53 Oil Converter Plate n/a by model. I certify this engine has been inspected IAW an annual inspection and was determined to be in airworthy condition at this time and is approved for return to service. <i>Dana Brewer 507646159IA</i>
N5040M	Date: 8-6-2002	Tach: 4131.2 TSO: 159.2 TTE: 2134.0 Performed annual inspection per FAR 43 Appendix D and a checklist. Cleaned gapped and rotated sparkplugs, Drained oil, inspect/replaced filter CH48110 and serviced with Phillips XC 20/50, Compression: 1-75; 2-76; 3-76; 4-73 C/W AD 2002-12-07 Oil Converter Plate Gasket n/a by model no further action required. I certify this engine and propeller have been inspected IAW an annual inspection and were determined to be in airworthy condition at this time and are approved for return to service. <i>Dana Brewer 507646159IA</i>
N5040M	Date: 9-14-2003	Tach: 4142.2 TSO: 170.2 TTE: 2145.0 Performed annual inspection per FAR 43 Appendix D and a checklist. Cleaned gapped and rotated sparkplugs, Compression /80: 1-72; 2-72; 3-74; 4-73, I certify this engine and propeller have been inspected in accordance with an annual inspection and were determined to be in airworthy condition at this time and are approved for return to service. <i>Dana Brewer 507646159IA</i>
N5050M	Date: 6/1/2005	4154.7 Tach: 5141.7 TTE: 2154.5 TSO: 179.7 Performed an annual inspection on this engine in accordance with FAR 43, Appendix D, and Beech Aircraft Service Manual. Performed compression test @80 PSI: #1-79; #2-75; #3-78; #4-74. Cleaned, gapped and rotated spark plugs, replaced #1 cylinder pushrod seals and o-rings. Disassembled engine and performed inspection replaced 2 each hydraulic lifter assy's, installed serviceable crankshaft and camshaft, installed serviceable crankshaft gear P/N 13519646, replaced #1 cylinder assy P/N LW-12416- all steel parts magnafluxed and reassembled engine per Lycoming overhaul manual, serviced with Aeroshell 100 mineral oil. Complied with A.D. 04-10-14 C1 Crankshaft Gear and Gear Retaining Bolt by replacing new bolt and lock plate. I certify this engine has been inspected in accordance with an annual inspection and was found to be in an airworthy condition at this time and is approved for return service. <i>Dana Brewer 507646159IA</i>
8/9/05		8/9/05 Tach 4168.0 Installed New Oil Line P/N. SD 57051 RS-D6100608 TSO CS3 TC 111F417-8D0464. Run up & Checked for Oil leaks. All checked OK. C ZL AP27401091

