



*The Standard*

# ENGINE LOG

ASA SE-1

| YEAR<br>20 <u>25</u><br>DATE | RECORDING<br>TACH<br>TIME | TODAY'S<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 Technician or<br>Repair Facility. (See back pages for other specific entries.)                                                                                                                                                                                                                  |
|------------------------------|---------------------------|-------------------|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2-13-25                      | 3496.1                    |                   | 3496.1                      | TSMOH 504.13 ENGINE COMPRESSIONS,<br>#1 78/80, #2 78/80, #3 78/80, #4 78/80. CLEANED ALL<br>TSMOH - 316.7 SPARK PLUGS. CLEANED AIR MAIE AIR<br>FILTER. FOR DETAILS, SEE WFO #2025-08<br>FROM JAMES AIRFRAME REPAIR.                                                                                                                                                                                                                |
|                              |                           |                   |                             | <p>I CERTIFY THAT THIS AIRCRAFT/ENGINE/PROPELLER HAS BEEN<br/>INSPECTED AND FOUND TO BE IN COMPLIANCE WITH THE REQUIREMENTS OF FAR<br/>43 PART D AND HAS BEEN FOUND SATISFACTORY FOR RETURN TO SERVICE.</p> <p>TACHOMETER <u>3496.1</u> WFO# <u>2025-08</u> <u>2013488 A+P</u></p> <p>TOTAL TIME <u>3496.1</u> DATE <u>2-13-2025</u></p> <p>SIGNATURE <u>Joan James</u></p> <p>LICENSE <u>2013488 A+P IA</u></p> <p><u>END</u></p> |

| YEAR<br>20 <u>24</u><br>DATE | RECORDING<br>TACH<br>TIME | TODAY'S<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 Technician or Repair Facility. (See back pages for other specific entries.)                                                                                                                                                                                                                                               |
|------------------------------|---------------------------|-------------------|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                              | 3480.55                   |                   | 3480.55                     | FEBRUARY 13, 2024 FOR LUSCOMBE N815B TT3480.55<br>INSTALLED AIRCRAFT ENGINE REPAIRED BY MAX<br>H STENGER JR A&P 3119283 PER PREVIOUS<br>PAGE & INVOICE #8282. COMPRESSION READING<br>PERFORMED ON 2/14/24 AFTER TEST FLIGHT<br>#1 77/80 #2 78/80 #3 78/80 #4 80/80<br>TEST FLEW AIRCRAFT THEN D/D COMP<br>CHECK ABOVE THIS AIRCRAFT MEETS THE<br>REQUIREMENTS OF AN ANNUAL INSPECTION<br>& WAS FOUND IN AIRWORTHY CONDITION<br>Arthur J. Bays IA 3193783 A&P |

| YEAR<br>20 <u>24</u><br>DATE | RECORDING<br>TACH<br>TIME | TODAY'S<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 Technician or Repair Facility. (See back pages for other specific entries.) |
|------------------------------|---------------------------|-------------------|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FEB                          | 13-24<br>3,480.55         |                   |                             | AFTER ENGINE INSTALL,<br>ENGINE WAS SERVICED w/<br>5-QTS PHILLIPS 20W-50 TYPE M<br>NEW OIL FILTER ALSO INSTALLED<br>J. Stenger, OWNER.                                                                         |
| MAY                          | 20-24<br>3,493.0          |                   |                             | CHANGED OIL FOR SEASON LAY-UP.<br>ADDED 5-QTS PHILLIPS 20-50 TYPE M<br>CHANGED OIL FILTER - OPENED<br>FILTER... NO DEBRIS FOUND<br>J. Stenger, OWNER                                                           |

[illegible][illegible]

# Engine Record General Information

Manufacturer CONTINENTAL Model C-90-12F

Serial 42519-0-12 Type Certificate \_\_\_\_\_

This engine is currently installed in aircraft: 1950 LUSCOMBE 8-F - N-815-B

Minimum Octane Fuel \_\_\_\_\_ Oil Grade: Summer 20/50 Winter 20/50

Magneto Time \_\_\_\_\_ Point Setting \_\_\_\_\_ Firing Order \_\_\_\_\_

Spark Plug Gap \_\_\_\_\_

Manufacturer's Recommended Overhaul at \_\_\_\_\_ hours

LUSCOMBE 8-F



**ENGINE**  
**AND PROPELLER LOG**

N 8158

SERIAL NO. 42519-0-12

## MEMORANDA

MEMORANDUM

DATE: 10/10/50

TO: Mr. Tolson

FROM: Mr. E. A. Tamm

SUBJECT: [Illegible]

[Illegible handwritten notes follow, including "CHANGED OIL FILTER" and "OIL FILTER" repeated multiple times.]

## PROPELLER INSPECTION & REPAIRS

[illegible]

## ENGINE LOG

| 19 | DURATION | ACCUMULATED TOTAL TIME |       | REPAIRS --- ADJUSTMENTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | SIGNATURE | LICENSE NUMBER |
|----|----------|------------------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------------|
|    |          | HOURS                  | 10THS |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           |                |
|    |          |                        |       | A/C REG # <u>N815B</u> DATE <u>5/10/14</u><br>TOTAL A/C TIME <u>3246.7</u> HRS. TACH TIME <u>3246.7</u><br>I CERTIFY THAT THIS A/C HAS BEEN INSPECTED IN ACCORDANCE WITH AN (CIRCLE ONE) ANNUAL/100 HR INSPECTION AS PER <u>POB 43 AND D</u> AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION.<br><u>James Strong</u> 18684171A<br>SIGNATURE CERTIFICATE NO./TYPE<br>TIME SINCE OVERHAUL <u>279.9</u><br>TIME SINCE TOP OVERHAUL <u>92.4</u><br><u>James Strong</u> 18684171A<br>CHANGE<br>PHILLIPS OIL<br><u>James Strong</u> |           |                |

## PROPELLER INSPECTION &amp; REPAIRS

| INSPECTION |              |                              | REPAIRS |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|------------|--------------|------------------------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DATE       | INSPECTED BY | CONDITION                    | DATE    | REPAIRS MADE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 9-17-2014  |              | TACH : 3274.5                |         | CHANGED OIL & FILTER - ADDED 4 1/2 qts. AEROSHELL W-100 (NOT MINERAL) James Strong (OWNER)                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 4-9-15     |              | TACH : 3322.4 - SMCH : 355.0 |         | THIS ENGINE HAS BEEN INSPECTED IN A 100 HR. INSPECTION. ENGINE OIL CHANGED & OIL FILTER REMOVED AND INSPECTED - NO METAL FOUND. SERVICED ENGINE OIL WITH 4.5 QTS. AEROSHELL W-100. REPLACED FILTER WITH NEW. (COMPRESSION) CHECKED COLD #1.72/80 #2 2.1/80 #3 2.1/80 #4 2.1/80. REMOVED ALL SPARK PLUGS, CLEANED, GAPPED & TESTED & REINSTALLED. ALL WIRING CHECKED FOR SECURITY & TIGHTNESS. FUEL LINE CHECKED FOR SECURITY & TIGHTNESS. ALL ENGINE CONTROLS CHECKED. THIS ENGINE HAS BEEN RE-INSPECTED. JAMES STRONG, OWNER |

## ENGINE LOG

| DATE                                                   | DURATION | ACCUMULATED TOTAL TIME |       | REPAIRS --- ADJUSTMENTS                                                                                   | SIGNATURE | LICENSE NUMBER |
|--------------------------------------------------------|----------|------------------------|-------|-----------------------------------------------------------------------------------------------------------|-----------|----------------|
|                                                        |          | HOURS                  | 10THS |                                                                                                           |           |                |
| 2012<br>10-1-12                                        |          |                        |       | ANNUAL INSPECTION PERFORMED BY JAMES STRONG<br>UNDER MY DIRECT SUPERVISION.<br>(HRS. TOWARDS A/P LICENSE) |           |                |
|                                                        | SMOH     | 208.2                  |       |                                                                                                           |           |                |
|                                                        | STOH     | 20.7                   |       |                                                                                                           |           |                |
| I Certify _____ Inspection                             |          |                        |       |                                                                                                           |           |                |
| Was Performed on this _____                            |          |                        |       |                                                                                                           |           |                |
| And Found to be Airworthy                              |          |                        |       |                                                                                                           |           |                |
| Total Time <u>3195.7</u> hrs Tach Time <u>3195</u> hrs |          |                        |       |                                                                                                           |           |                |
| <u>10/1/12</u>                                         |          |                        |       |                                                                                                           |           |                |
| Date                                                   |          |                        |       |                                                                                                           |           |                |
| Charles L. Szafarczyk                                  |          |                        |       |                                                                                                           |           |                |
| A/P 51243313 IA                                        |          |                        |       |                                                                                                           |           |                |

