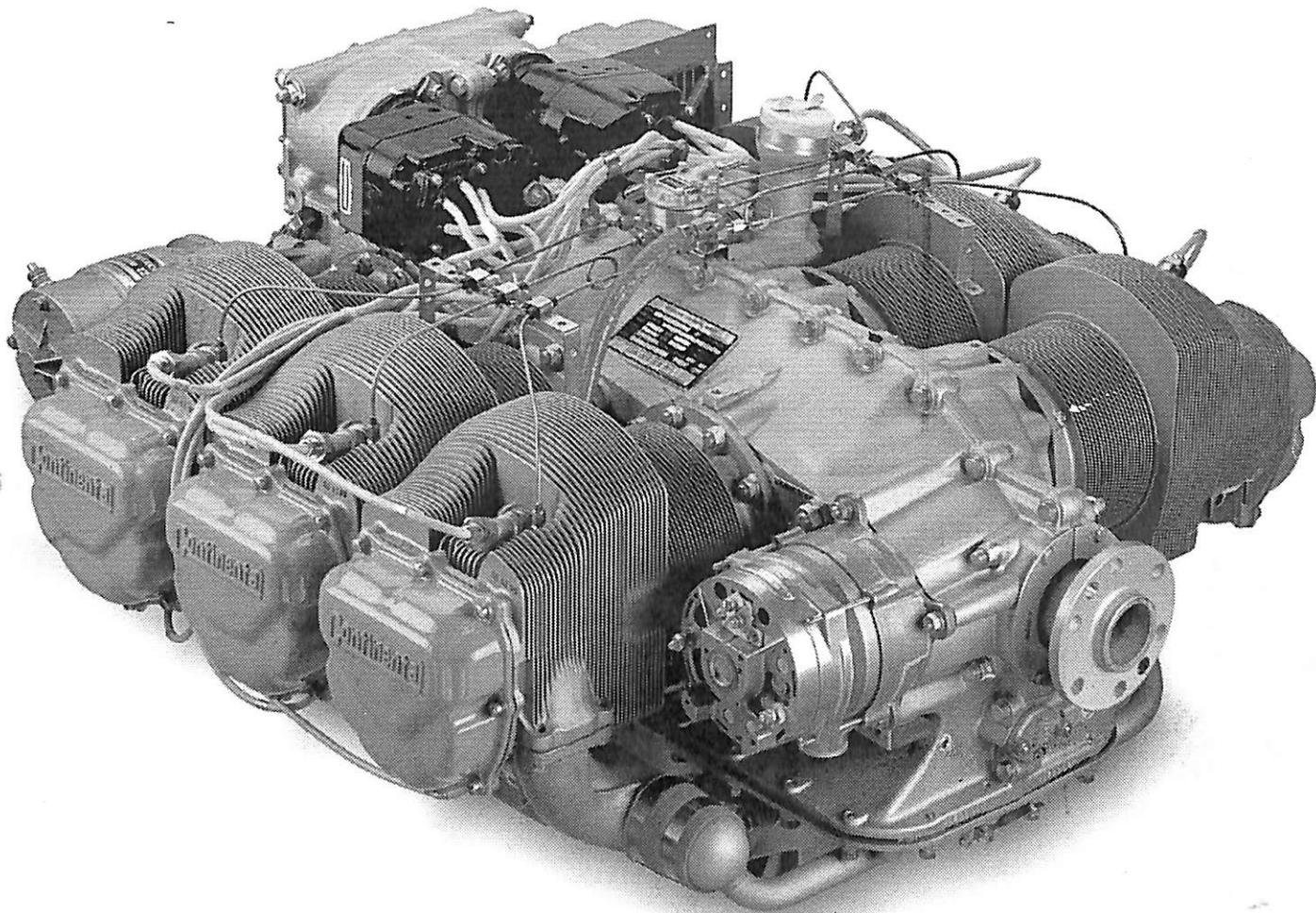


N516BW

# ENGINE LOG BOOK



**Teledyne Continental Motors, Inc.**

| Date  | Total Time |      | Time Since Last Overhaul |      | Engine Service and Maintenance Record<br>Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins |
|---|------------|------|--------------------------|------|---|
|   | Hrs.       | Min. | Hrs.                     | Min. |   |
| Brought Forward   | →          |      |                          |      |   |
| <p>11/11/2024 N516BW Continental IO-360-ESb S/N 360340<br/>Tsn: 386.8 Tach: 388.8 Hobbs: 520.5</p> <p>1. Performed 100 inspection IAW FAR 43 appendix D and manufactures inspection guide<br/>2. Performed compression checks (Cold) 1)78 2)78 3)78 4)78 5)78 6)76<br/>3. Drained engine oil. Installed new Tempest AA48110-2 filter and safety wired. Serviced engine with 8 qts Phillips XC 20w-50. Oil analysis taken.<br/>4. Cleaned, gapped, tested, inspected and rotated spark plugs<br/>5. Confirmed magneto timing<br/>6. Installed SAF-Air Oil Drain Valve S6250 5/8"-18<br/>7. Performed post maintenance run. Post engine run and leak check satisfactory</p> <p>I certify that this engine has been inspected IAW 100 hour inspection checklist and determined to be airworthy</p> <p>Andrew Overton A&amp;P 3084998 <i>laurie</i></p> |            |      |                          |      |   |



West Aviation, Inc.  
1945 S Cherry St Rd  
Creston IA 50801

Make: Continental  
Model: IO-360-ESB  
Tail: N516BW  
S/N: 360340

Hours: 396.3 TACH & TT

The following work was accomplished on this engine in accordance with the Quartz Mountain Aerospace Maintenance Manual & FAR 43, Appendix D:

- Cleaned engine and performed 100 hr. inspection.
- Performed differential compression test: #1-76/80, #2-77/80, #3-78/80, #4-75/80, #5-78/80, #6-77/80.
- Removed, cleaned, gapped, tested, rotated & reinstalled all spark plugs using new copper gaskets.
- Adjust both mag timing to 24 degrees BTC.
- Pressure tested both mufflers. Was o.k. at this time.
- Removed main fuel strainer screen. Cleaned and reinstalled screen.
- Installed a new EZ-Heat model 440 oil sump heating pad.

Note: Checked AD's to date. See aircraft records for details.

This engine is satisfactory for return to service with respect to the work described herein.  
I certify that this engine has been inspected in accordance with an annual inspection and was determined to be in airworthy condition.

Signed: *Darryl West*

Name: LARRY L. WEST

Cert: 3074522IA  
Date: 12/19/2024