DATE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED -- SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK																																									
<p style="text-align: center;">WESTERN SKYWAYS, INC. 1865 Iauna Dr. Montrose, Colorado 81401</p> <p>Engine Make: LYCOMING Model: O-320-E3D</p> <p>Serial Number: L-30971-27A W/O No. 11237 Date: 6-01-98</p> <p>Warranty Number: 99081 Warrenty Start Date: 7-98</p> <p>Gold Seal aircraft engine per LYCOMING Manual No. 60294-7-4</p> <p>This engine & accessories were remanufactured to "Factory NEW Tolerances". See back section for Airworthiness Directive & Service Bulletin compliances. This engine was run in a test cell. Total Previous Time: 1975.1 Hrs.</p> <p>The accessories listed below were overhauled and supplied with this engine:</p> <table border="1"> <thead> <tr> <th>Part No.</th> <th>Serial No.</th> <th>Part No.</th> <th>Serial No.</th> </tr> </thead> <tbody> <tr> <td>L/H Mag:</td> <td>4372</td> <td>96110560</td> <td>Prop Gov:</td> <td>N/A</td> </tr> <tr> <td>R/H Mag:</td> <td>4370</td> <td>98030172</td> <td>Alt/Gen:</td> <td>N/A</td> </tr> <tr> <td>Fuel Pump:</td> <td>LW15472</td> <td>803</td> <td>Wastegate:</td> <td>N/A</td> </tr> <tr> <td>Inj/Carb:</td> <td>10-5217R</td> <td>CK47706</td> <td>Controller:</td> <td>N/A</td> </tr> <tr> <td>Man Valve:</td> <td>N/A</td> <td>Controller:</td> <td>N/A</td> </tr> <tr> <td>Starter:</td> <td>MZ4222R</td> <td>6R000049</td> <td>Releif Valve:</td> <td>N/A</td> </tr> <tr> <td>Turbo:</td> <td>N/A</td> <td>Vac Pump:</td> <td>N/A</td> </tr> <tr> <td></td> <td></td> <td>Oil Pump:</td> <td>N/A</td> </tr> </tbody> </table> <p style="text-align: center;">MAINTENANCE RELEASE</p> <p>The engine and accessories identified above were repaired and inspected in accordance with current Federal Aviation Regulations and were found airworthy for return to service. Pertinent details of this repair are on file at this repair station on above work order.</p> <p>Signature <u>D. Brewer</u> Repair Station No. WS9R575J</p>			Part No.	Serial No.	Part No.	Serial No.	L/H Mag:	4372	96110560	Prop Gov:	N/A	R/H Mag:	4370	98030172	Alt/Gen:	N/A	Fuel Pump:	LW15472	803	Wastegate:	N/A	Inj/Carb:	10-5217R	CK47706	Controller:	N/A	Man Valve:	N/A	Controller:	N/A	Starter:	MZ4222R	6R000049	Releif Valve:	N/A	Turbo:	N/A	Vac Pump:	N/A			Oil Pump:	N/A
Part No.	Serial No.	Part No.	Serial No.																																								
L/H Mag:	4372	96110560	Prop Gov:	N/A																																							
R/H Mag:	4370	98030172	Alt/Gen:	N/A																																							
Fuel Pump:	LW15472	803	Wastegate:	N/A																																							
Inj/Carb:	10-5217R	CK47706	Controller:	N/A																																							
Man Valve:	N/A	Controller:	N/A																																								
Starter:	MZ4222R	6R000049	Releif Valve:	N/A																																							
Turbo:	N/A	Vac Pump:	N/A																																								
		Oil Pump:	N/A																																								

DATE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED -- SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
6/1/98	3972.0	TTE: 1975.1 TSO 0.0 This engine installed on N15040M. see AIRFRAME Log. Dana Brewer 507646159IA
7/28/98	3983.19	TSO: 11.2 DRAINED AND SERVICED OIL
8/4/99	4032.5	TSO: 60.5 DRAINED AND SERVICED OIL
6/1/00	4057.3	TTE: 2060.1 TSO: 85.3 C/W ANNUAL INSPECTION IAW FAR 43 Appendix D AND A checklist. Reset + R/H MAG TIMING, SAFETIED ALTERNATOR; COMP. CHECK #1-76/80, #2-74/80, #3-75/80, #4-76/80, SAFETIED CARBURATOR to INTAKE PLUNUM bolts; CLEANED, GAPPED, ROTATED SPARK PLUGS. I CERTIFY THIS ENGINE HAS BEEN INSPECTED IAW AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION APPROVED FOR RETURN TO SERVICE. Dana Brewer 507646159IA
6-19-00	4057.9	DRAINED OIL, INSPECTED FILTER AND SCREEN, NO DEFECTS NOTED. INSTALLED NEW FILTER P/N CH48110 AND SERVICED WITH 8 QTS PHILLIPS XC 20/50. Dana Brewer 507646159IA
8-8-00	4107.5	DRAINED OIL, INSPECTED, FILTER AND SCREEN OK. INSTALLED NEW FILTER CH48110 AND SERVICED W/ 8 QTS ACROSS PHILLIPS XC 20/50 Dana Brewer 507646159IA