## ENGINE LOG

| DATE                                                                                                                                                                    | DURATION | ACCUMULATED TOTAL TIME |       | REPAIRS --- ADJUSTMENTS                                                                                                             | SIGNATURE | LICENSE NUMBER |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------|-----------|----------------|
|                                                                                                                                                                         |          | HOURS                  | 10THS |                                                                                                                                     |           |                |
| 2013<br>8-24-13                                                                                                                                                         |          | 3237.5                 |       | CHANGED OIL & FILTER - ADDED 4 1/2 qts<br>AEROSHELL 100 MINERAL.<br>James R. Strong (owner)                                         |           |                |
| 8-28-13                                                                                                                                                                 |          | 3239.1                 |       | CLEANED & ROTATED SPARK PLUGS<br>COMPRESSION TEST #1 78/80 #2 78/80 #3 78/80 #4 76/80<br>CHANGED OIL 100 MINERAL Roy Mc 550 1868417 |           |                |
| CHANGED THROTTLE BOLT, MIXTURE BOLT, SCAT TUBING AS<br>NECESSARY. INSTALLED PREMIXED CARLEADS TO INBOARD<br>ROOT RIBS.<br>COMPLETED SATISFACTORILY UNDER MY SUPERVISION |          |                        |       |                                                                                                                                     |           |                |
| End                                                                                                                                                                     |          |                        |       |                                                                                                                                     |           |                |

ACCUMULATED TOTAL TIME FORWARD TO TOP OF NEXT PAGE

## ENGINE LOG

| DATE<br>2012 | DURATION | ACCUMULATED<br>TOTAL TIME |       | REPAIRS --- ADJUSTMENTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | SIGNATURE | LICENSE<br>NUMBER |  |
|--------------|----------|---------------------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------------|--|
|              |          | HOURS                     | IOths |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |           |                   |  |
| 8/11/12      |          |                           |       | TACH RPTD 3175.01 REMOVED ALL CYLINDERS<br>A/C TOT TIME 3175.01 INSTALLED 4 NEW EC1<br>TITAN STEEL BORE CYLINDERS<br>P/N AEC 531629. NOTE 337'S ROBARNS<br>STC SE 1012955.<br>INSTALLED D/CAT FOLLOWING P/N 8-639615<br>REASSEMBLED FOR T4 + HATERS.<br>DISASSEMBLED + CLEANED BOTH MAGNETOS.<br>SETTIMING ROTORS. CLEANED + GROUNDED BUTTERING<br>INSTALLED NEW 10-357592 OIL SOWS, BROWER CONTACTS<br>P/N 07-06305 + CAMS 10-88543-1 + ADJUSTED<br>E-GAP TO SPEC. NEW FOLG 10-90788-5.<br>CHANGED IMPULSO FOR WITH T RESOLUTION WITH NEW 10-51724<br>INSTALLED MAGS + TITAN TO T47 SPEC.<br>ENGINE RUNNING WITH REPAIRS + RECHECKED BATTERIES<br>ENGINE RUN-UP - 140 COATS. ENGINE RUNNING FOR<br>FLIGHT TEST / BREAK-IN ONLY RAN 15.29722 |           |                   |  |

CARRY ACCUMULATED TOTAL TIME FORWARD

CARRY ACCUMULATED TOTAL TIME FORWARD TO TOP OF NEXT PAGE

## ENGINE LOG

| DATE<br>2012 | DURATION | ACCUMULATED<br>TOTAL TIME |       | REPAIRS --- ADJUSTMENTS                                                                                                     | SIGNATURE                | LICENSE<br>NUMBER |
|--------------|----------|---------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------|--------------------------|-------------------|
|              |          | HOURS                     | IOths |                                                                                                                             |                          |                   |
| 8-19-12      |          |                           |       | TACH - 3180.8<br>AEROSHELL 100 MINERAL<br>SWAPPED OUT OF CALIBRATION<br>TACH WITH REPLACEMENT TACH<br>BY CENTURY INSTRUMENT | James Redding<br>(owner) |                   |
| 9-12-12      |          |                           |       | TACH 3187.55 - CHANGE OIL + FILTER -<br>ADDED 4 1/2 qts. AEROSHELL 100 MINERAL -                                            | James Redding (owner)    |                   |

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## REPAIRS --- ADJUSTMENTS

CARRY ACCUMULATED TOTAL TIME FORWARD TO TOP OF NEXT PAGE

## REPAIRS --- ADJUSTMENTS

CARRY ACCUMULATED TOTAL TIME FORWARD TO TOP OF NEXT PAGE

# ENGINE LOG

| DATE | DURATION | ACCUMULATED TOTAL TIME |       | REPAIRS --- ADJUSTMENTS                                                                                                                                                                      | SIGNATURE | LICENSE NUMBER |
|------|----------|------------------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------------|
|      |          | HOURS                  | 10THS |                                                                                                                                                                                              |           |                |
| 2010 |          |                        |       | 100HR MAINT PERFORMED BY OWNER JAMES P STRONG UNDER MY DIRECT SUPERVISION                                                                                                                    |           |                |
|      |          |                        |       | Date <u>8-3-2010</u>                                                                                                                                                                         |           |                |
|      |          |                        |       | Total Aircraft Time <u>3101.5</u> Hours                                                                                                                                                      |           |                |
|      |          |                        |       | Tach Time <u>23.9</u> Hours                                                                                                                                                                  |           |                |
|      |          |                        |       | I certify that this <u>ENGINE</u> has been inspected in accordance with an <u>ANNUAL</u> inspection as per <u>OWNER'S</u> owner's manual and was determined to be in an airworthy condition. |           |                |
|      |          |                        |       | Charles L. Szafarczyk<br>A&P 512433131A                                                                                                                                                      |           |                |

CARRY ACCUMULATED TOTAL TIME FORWARD TO TOP OF NEXT PAGE

# ENGINE LOG

| DATE    | DURATION | ACCUMULATED TOTAL TIME |       | REPAIRS --- ADJUSTMENTS                                                                | SIGNATURE | LICENSE NUMBER |
|---------|----------|------------------------|-------|----------------------------------------------------------------------------------------|-----------|----------------|
|         |          | HOURS                  | 10THS |                                                                                        |           |                |
| 2010    |          |                        |       |                                                                                        |           |                |
| 11-8-10 | TACH     | 2355.0                 |       | CHANGE OIL & FILTER. ADDED 4.5qt. AEROSHELL 15-50. EXAMINE FILTER FOR DEBRIS - ALL OK. |           |                |

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# ENGINE LOG

| DATE           | DURATION | ACCUMULATED TOTAL TIME |        | REPAIRS --- ADJUSTMENTS                                                                                     | SIGNATURE          | LICENSE NUMBER |
|----------------|----------|------------------------|--------|-------------------------------------------------------------------------------------------------------------|--------------------|----------------|
|                |          | HOURS                  | IO THS |                                                                                                             |                    |                |
| 2009<br>9-5-09 | TACH     | 2230.7                 |        | CHANGE OIL & FILTER. 5 qts. 100 MINERAL AEROSHELL<br>CUT OPEN & EXAMINE FILTER FOR DEBRIS - NO DEBRIS FOUND | <i>[Signature]</i> |                |
| 11-18          | TACH     | 2264.3                 |        | CHANGE OIL & FILTER - 5 qts 100 MINERAL AEROSHELL<br>CUT OPEN & EXAMINE FILTER -                            | <i>[Signature]</i> |                |