06/01/2025 N516BW Continental IO-360-ESB S/N 360340  
Tach: 491.9 Engine TT: 491.9 Hobbs: 628.4

06/01/2025 N516BW Continental IO-360-ESB S/N 360340  
Tach: 491.9 Engine TT: 491.9 Hobbs: 628.4

- 1. Performed 100 inspection IAW FAR 43 appendix D and manufactures inspection guide
- 2. Performed compression checks (Cold) 1)78 2)78 3)78 4)78 5)78 6)76
- 3. Oil Change not performed
- 4. Cleaned, gapped, tested, inspected and rotated spark plugs
- 5. Confirmed magneto timing LH 24/RH 24
- 6. Pressure tested mufflers. satisfactory
- 7. Performed pre/post run. Post engine run and leak check satisfactory

I certify that this engine has been inspected IAW 100 hr inspection and was determined to be airworthy. With respect to the work performed, this engine is approved for return to service.

*laurie*

Andrew Overton A&P 3084998

| Hours:  | 584.9 TACH & TT   | Make:               | Continental                                     |
|---------|---|---------------------|---|
| Hours:  | 584.9 TACH & TT   | Model:              | IO-360-ESB                                      |
| Hours:  | 584.9 TACH & TT   | Tail:               | N516BW  |
| Hours:  | 584.9 TACH & TT   | S/N:                | 360340  |
| Hours:  | 584.9 TACH & TT   | West Aviation, Inc. | 1945 S CHERRY ST RD<br>CRESTON, IA 50801<br>USA |
| Brought | The following work was accomplished on this engine in accordance with the Quartz Mountain Aerospace Maintenance Manual & FAR 43, Appendix D:  |                     |   |
|         | <ul style="list-style-type: none"> <li>- Cleaned engine and performed 100 hr. inspection.</li> <li>- Performed differential compression test: #1-77/80, #2-76/80, #3-78/80, #4-76/80, #5-79/80, #6-77/80.</li> <li>- Removed, cleaned, gapped, tested, rotated &amp; reinstalled all spark plugs using new copper gaskets.</li> <li>- Checked engine to magneto timing at 24 degrees BTC.</li> <li>- Pressure tested both mufflers. Was o.k. at this time.</li> <li>- Removed, cleaned and reinstalled main fuel strainer screen.</li> </ul> <p>Note: Checked AD's to date. See aircraft records for details.</p> <p>This engine is satisfactory for return to service with respect to the work described herein.</p> |                     |   |
| Signed: | <i>Brian West</i>   |                     |   |
| Name:   | BRIAN L. WEST   |                     |   |
| Cert:   | AP4316092   |                     |   |
| Date:   | 09/25/2025  |                     |   |

wo: GA1563



Glencoe Aviation - 6253 Airport Industrial Blvd - GONZALES, LA 70737 - 225-460-3636