ENGINE MAINTENANCE RECORDS

Log No. _____

Aircraft Registration No. _____

Engine Manufacturer _____

Model _____

Serial No. _____

Date installed on aircraft N5040M

JULY 1998

Time Between Overhauls (TBO) _____ Hours

If used on multi-engine aircraft:

RIGHT

LEFT

FRONT

REAR

ENGINE LOG



The Standard

FEBRUARY 1981 TO JUNE 1998

BOOK 1

ENGINE

DATE 1995	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
6-29	3904.2	190	TSMOT	<p>Cylinder Compression Checks as Follows #1 $7\frac{1}{2}/80$, #2 $7\frac{1}{4}/80$, #3 $7\frac{1}{2}/80$, #4 $7\frac{1}{2}/80$. CHANGED OIL & OIL FILTER, ADDED Phillips 20W50 XC. Inspected Oil Cover by Press Value per Lycoming SB . (NOLAS Magno Timing</p> <p>I CERTIFY THAT THIS <u>AIRCRAFT ENGINE</u> HAS BEEN INSPECTED IN ACCORDANCE WITH ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIR WORTHY. CONDITION. TACH 3904.2</p> <p>DATE <u>6-29-95</u> NAME <u>JASchindlauer</u> AIP 133410257</p>

DATE 1997	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
3-15	3921.3		1925.3	<p>SMOH. CYLINDER COMPRESSION CHECKS GOOD ALL CYLINDERS. CHANGED OIL-ADDED PHILLIPS 20W50 XC, REPLACED OIL FILTER- INSTALLED CN48110 FILTER- CUT OPEN OLD FILTER- NO METAL FOUND. MAGNETO TIMING CHECKED OK BOTH MAGS. SEE N5040M AD COMPLIANCE REPORT DATE 3-7-97 FOR LISTING OF ENGINE AD NOTES. I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN AN ANNUAL INSPECTION & WAS DETERMINED TO BE IN AIR WORTHY condition AT THIS TIME. <u>Jack A Schindlauer</u> AIP 1334022A 3/15/97</p>
6/1/98	3972.0			<p>This ENGINE REMOVED for OVERHAUL BY CFS # W59R575 J. Dana Brewer 5076461592A</p> <p>See NEW ENG LOG</p>

DATE 19 91	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
11-9.	3883.08			Changed oil & filter (Phillips 20W50) 7Gts. (compression test as follows ① 77/80 @ 72/80 ③ 75/80 @ 75/80, Serviced spark plugs, carb filter, fuel strainer. Checked magneto timing. Ignition leads. Inspected fuel, intake, exhaust, mufflers, oil & electrical syst. for security and leakage. Serviced induction filter. Ground run-up and leak check performed. I certify that this powerplant has been inspected IAW a 100hr inspection and was determined to be in an air worthy condition. Michael J. Zander ACP 316-74-4048

I CERTIFY THAT THIS AIRCRAFT ENGINE/PROPELLER HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIR WORTHY CONDITION. TACD 3883

DATE 11/2/91 NAME J. Schiedlern
A/C P10341002TA

DATE 19 93	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
1-26-93	3889.08			Compression test all 75/80+. Checked timing, gearbox, spark plugs. Serviced, lubed, checked travel of engine controls. Inspected prop, spinner, and mounting hardware. (Changed oil used Phillips XC 20W50.)
				ENGINE / PROPELLER
				ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIR WORTHY
				TACD 3889.08
1-26-93	AP 316-74-4040			Michael Zander DATE 31-93 NAME <u>J. Schiedlern</u> A/C P10341002TA
1994	3896.06 TACH			CYLINDER COMPRESSION CHECKS GOOD ALL CYLINDERS, BOTTLED OIL & OIL FILTER, ADDED PHILLIPS 20W50XC OIL. AD NOTE 93-18-03 DOES NOT APPLY TO THE CARBURETOR INSTALLED AT THIS TIME - THE CARBURETOR HAS A ONE-PIECE VENTURI INSTALLED. I CERTIFY THAT THIS AIRCRAFT ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION & WAS DETERMINED TO BE IN AIRWORTHY CONDITION AT THIS TIME.
				<u>J. Schiedlern</u> A/C P10341002TA 1/2/97