CARRY ACCUMULATED TOTAL TIME FORWARD

# ENGINE LOG

| DATE         | DURATION | ACCUMULATED TOTAL TIME |        | REPAIRS --- ADJUSTMENTS                                                                   | SIGNATURE          | LICENSE NUMBER |
|--------------|----------|------------------------|--------|-------------------------------------------------------------------------------------------|--------------------|----------------|
|              |          | HOURS                  | IO THS |                                                                                           |                    |                |
| 2010<br>5-15 | TACH     | 2300.5                 |        | CHANGE OIL & FILTER. 4.5 qts<br>AEROSHELL 15-50. CUT OPEN<br>& EXAMINE FILTER FOR DEBRIS. | <i>[Signature]</i> |                |
| 8-16         | TACH     | 2310.7                 |        | CHANGE OIL & FILTER. 4.5 qts<br>AEROSHELL 15-50. CUT OPEN<br>& EXAMINE FILTER FOR DEBRIS. | <i>[Signature]</i> |                |

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| ENGINE LOG |          |                        |       |                                                      | SIGNATURE    | LICENSE NUMBER |
|------------|----------|------------------------|-------|------------------------------------------------------|--------------|----------------|
| DATE       | DURATION | ACCUMULATED TOTAL TIME |       | REPAIRS --- ADJUSTMENTS                              |              |                |
| 19         |          | HOURS                  | 10THS |                                                      |              |                |
|            |          |                        |       | Date <u>7-3-09</u>                                   |              |                |
|            |          |                        |       | Total Aircraft Time <u>2987.5</u> Hours              | <u>0</u> HRS | <u>SMOH</u>    |
|            |          |                        |       | Tach Time <u>2209.9</u> Hours                        |              |                |
|            |          |                        |       | I certify that this <u>ENGINE</u> has been inspected |              |                |
|            |          |                        |       | in accordance with an <u>ANNUAL</u> inspection       |              |                |
|            |          |                        |       | as per <u>CURRENT REPAIR</u> owner's manual and was  |              |                |
|            |          |                        |       | determined to be in an airworthy condition.          |              |                |
|            |          |                        |       | Charles L. Szafarczyk                                |              |                |
|            |          |                        |       | A&P 51243313IA                                       |              |                |

DATE

19

DON McANN

P.O. BOX 178 MIDDLESEX, N.Y. 14507

585-554-3299

4-15-05

TACH

TOTAL TIME

ENGINE INSPECTED AND REPAIRED AS NECESSARY (IRAN) IN ACCORDANCE WITH LATEST REVISION OF CONTINENTAL OVERHAUL MANUAL X30010 - MAGNAFLUX INSPECTION PERFORMED BY PENN YAN AERO ON CRANKSHAFT, CAMSHAFT, CRANK GEAR, AND CAM GEAR - CRANKSHAFT REJECTED AND REPLACED WITH NEW - CRANKCASE CLEANED - CRANKCASE REWORKED BY CRANKCASE SERVICES INC. TO ACCEPT NEW STYLE OIL SLINGER - ONE CAM FOLLOWER REPLACED WITH SERVICEABLE UNIT - HYDRAULIC UNITS CLEANED AND CHECKED - DRY CLEARANCES CHECKED AND ADJUSTED - OIL PUMP AND HOUSING INSPECTED - ENGINE ASSEMBLED WITH NEW CRANKSHAFT - STD MAIN AND ROD BEARINGS - NEW THRUST BEARINGS - NEW ROD BOLTS NUTS AND KEYS - HONED CYLINDERS CHECKED RING GAPS SIDE CLEARANCES AND SKIRT CLEARANCES AND INSTALLED NEW P05 RINGS - LAPPED ALL VALVES - SWAGED ALL PUSH ROD TUBES - REMOVED DENT FROM #4 TUBE AND HELICOILED ROCKER COVER SCREW HOLE - REPLACED LOOSE ROCKER BOSS BUSHING IN #3 AND REAMED BUSHING - COMPLIED WITH AD 94-05-05 R1 BY INSPECTION OF ROCKER BOSSES

E  
R

DATE

DURATION

ACCUMULATED  
TOTAL TIME

HOURS IOTHS

19

REPAIRS --- ADJUSTMENTS

SIGNATURE

NUMBER

BY DYE PENETRANT ON ALL CYLINDERS - REPLACED EXHAUST STUDS IN #2 - CHASED ALL SPARK PLUG THREADS - BALANCED ENGINE WITHIN 2.9 GR AND 1.9 GR OPPOSING - ENGINE BOTTOM END ACCESSORY CASE AND CYLINDERS ASSEMBLED WITH NEW SEALS GASKETS AND CRANK SEAL - NEW INTAKE HOSES AND ROCKER COVER SCREWS PROVIDED TO OWNER - NO ACCESSORY OVERHAUL OR INSTALLATION WAS PROVIDED - OIL TANK PICK UP TUBE AND ROCKER COVERS WERE NOT PROVIDED - ENGINE RETURNED TO OWNER FOR FINAL ASSEMBLY AND BREAK-IN BY CERTIFIED PERSONNEL, ADS CHECKED AND COPIES PRESENTED TO OWNER.

DON McANN

AI91445379

CARRY ACCUMULATED TOTAL TIME FORWARD TO TOP OF NEXT PAGE

I.R.A.N. @

TACH. 2,925.95

(THIS IS BY  
CURRENT TACH;  
NOT TACH IN A/C  
AT 4-15-05

| ENGINE LOG         |          |                           |       |                                                                                                                                                                                                            |           |                   |
|--------------------|----------|---------------------------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------------|
| DATE<br>2004<br>19 | DURATION | ACCUMULATED<br>TOTAL TIME |       | REPAIRS --- ADJUSTMENTS                                                                                                                                                                                    | SIGNATURE | LICENSE<br>NUMBER |
|                    |          | HOURS                     | 10THS |                                                                                                                                                                                                            |           |                   |
|                    |          |                           |       | DIFF CYLCK: #1 75/80 #2 70/80 #3 75/80 #4 68/80<br>RECHECKED AD 96-12-07 IMPULSE COUPLING OK<br>CHECKED TIMING, CHECKED OIL SCREEN OK                                                                      |           |                   |
|                    |          |                           |       | JUNE 1, 2004                                                                                                                                                                                               |           |                   |
|                    |          |                           |       | Total Aircraft Time 2925.95 Hours                                                                                                                                                                          |           |                   |
|                    |          |                           |       | Tech Time 2147.95 Hours SMCH 291.60 HRS                                                                                                                                                                    |           |                   |
|                    |          |                           |       | I certify that this <u>ENGINE</u> has been inspected<br>in accordance with an <u>ANNUAL</u> inspection<br>as per <u>CURRENT REG.</u> owner's manual and was<br>determined to be in an airworthy condition. |           |                   |
|                    |          |                           |       | <i>Charles L. Szabo</i><br>Charles L. Szabo<br>A&P 51243313IA                                                                                                                                              |           |                   |

CARRY ACCUMULATED TOTAL TIME FORWARD TO TOP OF NEXT PAGE

| ENGINE LOG         |          |                           |       |                                                                                                                                              |           |                   |
|--------------------|----------|---------------------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------------|
| DATE<br>2004<br>19 | DURATION | ACCUMULATED<br>TOTAL TIME |       | REPAIRS --- ADJUSTMENTS                                                                                                                      | SIGNATURE | LICENSE<br>NUMBER |
|                    |          | HOURS                     | 10THS |                                                                                                                                              |           |                   |
|                    |          |                           |       | AIRCRAFT EXPERIANCED ENGINE<br>FAILURE - FOLLOWED BY OFF-FIELD<br>LANDING. PROPELLER BLADE BENT<br>1 1/2" - SENT PROP FOR OVERHAUL - SEE TAG |           |                   |
|                    |          |                           |       | REMOVED ENGINE, SHIPPED TO DON MCANN<br>FOR INSPECTION, OVERHAUL.                                                                            |           |                   |
|                    |          |                           |       | CARBURATOR SHIPPED TO TELEDYNE<br>MATITUCK SERVICES FOR OVERHAUL.                                                                            |           |                   |
|                    |          |                           |       | <i>Charles L. Szabo</i><br>A&P 51243313IA                                                                                                    |           |                   |