Engine - page 1 of 1

N516BW  
TACH: 225.6CONTINENTAL, IO360ES8B, S/N: 360340  
TTSN: 225.6

July 28, 2021

IO360ES8B, ENGINE PN: IO360ES8B, SN: 360340, TT TACH: 225.6

1. DRAINED ENIGNE OIL REMOVED OIL FILTER AND CUT OPEN AND INSPECTED NO DEBRIS NOTED INSTALLED NEW OIL FILTER AND SERVICED WITH 8QTS OF 20W50.REMOVED SPARK PLUGS CLEANED GAPPED AND CHECKED. PERFORMED COMPRESSION TEST #176/80 #2 72/80 #3 72/80 #4 72/80 #5 80/80 #6 80/80/ CHECKED MAG TIMING. WASHED ENGINE COMPARTMENT THEN RAN AND CHECKED FOR LEAKS. I CERTIFY THAT THIS EGINE HAS BEEN INSPECTED IN ACCORDANCE A 100 HR INSPECTION AND FOUND TO BE IN AIRWORTY CODITION AT THIS TIME. Installed (8) 20w50 - Phillips Oil, Installed (1) CH48108-1 - Champion Oil Filter, Installed (1) PII-2206 - FILTER.

With respect to the work performed, this engine is approved for return to service. Details of work performed are on file with Glencoe Aviation under work order: GA1563.

Dayne Bounds A/P IA 2782783

wo: GA1611



Engine - page 1 of 1

N516BW  
TACH: 225.7CONTINENTAL, IO360ES8B, S/N: 360340  
TTSN: 225.7

October 22, 2021

IO360ES8B, ENGINE PN: IO360ES8B, SN: 360340, TT TACH: 226.1

1. REMOVED LH MAG AND INSTALLED OVERHAULED MAG PN 6314 SN 10120235 AND REMOVED AND INSTALLED SPARK PLUGS DUE TO FAILURE OF TESTING. PERFORMED GROUND RUN NO DEFETS NOTED Installed P/N 6314HR500 - MAG 500HR (OVERHAULED), S/N: 10120235, Installed (12) P/N RHM38E - SPARK PLUG.
2. REMOVED OLD MAG HARNESS PN M2778 AND INSTALLED NEW HARNESS PN M2778 AND PERFORMED GROUND RUN NO DEFETS NOTED.

With respect to the work performed, this engine is approved for return to service. Details of work performed are on file with Glencoe Aviation under work order: GA1611.

Dayne Bounds A/P IA 2782783

wo: GA1563



Engine - page 1 of 1

N516BW  
TACH: 225.7CONTINENTAL, IO360ES8B, S/N: 360340  
TTSN: 225.7

October 22, 2021

IO360ES8B, ENGINE PN: IO360ES8B, SN: 360340, TT TACH: 225.6

1. DRAINED ENIGNE OIL REMOVED OIL FILTER AND CUT OPEN AND INSPECTED NO DEBRIS NOTED INSTALLED NEW OIL FILTER AND SERVICED WITH 8QTS OF 20W50.REMOVED SPARK PLUGS CLEANED GAPPED AND CHECKED. PERFORMED COMPRESSION TEST #176/80 #2 72/80 #3 72/80 #4 72/80 #5 80/80 #6 80/80/ CHECKED MAG TIMING. WASHED ENGINE COMPARTMENT THEN RAN AND CHECKED FOR LEAKS. I CERTIFY THAT THIS EGINE HAS BEEN INSPECTED IN ACCORDANCE A 100 HR INSPECTION AND FOUND TO BE IN AIRWORTY CODITION AT THIS TIME. Installed (8) P/N 20w50 - Phillips Oil, Installed P/N CH48108-1 - Champion Oil Filter , Installed P/N PII-2206 - FILTER.

With respect to the work performed, this engine is approved for return to service. Details of work performed are on file with Glencoe Aviation under work order: GA1563.