DATE 19	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
				CERTIFY THAT THIS <u>AIRCRAFT ENGINE</u> HAS BEEN INSPECTED IN ACCORDANCE
				WITH <u>AN ANNUAL</u> INSPECTION AND WAS DETERMINED TO BE IN AIR WORTHY CONDITION. TACH 3797.4
				DATE <u>8-13-88</u> NAME <u>Joe A Schneider</u> <u>ATP#34100IA</u>
				<u>9-30-88</u> Tech Time 3799.1 replaced dry air vacuum pump per accepted standards and procedures used new gasket supplied with pump. At P David O Julian 393760551

DATE 19	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
<u>88</u>				OIL CHANGED, CHANGED OIL FILTER - ADDED PHILLIPS ZONWD OIL. CLEANED & GRADDO SPARK PLUGS, MAGNETO TIMING CHANGED, TESTED IGNITION LEADS, INSPECTED MUFFLER.
				<u>AIRCRAFT Engine</u> IN ACCORDANCE AN ANNUAL WAS DETERMINED TO BE IN AIR WORTHY TACH
				DATE <u>9-17-88</u> NAME <u>Joe A Schneider</u> <u>ATP#34100IA</u>
<u>1990</u>				CHANGED OIL ADDED PHILLIPS ZONWD OIL CHANGED OIL FILTER, REPLACED DOCKER COVER GASKETS. CLEANED & GRADDO SPARK PLUGS. CLEANED MAGNETO TIMING. INSPECTED MUFFLER, CYLINDER COMPRESSION CHECKED. GOOD ALLEGORIES
				I CERTIFY THAT THIS <u>AIRCRAFT Engine</u> HAS BEEN INSPECTED IN ACCORDANCE WITH <u>AN ANNUAL</u> INSPECTION AND WAS DETERMINED TO BE IN AIR WORTHY CONDITION. TACH <u>3833 HRS</u>
				DATE <u>10-14-90</u> NAME <u>Joe A Schneider</u> <u>ATP#34100IA</u>

DATE 19	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
				AD checked through 5-86, cleaned fuel strainer. I certify that this aircraft has been checked inspected in accordance with an 100 hour inspection and was determined to be in airworthy condition. ADP 393760551 (David O'Fadden)
June 2, 1986	TACH 3711 HRS.			I CERTIFY THAT THIS AIRCRAFT ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION & WAS DETERMINED TO BE IN AIRWORTHY CONDITION. Jack A. Schneidemann ADP 1534100 IA 6/2/86
7-2-87	3748.4 HRS			
7-2-87	3748.4			Tach Time 3748.4 Performed 100 hr Inspection in accordance with Bosch Service Manual & Checklist. All AD's checked and complied with to date. Charged oil with 8qts 30w 50 Phillips, cleaned Oil Screen, cleaned gapped and tested plug leads compression test as follows: #1 158-2278-03-79-80. Trimmed mags, I certify that this engine has been inspected in accordance with an 100 hr