CARRY ACCUMULATED TOTAL TIME FORWARD TO TOP OF NEXT PAGE

| DATE                                                                                                                                                                                                                                                                                                                                 | DURATION | ACCUMULATED TOTAL TIME |       | REPAIRS --- ADJUSTMENTS                                                                                                                                                                                                                          | SIGNATURE | LICENSE NUMBER |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------------------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------------|
|                                                                                                                                                                                                                                                                                                                                      |          | HOURS                  | IOths |                                                                                                                                                                                                                                                  |           |                |
| 19                                                                                                                                                                                                                                                                                                                                   |          |                        |       |                                                                                                                                                                                                                                                  |           |                |
| AUG. 6, 1998                                                                                                                                                                                                                                                                                                                         |          |                        |       | COMPLETED ANNUAL INSPECTION THIS DATE. CHECKED OIL SCREEN AND MAG TIMING. DIFF CHECK: #1- 77/80; #2- 74/80; #3- 77/80; #4- 76/80. CHECKED CARB BOOST VENTURI 1/1/1/1 AD 98-01-06. AD NOTES CHECKED TO 98-15. OPERATIONAL CHECK WAS SATISFACTORY. |           |                |
| <p>I certify that this <u>ENGINE</u> ..... has been inspected in accordance with an <u>ANNUAL</u> ..... inspection and was determined to be in air worthy condition on <u>AUG. 6, 1998</u>.<br/> Time in service <u>2913.74</u> ..... hours.<br/> Milton Leiner A &amp; P 1356775 Authorized Inspector<br/> <u>Milton Leiner</u></p> |          |                        |       |                                                                                                                                                                                                                                                  |           |                |
| TACH - 2135.74 HRS                                                                                                                                                                                                                                                                                                                   |          |                        |       |                                                                                                                                                                                                                                                  |           |                |
| S.M.O.H. - 279.60 HRS                                                                                                                                                                                                                                                                                                                |          |                        |       |                                                                                                                                                                                                                                                  |           |                |

CARRY ACCUMULATED TOTAL TIME FORWARD TO TOP OF NEXT PAGE

| DATE                                                                                                                                                                                                                                                                                                                                 | DURATION | ACCUMULATED TOTAL TIME |       | REPAIRS --- ADJUSTMENTS                                                                         | SIGNATURE | LICENSE NUMBER |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------------------|-------|-------------------------------------------------------------------------------------------------|-----------|----------------|
|                                                                                                                                                                                                                                                                                                                                      |          | HOURS                  | IOths |                                                                                                 |           |                |
| 19                                                                                                                                                                                                                                                                                                                                   |          |                        |       |                                                                                                 |           |                |
| OCT. 27, 1999                                                                                                                                                                                                                                                                                                                        |          |                        |       | INSTALLED C.A.M. M/N 1971890N, S/N 99-153-16 ENGINE STARTER CLUTCH ASSEMBLY. SEE 337 THIS DATE. |           |                |
| TACH - 2145.95 HRS                                                                                                                                                                                                                                                                                                                   |          |                        |       |                                                                                                 |           |                |
| JUNE 6, 2000: COMPLETED ANNUAL INSPECTION THIS DATE. DIFF CHECK: #1- 78/80; #2- 74/80; #3- 76/80; #4- 77/80. CHANGED OIL, 5QTS. PENNZOIL 50W. CHECKED CARB VENTURI 1/1/1/1 AD 98-01-06. CRANKSHAFT AD 98-17-11 N/A. SEE LISTING SHEET A/F LOG. AD'S CHECKED TO 2000-1. OPERATIONAL CHECK WAS SATISFACTORY.                           |          |                        |       |                                                                                                 |           |                |
| <p>I certify that this <u>ENGINE</u> ..... has been inspected in accordance with an <u>ANNUAL</u> ..... inspection and was determined to be in air worthy condition on <u>JUNE 6, 2000</u>.<br/> Time in service <u>2923.95</u> ..... hours.<br/> Milton Leiner A &amp; P 1356775 Authorized Inspector<br/> <u>Milton Leiner</u></p> |          |                        |       |                                                                                                 |           |                |
| TACH - 2145.95 HRS                                                                                                                                                                                                                                                                                                                   |          |                        |       |                                                                                                 |           |                |
| S.M.O.H. - 289.81 HRS                                                                                                                                                                                                                                                                                                                |          |                        |       |                                                                                                 |           |                |

CARRY ACCUMULATED TOTAL TIME FORWARD TO TOP OF NEXT PAGE





| DATE                                                                                                                                                                                                                                                                                                                                                      | DURATION | ACCUMULATED TOTAL TIME |       | REPAIRS --- ADJUSTMENTS                                                                                                                                                                                                                                                                                                       | SIGNATURE | LICENSE NUMBER |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------------|
|                                                                                                                                                                                                                                                                                                                                                           |          | HOURS                  | 10THS |                                                                                                                                                                                                                                                                                                                               |           |                |
| JUNE 14, 1990                                                                                                                                                                                                                                                                                                                                             |          |                        |       | COMPLETED ANNUAL INSPECTION THIS DATE. CHECKED OIL SCREEN AND MAG TIMING. CLEARED CHAFE POINTS. DIFFERENTIAL CHECK: #1-72/80; #2-74/80; #3-75/80; #4-78/80. COOLED ENGINE AND REINSTALLED PROPELLER. RECHECKED A.D. 78-09-07 R3 - IMPULSE COUPLING ON RT. MAG S/N A104766. A.D.'S CHECKED TO 90-10. (SEE LISTING A/F LOGBOOK) |           |                |
| <p>I certify that this <u>ENGINE</u> has been inspected in accordance with an <u>ANNUAL</u> inspection and was determined to be in air worthy condition on <u>JUNE 14, 1990</u></p> <p>Time in service, <u>2852.82</u> hours.</p> <p>Milton Leiner W.D. 1056775<br/>Milton Leiner<br/>Authorized Inspector</p> <p>OPERATIONAL CHECK WAS SATISFACTORY.</p> |          |                        |       |                                                                                                                                                                                                                                                                                                                               |           |                |

CARRY ACCUMULATED TOTAL TIME FORWARD TO TOP OF NEXT PAGE

| DATE                                                                                                                                                                                                                                                                                                                                                     | DURATION | ACCUMULATED TOTAL TIME |       | REPAIRS --- ADJUSTMENTS                                                                                                                                                                                 | SIGNATURE | LICENSE NUMBER |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------------|
|                                                                                                                                                                                                                                                                                                                                                          |          | HOURS                  | 10THS |                                                                                                                                                                                                         |           |                |
| JULY 1, 1991                                                                                                                                                                                                                                                                                                                                             |          |                        |       | COMPLETED ANNUAL INSPECTION THIS DATE: CHECKED OIL SCREEN AND MAG TIMING. DIFFERENTIAL CHECK: #1-73/80; #2-75/80; #3-76/80; #4-78/80. COOLED ENGINE AND REINSTALLED PROPELLER. A.D.'S CHECKED TO 91-13. |           |                |
| <p>I certify that this <u>ENGINE</u> has been inspected in accordance with an <u>ANNUAL</u> inspection and was determined to be in air worthy condition on <u>JULY 1, 1991</u></p> <p>Time in service, <u>2866.29</u> hours.</p> <p>Milton Leiner W.D. 1056775<br/>Milton Leiner<br/>Authorized Inspector</p> <p>OPERATIONAL CHECK WAS SATISFACTORY.</p> |          |                        |       |                                                                                                                                                                                                         |           |                |
| TACH                                                                                                                                                                                                                                                                                                                                                     | 2088.29  | HRS.                   |       |                                                                                                                                                                                                         |           |                |
| T.S.M.                                                                                                                                                                                                                                                                                                                                                   | 232.15   | HRS.                   |       |                                                                                                                                                                                                         |           |                |

CARRY ACCUMULATED TOTAL TIME FORWARD TO TOP OF NEXT PAGE

DATE 19 87

Part Name AIRCRAFT PROPELLER

Model No. AM7150 Ser. No. 38991

The Aircraft, Airframe, Aircraft Engine, Propeller or Appliance identified above was repaired and inspected in accordance with current regulations of the Federal Aviation Agency and is approved for return to service. Pertinent details of the repair are on file at this repair station under

Work Order No. 94052 Date 4/8/86

Signed Edward J. [Signature]

FOR SENSENICH CORP., Lancaster, Pa. 17604—Cert. No. 3528

— For Details over —

*annual type inspection and was determined to be in airworthy condition. AD summary checked to 8 in rear of log*

*TT 2833.79 / 155.79 SMOH*

CREATOR

LICENSE NUMBER

DATE

SIGNATURE

LICENSE NUMBER

REPAIRS — ADJUSTMENTS

I CERTIFY THAT THIS Engine HAS BEEN INSPECTED IN ACCORDANCE WITH TYPE INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION. A.D. SUMMARY TO 88-22 CHECKED. SEE LISTING IN REAR OF LOG. OPERATIONAL CHECK SATISFACTORY.