Dayne Bounds A/P IA 2782783

wo: GA2109



Engine - page 1 of 1

Glencoe Aviation - 6253 Airport Industrial Blvd - GONZALES, LA 70737 - 225-460-3636

N516BW  
TACH: 231.7CONTINENTAL, IO360ES8B, S/N: 360340  
TSN: 231.7

December 06, 2022

IO360ES8B, ENGINE PN: IO360ES8B, SN: 360340, TT TACH: 231.7

DRAINED ENIGNE OIL REMOVED OIL FILTER AND CUT OPEN AND INSPECTED NO DEBRIS NOTED INSTALLED NEW OIL FILTER AND SERVICED WITH 8QTS OF 20W50.REMOVED SPARK PLUGS CLEANED GAPPED AND CHECKED. PERFORMED COMPRESSION TEST #1 72/80 #2 68/80 #3 74/80 #4 70/80 #5 74/80 #6 76/80 MASTER ORFICE 48/80. CHECKED MAG TIMING. WASHED ENGINE COMPARTMENT THEN RAN AND CHECKED FOR LEAKS. I CERTIFY THAT THIS EGINE HAS BEEN INSPECTED IN ACCORDANCE A 100 HR INSPECTION AND FOUND TO BE IN AIRWORTY CODITION AT THIS TIME. Installed (8) P/N 20w50 - Phillips Oil, Installed P/N AA48108-2 - OIL FILTER.

With respect to the work performed, this engine is approved for return to service. Details of work performed are on file with Glencoe Aviation under work order: GA2109.

Dayne Bounds A/P IA 2782783

wo: GA2412



Engine - page 1 of 1

Glencoe Aviation - 6253 Airport Industrial Blvd - GONZALES, LA 70737 - 225-460-3636

N516BW  
TACH: 235.5CONTINENTAL, IO360ES8B, S/N: 360340  
TSN: 235.5

November 16, 2023

1. COMPRESSIONS 44.80: 1-78: 2-76: 3-78: 4-74: 5-80: 6-78:
2. Removed, cleaned, tested, gapped, rotated, and re-installed spark plugs.
3. Drained engine oil with sample taken for analysis. Removed engine oil filter and installed new AA48110-2 filter and safe-tied. Serviced engine with 7 qts of Phillips XC 20W-50 Engine oil
4. Performed operational test to check for leaks with satisfactory results. Cleaned engine area and re-cowl aircraft

I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH ANNUAL INSPECTION AND IS IN AIRWORTHY CONDITION AT THIS TIME.

With respect to the work performed, this engine is approved for return to service. Details of work performed are on file with Glencoe Aviation under work order: GA2412.

SYLVIAN HULL A/P 4226802

04/22/2024 251.1 Tach 338.6 Hobbs Removed existing vacuum pump p/n: AA3215CC  
s/n: N38364 and replaced with new Tempest  
p/n: AA3215CC-9 s/n: 1B3X05. Ran aircraft

to check for leaks and operation.

I certify this engine is approved for return to service with respect to the work performed.

Tyler R. West AP4317387

Record

Inspections,

ord  
ctions,

| Date            | Total Time |      | Time Since Last Overhaul |      | Engine Service and Maintenance Record  |
|-----------------|------------|------|--------------------------|------|--|
|                 | Hrs.       | Min. | Hrs.                     | Min. |  |
| Brought Forward | →          |      |                          |      |  |
| 4/30/09         | 145        | 9    | 145                      | 9    | <p>1.) C/W QMA 50hr inspection AS per Qma checklist Amm -11E - 1</p> <p>2.) changed oil &amp; filter serviced w/ 8qts ph.11.ps 20/50</p> <p>3.) Run up &amp; leak check ok</p> <p>Paul Cunard powerplant pending</p> |

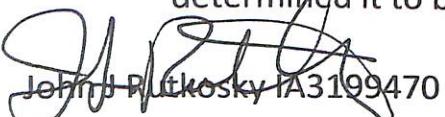
March 29, 2011

Log Book Entry

Quartz Mountain 11E N516BW

Serial # 1007 Tach 160.2 hrs S/N

1. Drained Engine Oil and replaced w/8 qts. Aeroshell W/100. Replaced Oil Filter, Cleaned Fuel Screens Clean & Gap all Spark Plugs, Check Engine Compression 1. 68/80 2. 74/80 3. 72/80 4. 56/80 5. 72/80
6. 74/80, I certify that I have Inspected this engine In accordance with an annual inspection and have determined it to be in airworthy condition.