DATE 19	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
				inspection and was determined to be in airworthy condition. David O'Fadden ADP 393760551
7-2-87	3748.4 HRS		1752 SMOH	I CERTIFY THAT I HAVE INSPECTED THIS AIRCRAFT ENGINE IN ACCORDANCE WITH AN ANNUAL INSPECTION & DETERMINED IT TO BE IN AIRWORTHY CONDITION AT THIS TIME. Jack A. Schneidemann ADP 1534100 IA 7-2-87
8-13-88	3797.4 HRS		1801 SMOH	CLEANED & GAPPED SPARK PLUGS. CYLINDER COMPRESSION CHECKED GOOD ALL CYLS - ALL 75/80 OR BETTER. MAGNETO TIMING CHECKED. TESTED IGNITION LEADS. CHANGED OIL - ADDED PHILLIPS 20W50. INSTALLED AC OIL FILTER ADAPTER. INSTALLED CHAMPION CH48110 OIL FILTER. MUFFLER REBUILT @ STEPP & DOWLEY AVIATION BURLINN, WI - SEE TAG IN REAR OF AIRFRAME LOG RECALED ALL EXHAUST GASKETS - RE-ROUTED CARB AIR BOX BOTTLELY TO SHAFT. CHECKED STARTER BUSHINGS. - CANT REACT PLUGS - Jack A. Schneidemann ADP 1534100 IA 8/13/88

DATE 19	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
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10/20/84 (100hr cont.) I certify that this engine has been Inspected in accordance with a 100hr. inspection and was determined to be in airworthy condition.
 Robert J Paul A#P392480446

4/27/85 3685 total time 1689 T.S.M.O.H. Performed a 100hr inspection. Engine compression test results were #1 $\frac{79}{80}$, #2 $\frac{76}{80}$, #3 $\frac{79}{80}$ and #4 $\frac{76}{80}$. Drained oil, inspected screens and added 8qt Phillips X/C 20W50 oil. Cleaned, gapped, tested and reinstalled spark plugs. Retimed left magneto to engine and checked right magneto to engine timing. Inspected magneto leads. Inspected intake, exhaust, fuel, oil, and engine electrical systems and checked for security. Replaced alternator belt and retorqued to engine. Inspected prop. Checked engine controls for correct travel and lubed. Engine was ground run and leak checked. I certify that this engine has been inspected in accordance with a 100hr inspection and was determined to be in airworthy condition. End

DATE 19	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
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Robert J Paul A#P392480446

April 27, 1985 3685 total time. 1689 time since major O'Haul. I certify that this aircraft engine has been inspected in accordance with an annual inspection and was determined to be in airworthy condition at this time. John A. Schneidewind A#P1534001A 4/27/85

5-30-86 Tach Time 3711.16 performed 100 hr inspection in accordance with boeing maintenance manual and check list, changed oil with 8qt Phillips 20W50, cleaned oil screen, cleaned gapped and tested plugs, compression test as follows #1 $\frac{79}{80}$ #2 $\frac{76}{80}$ #3 $\frac{79}{80}$ #4 $\frac{77}{80}$, inspected exhaust system found no cracks in muffler, installed new EBT battery due April 1988, installed new bearings & raced on all wheel assembly, installed new points, both mags and new distributor gear and brush on right mag, timed mags to engine, loosened prop hubbed battery, lubed all center linkages

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

Sep 9, 1983 Tach 3231 HRS. installed all new spark
Plugs
Gordon C. Hitt A#P165-0056

OCT 19, 1983 Tach Reads 3305 HRS. 1319 Total
Time 514.0 Hr. 100 HR inspection completed at
This Time. oil drained screen cleaned 40 net
oil added. compression (1) 78 (2) 78 (3) 78 (4) 75
cleaned + gapped plugs checked Timing.
inspected My P.M. + Exhaust & certify That
This Engine has been inspected in accordance
with a 100 HR inspection & Found airworthy

Gordon C. Hitt A#P165-0056

12-1-83 Changed oil + screen D.I. & D.P.
H#P1571526

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

12-15-83 Tach 3403.8 TSMOD 1417.8 A 100hr.
INSPECTION completed at this Time. Comp/so
075 ② 75 ③ 71 ④ 74. Changed oil using Tex 30 AD.
Cleaned oil screen. Checked mag. Timing.
Cleaned and gapped Spark plugs. Cleaned inlet
fuel screen. Cleaned induction air filter.
checked induction and exhaust sys. Checked
prop. Washed engine + hubbed controls. I
certify this engine was inspected I.A.W.
the 100hr inspection and was found to be
airworthy at this time
Michael C. Bakem A# 305563789