SIGNATURE [Signature]

CERT NO. 201481899-1A

TOTAL TIME 2841.7 TACH 2023.7

DATE OF INSPECTION 11/10/25/1988

| ENGINE LOG                                                                                                                                                                                                                                        |          |                        |       | SIGNATURE                                                                                                                                                                                                                                                              | LICENSE NUMBER |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------------------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| DATE                                                                                                                                                                                                                                              | DURATION | ACCUMULATED TOTAL TIME |       | REPAIRS --- ADJUSTMENTS                                                                                                                                                                                                                                                |                |
|                                                                                                                                                                                                                                                   |          | HOURS                  | IOths |                                                                                                                                                                                                                                                                        |                |
| 19 <i>82</i>                                                                                                                                                                                                                                      |          |                        |       |                                                                                                                                                                                                                                                                        |                |
|                                                                                                                                                                                                                                                   |          |                        |       | ENGINE - Drained oil, cleaned screens, checked & cleaned spark plugs, checked compression, checked fuel system, drained sumps, checked starter and generator brushes, checked mags and timed properly, checked prop for leaks and grease. Functionally checked engine. |                |
| <i>AD note 82-20-1 on Bendix Magneto</i><br><i>Mo 10-4766. Mo 10-4761. Installed at Mo 10-4761.</i>                                                                                                                                               |          |                        |       |                                                                                                                                                                                                                                                                        |                |
| <i>Compression 1 75/80 2 75/80 3 75/80 4 75/80</i><br><i>2046.51</i><br><i>44.51 Last 12 mo.</i>                                                                                                                                                  |          |                        |       |                                                                                                                                                                                                                                                                        |                |
| <i>Date 9-1-82 Total Aircraft Time 2046-51</i><br>I certify that <i>Engine</i> has been inspected<br>in accordance with <i>Annual</i> inspection and<br>was determined to be in airworthy condition.<br>Signature <i>Mary Loua</i> <i>1046088</i> |          |                        |       |                                                                                                                                                                                                                                                                        |                |

CARRY ACCUMULATED TOTAL TIME FORWARD TO TOP OF NEXT PAGE

| ENGINE LOG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |                        |       | SIGNATURE                             | LICENSE NUMBER |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------------------|-------|---------------------------------------|----------------|
| DATE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | DURATION | ACCUMULATED TOTAL TIME |       | REPAIRS --- ADJUSTMENTS               |                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          | HOURS                  | IOths |                                       |                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |                        |       |                                       |                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |                        |       | TOTAL TIME 2033                       |                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |                        |       | TACH TIME 2055.0 HRS / 55.0 HRS SMOH. |                |
| AN ANNUAL INSPECTION WAS COMPLETED THIS DATE<br>THIS AIRCRAFT ENGINE & WAS DETERMINED TO BE<br>IN AIRWORTHY CONDITION. COMP CHECK. 1 75/80 2 75/80<br>3 75/80 4 75/80<br>ALUMINUM PROP WAS SENT OUT FOR RECONDITIONING<br>& POLISHING. OIL WAS CHANGE & OIL SCREEN CHECKED<br>& CLEANED. ALL FUEL LINE FLEX LINES WERE<br>REPLACED. STARTER PULL CABLE WAS REPLACED.<br>RECHECKED ALL AD NOTES THRU 84-11-05<br><i>R. Rudolph</i><br><i>IA 1442803</i><br>AD NOTES 66-05-04 MARVEL SCHEBLER N/A BY P/N<br>69-24-03 " " N/A BY S/N<br>72-06-05 " " N/A BY S/N<br>49-50-01 CONTINGENTAL PART 142 C/W<br>N/A BY S/N |          |                        |       |                                       |                |
| CARRY ACCUMULATED TOTAL TIME FORWARD TO TOP OF NEXT PAGE<br>81-07-06 AC FUEL PUMP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |                        |       |                                       |                |

## ENGINE LOG

| DATE         | DURATION | ACCUMULATED TOTAL TIME |       | REPAIRS --- ADJUSTMENTS                                                                                                                                                                                                                                         | SIGNATURE | LICENSE NUMBER |
|--------------|----------|------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------------|
|              |          | HOURS                  | 10THS |                                                                                                                                                                                                                                                                 |           |                |
| Sept 4, 1981 |          |                        |       | 100 Hr Insp Completed in accordance with a periodic Insp. This aircraft considered Airworthy and released for Ser                                                                                                                                               | MM Bowman | A#E-1274861    |
| Nov 27, 1981 |          |                        |       | Top O. hauled Completed this date all Cyls O. hauled & chromed by Harrison Eng Service. New 900 Octane Intake Valves Installed in all Cyls. Cyls installed & Eng run in 20 min on ground, 40 min in air. This Eng considered Airworthy and released for Service | MM Bowman | A#E-1274861    |

CARRY ACCUMULATED TOTAL TIME FORWARD TO TOP OF NEXT PAGE

## ENGINE LOG

| DATE | DURATION | ACCUMULATED TOTAL TIME |       | REPAIRS --- ADJUSTMENTS                                                                                                                                                                                                                                  | SIGNATURE     | LICENSE NUMBER |
|------|----------|------------------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|----------------|
|      |          | HOURS                  | 10THS |                                                                                                                                                                                                                                                          |               |                |
| 1981 |          |                        |       | Annual inspection Completed this date<br>Ser. no. <del>177</del> 2002, <del>177</del> 00 SMOH<br>177<br>I certify this engine-aircraft has been inspected in accordance with a <u>Annual</u> inspection and was determined to be in airworthy condition. | Shong E. Shub | 1A678303       |

CARRY ACCUMULATED TOTAL TIME FORWARD TO TOP OF NEXT PAGE

## REPAIRS --- ADJUSTMENTS

I Certify that this .....  
has been inspected in  
accordance with a ..... Inspection  
and determined to be  
air worthy.....  
Date..... T. T.  
..... 1425725 A & P W/A

CARRY ACCUMULATED TOTAL TIME FORWARD TO TOP OF NEXT PAGE

## REPAIRS --- ADJUSTMENTS

3-3-80 1968.1 100 HR ANNUAL INSP. CHANGED OIL  
AERO SIZED 80. CLEANED AND CHECKED ALL FUEL  
AND OIL SCREENS. CK COMPRESSION. INSTALLED NEW  
EX GASKETS AND EX PIPE FLANGES. INSTALLED ALL  
FOUR ENG MOUNT RUSHINGS WITH NEW PARTS. INSTALLED  
NEW PROP SPINNER BULKHEAD, CLEANED PRESSION AND  
PAINTED PER. S. Alfred Fox A&P 366428333 IA  
Certify this ENGINE has been inspected I.A.W. a  
ANNUAL Inspection and found to be in  
Airworthy condition. 143 TACH. 1968.1  
DATE 3-3-80 S. Alfred Fox A&P  
143 hrs Since 170 H.

CARRY ACCUMULATED TOTAL TIME FORWARD TO TOP OF NEXT PAGE



## ENGINE LOG

## ENGINE LOG

| DATE                                                                                                                                                                                                                                                                                                                                                                                                                                | DURATION | ACCUMULATED TOTAL TIME |       | REPAIRS --- ADJUSTMENTS | SIGNATURE | LICENSE NUMBER |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------------------|-------|-------------------------|-----------|----------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                     |          | HOURS                  | 10THS |                         |           |                |
| 19                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |                        |       |                         |           |                |
| <p>The aircraft and/or component identified hereon was repaired and inspected in accordance with current Federal Air Regulations and was found airworthy for return to service.</p> <p>Permitted to fly on the at this agency under 5211</p> <p>Date 2 August 1974</p> <p>Signed Donald H. Bloom For</p> <p>NORTHERN AIR</p> <p>KENT COUNTY AIRPORT</p> <p>GRAND RAPIDS, MICHIGAN</p> <p>F A A APPROVED REPAIR STATION No. 4317</p> |          |                        |       |                         |           |                |
| <p>Sept 1, 1974</p> <p>I certify that this engine has been inspected in accordance with a annual inspection and determined to be airworthy</p> <p>Green A. Scott</p> <p>1425725 A &amp; P W/A</p>                                                                                                                                                                                                                                   |          |                        |       |                         |           |                |

CARRY ACCUMULATED TOTAL TIME FORWARD TO TOP OF NEXT PAGE

| DATE                                                                                                                                                                                                            | DURATION | ACCUMULATED TOTAL TIME |       | REPAIRS --- ADJUSTMENTS | SIGNATURE | LICENSE NUMBER |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------------------|-------|-------------------------|-----------|----------------|
|                                                                                                                                                                                                                 |          | HOURS                  | 10THS |                         |           |                |
| 19                                                                                                                                                                                                              |          |                        |       |                         |           |                |
| <p>5/20/76 checked starter, Gen. mag. system, mount cleaned Oil &amp; fuel screens</p> <p>Kenneth R. Johnson AXP 1399720</p>                                                                                    |          |                        |       |                         |           |                |
| <p>I certify that this engine has been inspected in accordance with a annual inspection and determined to be airworthy.</p> <p>Date 5/24/76 T.T. 1870.54</p> <p>1425725 A &amp; P W/A</p> <p>Green A. Scott</p> |          |                        |       |                         |           |                |

CARRY ACCUMULATED TOTAL TIME FORWARD TO TOP OF NEXT PAGE

## ENGINE DESCRIPTION

Mfr. *Continental Engine Corp.* Place *Muskegon Michigan* Date *7-24-74*  
 Type *Horizontal 4cyl. Opposed* Model *C-90-12F* Serial No. *42519-0-12*  
 Rated H. P. *90* Maximum H. P. *95* Weight (Dry) *173*  
 Rated R. P. M. *2405* Maximum R. P. M. *2605* *1 min.* Oil Pressure *30-60*  
 Bore Stroke *3-7/8 in.* Displacement *200.91* Cu. In.  
 Compression Ratio *7.0:1* Supercharger Ratio Gear Ratio

Propeller *McCawley* Hub Design *1-B-90* Hub Serial No. *18526*  
 Blade Design Blade Serial Blade Serial Blade Serial  
 Maximum Hub H. P. Maximum Blade H. P.  
 Pitch Diameter Length

Owner's Name

Address

City

State

| DATE | DURATION | ACCUMULATED TOTAL HOURS |
|------|----------|-------------------------|
| 19   |          |                         |



*3/3/1980 TACH-1968*  
*7/1974 — 1825* *WRONG!*  
*1.4 3:00 SMOH*

*Major O hauled - Northern Air Muskegon*  
*at 1825:00 ~~7/24/74~~ 7/24/74*

*at this time the Eng has 143 hrs S.M.O.H.*  
*and a Tach reading of 1968:00*  
*New Valves & New Seats installed at O'haul*  
*CONT.*  
*Eng C-90-12F SN 42519-0-12*

LICENSE  
NUMBER

2

THE ALL-METAL

VALVE

## MEMORANDUM

DATE

OIL CHANGE - B/79/EC - TACK - 1410.28 30 On St. 59



## ENGINE LOG

| DATE                            | R. P. M. |     | TIME ON GROUND |      | TIME IN AIR |      | TOTAL TIME |      | REPAIRS — ADJUSTMENTS                                                                                                                                                          | SIGNATURE | LICENSE NUMBER |
|---------------------------------|----------|-----|----------------|------|-------------|------|------------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------------|
|                                 | Ground   | Air | Hours          | Min. | Hours       | Min. | Hours      | Min. |                                                                                                                                                                                |           |                |
| 2/1/71                          |          |     |                |      |             |      |            |      | checked Compression, Spark plugs, Cleaner<br>oil fuel, screens checked starter & gen<br>magneto & system, changed oil to<br>30 wt. & D. Installed new cyl seal on<br>no 4 cyl. | Crym      |                |
| Mar. 1 1972                     |          |     |                |      |             |      |            |      | I CERTIFY THAT THIS AIRCRAFT HAS<br>BEEN INSPECTED IN ACCORDANCE<br>WITH AN <u>Annual</u> INSPECTION AND<br>WAS DETERMINED TO BE IN AN<br>WORTHY CONDITION.                    |           |                |
| BROUGHT FORWARD                 |          |     |                |      |             |      |            |      |                                                                                                                                                                                |           |                |
| TOTALS                          |          |     |                |      |             |      |            |      |                                                                                                                                                                                |           |                |
| Simon R. Johnson AXP 1399720IA. |          |     |                |      |             |      |            |      |                                                                                                                                                                                |           |                |

## PROPELLER INSPECTION AND REPAIRS

| INSPECTION                                                                                                              |              |           | REPAIRS |             |                                                    |
|-------------------------------------------------------------------------------------------------------------------------|--------------|-----------|---------|-------------|----------------------------------------------------|
| DATE                                                                                                                    | INSPECTED BY | CONDITION | DATE    | REPAIRED BY | REPAIRS MADE                                       |
| Mar 1, 1972                                                                                                             | TACH         | 1765      |         |             | clean oil screen.<br>replaced R.H. exhaust gasket. |
| BEEN INSPECTED IN ACCORDANCE<br>WITH AN <u>Annual</u> INSPECTION AND<br>WAS DETERMINED TO BE IN AN<br>WORTHY CONDITION. |              |           |         |             |                                                    |
| Simon R. Johnson AXP 1399720IA.                                                                                         |              |           |         |             |                                                    |

## ENGINE LOG

| DATE                                                                                                                                                                                                       | R. P. M. |     | TIME ON GROUND |      | TIME IN AIR |      | TOTAL TIME |      | REPAIRS — ADJUSTMENTS                                                                                      | SIGNATURE | LICENSE NUMBER |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----|----------------|------|-------------|------|------------|------|------------------------------------------------------------------------------------------------------------|-----------|----------------|
|                                                                                                                                                                                                            | Ground   | Air | Hours          | Min. | Hours       | Min. | Hours      | Min. |                                                                                                            |           |                |
| 8/10/48                                                                                                                                                                                                    |          |     |                |      |             |      |            |      | Installed 4 new plugs, new Gen Brush, cleaned oil pump screws, checked ex. cylin rings, started Gen mount. |           |                |
| <p>I CERTIFY THAT THIS AIRCRAFT, HAS<br/>         BEEN INSPECTED IN ACCORDANCE<br/>         WITH <u>Annual</u> INSPECTION AND<br/>         WAS DETERMINED TO BE IN AIR-<br/>         WORTHY CONDITION.</p> |          |     |                |      |             |      |            |      |                                                                                                            |           |                |
| <p>Wernon R. Johnson AXP 1399720 I.A.</p>                                                                                                                                                                  |          |     |                |      |             |      |            |      |                                                                                                            |           |                |
| BROUGHT FORWARD                                                                                                                                                                                            |          |     |                |      |             |      |            |      |                                                                                                            |           |                |
| TOTALS                                                                                                                                                                                                     |          |     |                |      |             |      |            |      |                                                                                                            |           |                |

## ENGINE LOG

| DATE                                                                                                                                                                                                                              |     | R. P. M. |      | TIME ON GROUND |      | TIME IN AIR |      | TOTAL TIME |  | REPAIRS — ADJUSTMENTS | SIGNATURE | LICENSE NUMBER |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----------|------|----------------|------|-------------|------|------------|--|-----------------------|-----------|----------------|
| Ground                                                                                                                                                                                                                            | Air | Hours    | Min. | Hours          | Min. | Hours       | Min. |            |  |                       |           |                |
| <p>Replaced Carb. Filter, Screen. Reworked Carb., overhauled Starter, R. Magneto.</p> <p>Replaced one Ignition Wire and Cigarettes x</p>                                                                                          |     |          |      |                |      |             |      |            |  |                       |           |                |
| <p>ENTRY THAT THIS AIRCRAFT HAS BEEN INSPECTED IN ACCORDANCE WITH <u>Annual</u> INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION. THIS DATE 11-25-69.</p> <p><u>Moody A. Lane</u></p> <p><u>Ins. auth.</u> 1046088.</p> |     |          |      |                |      |             |      |            |  |                       |           |                |
| BROUGHT FORWARD                                                                                                                                                                                                                   |     |          |      |                |      |             |      |            |  |                       |           |                |
| TOTALS                                                                                                                                                                                                                            |     |          |      |                |      |             |      |            |  |                       |           |                |