2-17-84 Tach 3456.8. Changed oil using 7.9T5
Texaco 40 A.D. Cleaned screen
Michael C. Bakem A# 305563789

DATE 19__	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
7-5-83				Conduct 100 hour inspection. Change oil
3117	RTT			using 8 quarts Texaco 50 AD. Remove
1121	TSMOH			Check and clean oil screen. Cylinder leakage 1-78, 2-77, 3-78, 4-77. Clean regap, and pressure test all spark plugs. Check mag timing. Inspection done as per Beechcraft 100 hour inspection guide. Wash eng.
				Jerome Wasiliech A&P 1340064.
8-4-83	3180.56			Drain oil. Add 8 quarts 50W oil. C. M. H. A&P 1340064

DATE	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
19				
Aug 12, 1983	Tach Reads 3203 HRS.	Installed	Rebuilt	
	Altornator			
				Hermin E. Hilt A#P1650056
Aug 19, 1983	Tach Reads 3211 HRS.	Total Time 1215		
	100 HRS inspection completed at This Tim.	oil		
	changed	screen cleaned added 8qn 50 wt		
	oil compression 75/80 all cylinders checked			
	Timing cleaned & gapped Plugs checked Muffler			
	I certify that This Engine has been inspected			
	in accordance with a 100 HR inspection & Found			
	airworthy			Hermin E. Hilt A#P1650056

DATE 1982	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
4-12-82	2703.6	RTT		Installed rebuilt alternator.
	3442.4	HMT		
TTSMOH	707.6			Jerome Washichek A#P 1340064
5-19-82	2749 Hrs.	-		Drain oil. Add 8qt. 80W oil
6-24-82	2801.82 RTT			Conduct 100 hour inspection in accordance with Beechcraft light airplane series 100 hour inspection guide 130234 E. Cyl leakage ①-77 ②-73 ③-75 ④-76 Oil 8qt 50AD
TTSMOH	805.8			Jerome Washichek A#P 1340064

DATE 19	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
Aug 3, 1982	050	Tach	2850 Hrs	Oil drained added 8qt Det. oil
				Gordon C. Stiff A#P 165-0056
Sep 22, 1982				Tach Reads 2910 Hrs. T.S.M.O.H. 914 Hrs 100 HR inspection completed at this time compression ① 74 ② 76 ③ 76 ④ 76 clear + gap plugs. Oil drained screen cleaned. 40 Det oil added. Re timed left mag. checked Exactor System. checked controls. checked prop & spinner I certify that this engine has been inspected in accordance with a 100 HR inspection & found airworthy
1-19-83				Gordon C. Stiff A#P 165-0056
				Drained oil, added 8qt 30 Det Tex oil
				Michael J. Wal ③ 588-70-9269

DATE 19__	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
1-27-81	2559 hrs.	Tex. 300T-Det. Mukerji	89 hrs.	Drained oil and added 8qts P. Bataan AF4305563709
Dec 23 1981	Tach Reads 2605	T.S.M.O.H. 609	100 Hrs	inspection completed at This Time. oil drained screen cleaned added 8qts 300E Plugs cleaned & gapped compression 0.75 (2) 72 (3) 75 (4) 75 - Refined Left Mag. Repaired carb heat box cleaned primer Nozzles. Checked Exhaust & controls I certify That This Engine has been inspected in accordance with a 100 Hr inspection & found airworthy

DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
19-81	Tach 2381	2381		Changed oil 8 qts Tex 50 Det Oil Change A# 305563799
9-9-81				A.I. 81-16-05 D/N/A B7 S/N. Gary Evans A# 305563799
9/10/81	Tach 2410			A 100 hr. inspection completed at this Time. Comp/80 0 74 73 73 70 Drained oil and added 8 qts Tex. 50wt. Det. Cleaned oil screen. Checked mag. Timing. Cleaned and gapped Spark Plugs. Cleaned Carb. INLET fuel Screen cleaned induction air filter. Checked induction & exhaust sys. Washed eng. Lubed Controls. I Certify this engine was inspected I.A.W. The 100hr. inspection and was found airworthy Michael E. Batson A# 305563799

DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
9-18-81	81	Tach 2465	2465	11 hrs Replaced Pressure pump & filter. Medium Btwn A# 305563799
10-8-81	2465			Drain oil add 8 qts 50wt. SAE Gary Evans A# 305563799
10/23/81	Tach 2499	T.T. SMOH 503		A 100hr. inspection completed at this Time. Comp/80 0 76 75 75 76 Drained oil and added 8 qts Tex. 50wt. Det. Cleaned oil screen and replaced gasket. Checked mag. Timing, etc. Replaced Spark plugs. Cleaned Carb. INLET fuel screen, cleaned induction air filter. Replaced oil press. Line. Replaced fuel press. Line. Checked exhaust & induction sys. Checked accessories. Washed engine & lubed controls. I Certify this engine was inspected I.A.W. The 100hr. inspection and was found to be in an airworthy condition at this time Michael E. Batson A# 305563799

DATE 19	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
April 21, 1981	2097 HRS.	Jack Reads	101 HRS.	100 Hr. insp. completed at This Time drained oil cleaned. oil screen. added 8qt 40 Net oil. compression 0.78 (2) 75 (3) 76 (6) 76 Retimed Right mag cleaned & gapped plugs checked muffler. Lubed controls. I certify that This Engine has been inspected in accordance with a 100 Hr. insp. & found airworthy
		Gordon E. Stitt		A4P1650056

DATE 19	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
6-10-81	2205	TACH TIME	DRAIN OIL ADD 8QT 50/50 TEXACO Timing OK. compression 1 75 2 74 3 78 4 77 I certify that this eng. was insp. 1/21/81 100 Hr. insp. and was found airworthy.	Gordon E. Stitt A4P1650056
7-2-81	2260	Drain oil. Add 8qt. 50/50 (Gordon E. Stitt A4P1650056)		

The aircraft and/or component identified below was repaired and inspected in accordance with current Federal Air Regulations and was found airworthy for return to service. Pertinent details of the repair are on file at this agency under Work Order No. #23776

Engine Model 0-320-E3D Serial No. L-30971-27A
Date February 10, 1981 Signed JKB
TOTAL TIME-1,923 hrs for

G & N AIRCRAFT, INC.

GRIFFITH AIRPORT
GRIFFITH, INDIANA 46319

C. R. S. NO. 3125

Major overhaul engine to manufacturers specifications, comply with all current AD notes and Service Bulletins, overhaul or exchange Magneto's, Carburetor, Starter, and installed the following parts:

ENGINE PARTS:

1-#69371-1 gasket kit, 8-#78027 rod bolts, 8-#LW-12186 rod nuts, 1-#STD-847 crank bolts, 8-#68763 main bearing, 8-#61662 rod bearing, 4-#75413 piston, 8-#74673 piston ring, 4-#73998 piston ring, 4-#LW-13923 rod bushing, 4-#74637 rocker bushing 4-#69603 intake hose, 4-#STD-2180 cyl drain hose, 8-#78290 hyd lifters, 8-#72877 lifter bodies, 8-#60828 piston pin plug, 1-#M2363 ignition harness, 8-#REM-40E spark plugs, 1-#STD-1211 crank plugs, 4-LW-13790 shaft, 8-#LW-12892 button, 4-#60398 bushing, 1-#CH48110 oil filter, 1-#LW-13775 impeller, 1-#60746 impeller, 1-#78528 housing, 1-#76121 tach assy, 1-#1028B ball, 1-#76097 cam, 1-#61665 gear, 2-#10-90751-19 pin, 1-#M3016 washer, 4-#74230-P05 guide, 4-#61681-P05 guide, 4-#74541 valve, 8-#LW-11795 spring, 8-#LW-11800 spring, 8-#MS-13997-3 key, 4-#MS13998-3 cap, 4-#1102 plug, 2-#71646 lock-plate, 1-#MS16625-1081 ring.

MAGNETO PARTS: (S/N 0110552R & 1010217R)

1-#4251R magneto exchange, 1-#4250R magneto exchange.

CARBURETOR PARTS: (S/N BL-0-1014)

1-#13-1521 shaft, 2-#15-483 screw, 1-#16-676 kit, 1-#24-A10 spring, 3-#29-113 clip, 1-#32-32 shaft, 1-#44-49 packing, 2-#44-223 o'ring, 1-#47-828 nozzle, 2-#60-260 bushing, 2-#78-121 washer, 1-#36-525 valve, 1-#78-388 washer, 1-#78-A109 washer, 4-#78-A110 washer, 3-#82-11 pin, 1-#194-581 plunger, 1-#233-615 needle & seat, 1-#155-226 lever, 1-#17-372 roll.

STARTER PARTS: (S/N 13976)

1-#1109657 starter exchange.

END

RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
2/13/81	Installed This Engine in N 5040 in Time on airframe 1996 hrs. 100 hr in Completed at This Time. New Spark Plug installed 8 gm 30 min Jet oil added. New vacuum pump Fuel pump & carburetor installed. New Starter installed used old alternator. New fuel line installed right side of pump. I certify that This Engine has been inspected in accordance with a 100 hr inspection and airworthy		

Mark C. Hettner 4-1650056

Service Warranty

G & N Aircraft, Inc. warrants any aircraft engine remanufactured by G & N Aircraft, Inc. to be free from defects in material and workmanship under normal use and service for a period of Six (6) Months or One Hundred (100) Hours, whichever shall occur first. G & N Aircraft, Inc. will not assume freight charges, travel, or delivery expenses incurred in the execution of this warranty. Installation charges, airframe repairs, and crankcases and cylinders developing cracks after remanufacture, are not covered under the terms of this warranty.

After Six (6) Months or One Hundred (100) Hours, a pro rated warranty of Two (2) Years or Six Hundred (600) Hours, whichever shall occur first, shall apply.

This warranty does not apply unless this engine is installed properly, and maintained in accordance with the current recommendations of the manufacturer, as specified in pertinent factory manuals and/or service bulletins. This warranty will not apply to any engine which may, in any manner, have been repaired or altered outside the shops of G & N Aircraft, Inc. No warranty is made with respect to any and all engines remanufactured for customers furnishing their own parts. This warranty is expressly in lieu of all other warranties and representatives, expressed or implied, and all other obligations or liabilities on the part of G & N Aircraft, Inc.

G & N AIRCRAFT, INC.

By R E Bellwood
Title Vice President
Date February 10, 1981

Warranty Number 23996

Engine Serial Number 230971-27A

Aircraft Registration Number _____

ENGINE RECORD — GENERAL INFORMATION

MANUFACTURER Lycoming MODEL 0320-E3D

SERIAL L-30971-27A TYPE CERTIFICATE _____

THIS ENGINE IS CURRENTLY INSTALLED IN AIRCRAFT _____

MINIMUM OCTANE FUEL _____ OIL GRADE SUMMER _____ WINTER _____

MAGNETO TIME _____ POINT SETTING _____ FIRING ORDER _____

SPARK PLUG GAP _____

MFG. RECOMMENDED OVERHAUL AT _____ HOURS.

CAUTION:

Use only straight mineral oil
during break-in period or for
the first fifty (50) hours,
whichever occurs first.

The Standard



ENGINE LOG