[illegible]

| ENGINE LOG                                                                                                                                                            |          |     |                |      |             |      |            |      |  | REPAIRS — ADJUSTMENTS                                                                                           | SIGNATURE | LICENSE NUMBER |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----|----------------|------|-------------|------|------------|------|--|-----------------------------------------------------------------------------------------------------------------|-----------|----------------|
| DATE                                                                                                                                                                  | R. P. M. |     | TIME ON GROUND |      | TIME IN AIR |      | TOTAL TIME |      |  |                                                                                                                 |           |                |
|                                                                                                                                                                       | Ground   | Air | Hours          | Min. | Hours       | Min. | Hours      | Min. |  |                                                                                                                 |           |                |
| 7/8/67                                                                                                                                                                |          |     |                |      |             |      |            |      |  | Run compression test Super plugs<br>Cleaned Oil & fuel screens checked<br>starter, Ign, mag, & switch<br>Engine |           |                |
| <p>I CERTIFY THAT THIS AIRCRAFT HAS<br/>BEEN INSPECTED IN ACCORDANCE<br/>WITH <u>ANNUAL</u> INSPECTION AND<br/>WAS DETERMINED TO BE IN AIR-<br/>WORTHY CONDITION.</p> |          |     |                |      |             |      |            |      |  |                                                                                                                 |           |                |
| <p>Theron R. Johnson, AXP 1399720-IA</p>                                                                                                                              |          |     |                |      |             |      |            |      |  |                                                                                                                 |           |                |
| BROUGHT FORWARD                                                                                                                                                       |          |     |                |      |             |      |            |      |  |                                                                                                                 |           |                |
| TOTALS                                                                                                                                                                |          |     |                |      |             |      |            |      |  |                                                                                                                 |           |                |

# ENGINE LOG

| DATE                                                                                                                                                                                                                                      |  | R. P. M. |     | TIME ON GROUND |      | TIME IN AIR |      | TOTAL TIME |      | REPAIRS — ADJUSTMENTS                                                                 | SIGNATURE | LICENSE NUMBER |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------|-----|----------------|------|-------------|------|------------|------|---------------------------------------------------------------------------------------|-----------|----------------|
|                                                                                                                                                                                                                                           |  | Ground   | Air | Hours          | Min. | Hours       | Min. | Hours      | Min. |                                                                                       |           |                |
| 6/5/66                                                                                                                                                                                                                                    |  |          |     |                |      |             |      |            |      | checked compressor, tapered plugs, checked starter, Gen, mag, mount. ex & fuel system |           |                |
| Air 1386                                                                                                                                                                                                                                  |  |          |     |                |      |             |      |            |      | Engine                                                                                |           |                |
| <p style="text-align: center;">I CERTIFY THAT THIS AIRCRAFT HAS<br/>         BEEN INSPECTED IN ACCORDANCE<br/>         WITH A <u>Periodic</u> INSPECTION AND<br/>         WAS DETERMINED TO BE IN AIR-<br/>         WORTHY CONDITION.</p> |  |          |     |                |      |             |      |            |      |                                                                                       |           |                |
| <p style="text-align: center;">Vernon R. Johnson AXP 1399720 IA.</p>                                                                                                                                                                      |  |          |     |                |      |             |      |            |      |                                                                                       |           |                |
| BROUGHT FORWARD                                                                                                                                                                                                                           |  |          |     |                |      |             |      |            |      |                                                                                       |           |                |
| TOTALS                                                                                                                                                                                                                                    |  |          |     |                |      |             |      |            |      |                                                                                       |           |                |

## ENGINE LOG

[illegible]

1965 x 4

## ENGINE LOG

| ENGINE LOG      |          |     |                   |      |             |      |            |      |                       |           | LICENSE<br>NUMBER |
|-----------------|----------|-----|-------------------|------|-------------|------|------------|------|-----------------------|-----------|-------------------|
| DATE            | R. P. M. |     | TIME ON<br>GROUND |      | TIME IN AIR |      | TOTAL TIME |      | REPAIRS — ADJUSTMENTS | SIGNATURE |                   |
|                 | Ground   | Air | Hours             | Min. | Hours       | Min. | Hours      | Min. |                       |           |                   |
| 1966 Oct        |          |     |                   |      |             |      | 6          | 50   |                       | Conerton  |                   |
| Oct             |          |     |                   |      |             |      | 4          | 55   |                       | Gale      | 14:45             |
| Oct             |          |     |                   |      |             |      | 3          | 00   |                       | Archer    |                   |
| Nov.            |          |     |                   |      |             |      | 2          | 35   |                       | Conerton  | 5:35              |
| Nov.            |          |     |                   |      |             |      | 2          | 00   |                       | Gale      |                   |
| Nov.            |          |     |                   |      |             |      | 1          | 00   |                       | Archer    |                   |
| Dec             |          |     |                   |      |             |      | 1          | 55   |                       | Gale      | 2:55              |
| Dec             |          |     |                   |      |             |      | 1          | 00   |                       | Archer    |                   |
| Jan             |          |     |                   |      |             |      | 1          | 00   |                       | Conerton  | 4:30              |
| Jan             |          |     |                   |      |             |      | 3          | 30   |                       | Gale      |                   |
| BROUGHT FORWARD |          |     |                   |      |             |      | 73         | 50   |                       |           |                   |
| TOTALS          |          |     |                   |      |             |      |            |      |                       |           |                   |

1965

## ENGINE LOG

[illegible]

[illegible]

| DATE            | R. P. M. |     | TIME ON GROUND |      | TIME IN AIR |      | TOTAL TIME |      | REPAIRS — ADJUSTMENTS                                                                                                                                                                                 | SIGNATURE | LICENSE NUMBER |
|-----------------|----------|-----|----------------|------|-------------|------|------------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------------|
|                 | Ground   | Air | Hours          | Min. | Hours       | Min. | Hours      | Min. |                                                                                                                                                                                                       |           |                |
| 6/6/65          |          |     |                |      |             |      |            |      | G-pul plus. checked Compressor<br>cleaned oil screen. Repaired Carb heat box.<br>Prop repair at H & S prop shop. Installed<br>new engine mount.                                                       |           |                |
| Total           |          |     |                |      |             |      |            |      |                                                                                                                                                                                                       |           |                |
|                 |          |     |                |      |             |      |            |      | <p><b>I CERTIFY THAT THIS AIRCRAFT HAS BEEN INSPECTED IN ACCORDANCE WITH A <u>Periodic</u> INSPECTION AND WAS DETERMINED TO BE IN AIR-WORTHY CONDITION.</b></p> <p>Vernon R. Johnson AXP1399720IA</p> |           |                |
| BROUGHT FORWARD |          |     |                |      |             |      |            |      |                                                                                                                                                                                                       |           |                |
| TOTALS          |          |     |                |      |             |      |            |      |                                                                                                                                                                                                       |           |                |

## ENGINE LOG

| DATE                                                                                                                                                                                        | R. P. M. |     | TIME ON GROUND |      | TIME IN AIR |      | TOTAL TIME |      | REPAIRS — ADJUSTMENTS         | SIGNATURE | LICENSE NUMBER |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----|----------------|------|-------------|------|------------|------|-------------------------------|-----------|----------------|
|                                                                                                                                                                                             | Ground   | Air | Hours          | Min. | Hours       | Min. | Hours      | Min. |                               |           |                |
| 1/25/62                                                                                                                                                                                     |          |     |                |      |             |      |            |      | Tach 774                      |           |                |
| Eng. Majored this Date. New Rings & Bugs installed. Timing Gears & oil pump Gears checked. Valves & seats Ground. Both Mags Overhauled. Gen & Starter over Hauled. All steel parts checked. |          |     |                |      |             |      |            |      |                               |           |                |
| 1/27/62                                                                                                                                                                                     |          |     |                |      |             |      |            |      | Bernard Armstrong (Temporary) |           |                |
| TAC 774: Hrs                                                                                                                                                                                |          |     |                |      |             |      |            |      |                               |           |                |
| TOTAL 1552: Hrs                                                                                                                                                                             |          |     |                |      |             |      |            |      |                               |           |                |
| BROUGHT FORWARD                                                                                                                                                                             |          |     |                |      |             |      |            |      |                               |           |                |
| TOTALS                                                                                                                                                                                      |          |     |                |      |             |      |            |      |                               |           |                |

I CERTIFY THAT THIS AIRCRAFT HAS BEEN INSPECTED IN ACCORDANCE WITH A PERIODIC INSPECTION AND WAS DETERMINED TO BE IN AIR WORTHY CONDITION. AIP 1399720  
 Vernon R. Johnson

## ENGINE LOG

| DATE             | R. P. M. |     | TIME ON GROUND |      | TIME IN AIR |      | TOTAL TIME |      | REPAIRS — ADJUSTMENTS                                                                                  | SIGNATURE | LICENSE NUMBER |
|------------------|----------|-----|----------------|------|-------------|------|------------|------|--------------------------------------------------------------------------------------------------------|-----------|----------------|
|                  | Ground   | Air | Hours          | Min. | Hours       | Min. | Hours      | Min. |                                                                                                        |           |                |
| 4/16/63          |          |     |                |      |             |      |            |      | Installed new brushes in starter<br>new cabin heat air inlet pipe.<br>zapped plugs cleaned out engine. |           |                |
| TAC. 989: Hrs.   |          |     |                |      |             |      |            |      |                                                                                                        |           |                |
| Total 1771: Hrs. |          |     |                |      |             |      |            |      |                                                                                                        |           |                |
| BROUGHT FORWARD  |          |     |                |      |             |      |            |      |                                                                                                        |           |                |
| TOTALS           |          |     |                |      |             |      |            |      |                                                                                                        |           |                |

I CERTIFY THAT THIS AIRCRAFT HAS BEEN INSPECTED IN ACCORDANCE WITH A PERIODIC INSPECTION AND WAS DETERMINED TO BE IN AIR WORTHY CONDITION.

Vernon R. Johnson T.A 1399720

# ENGINE LOG

[illegible]

# ENGINE LOG

[illegible]

## ENGINE LOG

| ENGINE LOG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |          |     |                |      |             |      |            |      |                       | LICENSE NUMBER |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----|----------------|------|-------------|------|------------|------|-----------------------|----------------|
| DATE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | R. P. M. |     | TIME ON GROUND |      | TIME IN AIR |      | TOTAL TIME |      | REPAIRS — ADJUSTMENTS | SIGNATURE      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Ground   | Air | Hours          | Min. | Hours       | Min. | Hours      | Min. |                       |                |
| 7/7/56                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          |     | Tach 679.9     |      |             |      |            |      |                       |                |
| <p>Eng. Majorred This Date. All Ferrous Parts Magnatized by Bonder. New Crankshaft, New Rods, New Bearings, New Rings, New Pistons, New Timing Gears, New Oil Pump Gears, New Cam Shaft Supplied by Continental. Cylinders O/hauled by Continental. New Seats, Guides &amp; Rocker Shaft Bushings Installed. Gen &amp; Mags O/hauled.</p> <p>It Is Certified That This Eng. has been Thoroughly Inspected As required by CAR And found Airworthy.</p> <p>AD Thr 56/11 Chauncey G. Knapp Ad #553318</p> <p>"E" Pistons Installed.</p> |          |     |                |      |             |      |            |      |                       |                |
| BROUGHT FORWARD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |     |                |      |             |      |            |      |                       |                |
| TOTALS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          |     |                |      |             |      |            |      |                       |                |

## ENGINE LOG

[illegible]

| ENGINE LOG                                                                                                                                                                                    |          |     |                |      |             |      |            |      |                       |           |                |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----|----------------|------|-------------|------|------------|------|-----------------------|-----------|----------------|
| DATE                                                                                                                                                                                          | R. P. M. |     | TIME ON GROUND |      | TIME IN AIR |      | TOTAL TIME |      | REPAIRS — ADJUSTMENTS | SIGNATURE | LICENSE NUMBER |
|                                                                                                                                                                                               | Ground   | Air | Hours          | Min. | Hours       | Min. | Hours      | Min. |                       |           |                |
|                                                                                                                                                                                               |          |     |                |      |             |      |            |      |                       |           |                |
| 9/15/53 Tach 255 Annua<br>It Is Certified That This Eng has been<br>Thoroughly Inspected As required by<br>CAR And found Airworthy.<br>AD thru 53-18 Comp. With Chauncey L. Krupp AFE #553318 |          |     |                |      |             |      |            |      |                       |           |                |
| Tach - 497 10/4/54<br>It Is Certified That This Eng has been Thoroughly<br>Inspected As required by CAR And found Airworthy.<br>AD thru 54/20 Comp. With Chauncey L. Krupp AFE #553318        |          |     |                |      |             |      |            |      |                       |           |                |
| BROUGHT FORWARD                                                                                                                                                                               |          |     |                |      |             |      |            |      |                       |           |                |
| TOTALS                                                                                                                                                                                        |          |     |                |      |             |      |            |      |                       |           |                |

| ENGINE LOG                                                                                                                                                                                                               |          |     |                |      |             |      |            |      |  | REPAIRS — ADJUSTMENTS                              | SIGNATURE | LICENSE NUMBER |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----|----------------|------|-------------|------|------------|------|--|----------------------------------------------------|-----------|----------------|
| DATE                                                                                                                                                                                                                     | R. P. M. |     | TIME ON GROUND |      | TIME IN AIR |      | TOTAL TIME |      |  |                                                    |           |                |
|                                                                                                                                                                                                                          | Ground   | Air | Hours          | Min. | Hours       | Min. | Hours      | Min. |  |                                                    |           |                |
| <p>I have inspected this aircraft and found it<br/>         complies with the requirements of C.A.R. 1.67.<br/>         Certificate of Airworthiness dated Oct. 15, 1956 was issued by me.</p>                           |          |     |                |      |             |      |            |      |  | <p>Joseph D. Guder<br/>         D.A. 742. 3359</p> |           |                |
| <p>Tech 597 8/1/55 100 hrs. Eng. Chauncey C. Knapp AFE #553318</p>                                                                                                                                                       |          |     |                |      |             |      |            |      |  |                                                    |           |                |
| <p>Tech 679 5/28/56<br/>         It is Certified that this Eng has been thoroughly<br/>         Inspected As required by CAR And found Airworthy.<br/>         AD thru 56/10 Comp with Chauncey C. Knapp AFE #553318</p> |          |     |                |      |             |      |            |      |  |                                                    |           |                |
| BROUGHT FORWARD                                                                                                                                                                                                          |          |     |                |      |             |      |            |      |  |                                                    |           |                |
| TOTALS                                                                                                                                                                                                                   |          |     |                |      |             |      |            |      |  |                                                    |           |                |

| ENGINE DESCRIPTION |                          |                     |                 |
|--------------------|--------------------------|---------------------|-----------------|
| Mfgr.              | CONTINENTAL ENGINE CORP. | Place               | MUSKEGON, MICH. |
| Type               |                          | Model               | C-90-12F        |
| Rated H. P.        | 90                       | Serial No.          | 42519-0-12      |
| Rated R. P. M.     | 2100                     | Maximum H. P.       | 90              |
| Bore               |                          | Maximum R. P. M.    | 2100            |
| Compression Ratio  |                          | Stroke              |                 |
| Propeller          | McCaughey                | Displacement        | 188             |
| Blade Design       |                          | Gear Ratio          |                 |
| Maximum Hub H. P.  |                          | Hub Design          | 1-B-90          |
| Pitch              |                          | Hub Serial No.      | 18526           |
| Owners Name        |                          | Blade Serial No.    |                 |
| Address            |                          | Maximum Blade H. P. |                 |
|                    |                          | Diameter            |                 |
|                    |                          | Length              |                 |
|                    |                          | City                |                 |
|                    |                          | State               |                 |

[illegible]