  
John J. Putkosky IA3199470

DATE: 4-25-14

MODEL: IO-360-ES

TSMOH: 178.6

SERIAL: 360340

TACH: 178.6

N516BW

This engine was Repaired this date in accordance with TCM Parts Manual X30595X, Overhaul Manual X30594A and Service Bulletin MSB96-11B for prop-strike inspection. Crankshaft Magnaflux and Ultrasonic inspected and certified, standard mains and rods, new fits and limits, see tag. Connecting rods magnaflux inspected and certified, see tag. Camshaft and Lifter Bodies reworked, see release forms. Crankcase cleaned and inspected. Internal steel inspected as required, see tag. Engine reassembled using new parts as follows: 1 each 530917 Crankshaft Seal; 1 each SA646597A1 Main Bearing Set; 12 each SA642338 Rod Bearings; 12 each 655959 Rod Bolts; 12 each 654487 Rod Nuts; 1 each SA631348A3 Major Gasket Set; 4 each 654584 Crank gear bolts; 4 each 654586 cam gear bolts; 4 each 655269 Magneto bushings; 6 each SA3610SCP05 Ring Sets; Steel Cylinder Bores honed to standard new fits and limits. Gapped and installed new rings onto serviceable pistons with serviceable piston pins. Assembled Cylinders Complete and installed onto crankcase. Both Slick Magneto inspected and certified, see release forms. Serviced engine with 8 quarts of Aeroshell 50 Mineral and 1 each new CH48108 Filter and ground operation normal with no leaks found. All Gaskets, Safeties and Seals replaced as required. This engine is approved for return to service. Please refer to WO# 4536 for details concerning this repair on file at this overhaul / repair facility. All yellow tags and release forms supplied with this logbook entry. --- END ---

J. F. Folchert

A&P 2089458

FOR

Aircraft Cylinders & Engines, Inc.  
625 Buss Avenue  
Greeley, CO 80631

| ARAPAHOE AERO  |             |              |                   |                    |
|--|-------------|--------------|-------------------|--------------------|
| 12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386   |             |              |                   |                    |
| N516BW   | Continental | IO-360-ES(8) | S/N: 360340       | Total Time: 0178.6 |
| 20 October 2016 Tach Time: 0178.6 Hobbs Meter: 0234.0  |             |              |                   |                    |
| 100 Hour Inspection for Annual completed this date using the Quartz Mountain Aerospace 11E Maintenance Manual Inspection Form as a guide. Engine removed for propeller strike inspection. Inspection completed by Aircraft Cylinders and Engines. Reference log entry dated 25 April 2014 under WO# 4536. Reinstalled engine using original mounts, hoses and hardware as needed. Removed lower spark plugs and pre-oiled engine. Reinstalled spark plugs and completed ground run checks. Performed compression test, results as follows.: #1) 75/80, #2) 74/80, #3) 75/80, #4) 76/80, #5) 74/80, #6) 74/80. Master Orifice - 43. Installed new induction air filter. Straightened baffling as needed. Filled air gaps between baffling and engine with RTV. Seated #1 and #3 intercylinder baffle as needed. Removed #5 rocker cover, rocker arm and push rod. Replaced shroud tube seal at cylinder head and reassembled using new gasket and bend tabs. Rotated #1, #3 and #4 induction flange collars into correct position and torqued nuts. Fabricated governor pad gasket and installed. Adjusted oil PSI as needed. Checked and lubricated engine and propeller controls. Engine run up, leak check and operational check satisfactory. AD's checked through Biweekly 2016-21. I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 HOUR INSPECTION AND WAS TO BE IN AIRWORTHY CONDITION. |             |              |                   |                    |
| L. John Wells A&P 3221132  |             |              | w/o 35409 / 36669 |                    |

N516BW 100 hr. INSPECTION 02-APR-18 Tach: 194.0  
Inspect intake and exhaust system. Lubricated and operate engine controls. Check magneto timing. Compressions: 1) 77/80 2) 79/80 3) 75/80 4) 74/80 5) 77/80 6) 75/80. Check magneto timing. Clean fuel filters. Change oil and oil filter, service w/Phillips 20W-50 X/C and AA48108 filter. Wash engine, run-up I/A/W 14CFR43(C)(2)(I), power checks good. No leaks found at this time. I certify that this engine has been inspected I/A/W a 100 hr. inspection and found to be in airworthy condition at this time. Robert A. Davis Jr.  A&P #3030941

Date: 09/18/2019 Hours: 203.7 HOBBS  
Tail#: N516BW  
Make: QUARTZ MOUNTAIN Model: 11E S/N: 1007  
N516BW ENGINE IO-360-ES SN 360340 1  
100 HR INSPECTION REMOVED SPARK PLUGS CLEANED GAPPED AND CHECKED. PERFORMED COMPRESSION TEST #176/80 #2 72/80 #3 72/80 #4 72/80 #5 80/80 #6 80/80/ CHECKED MAG TIMING. WASHED ENGINE COMPARTMENT THEN RAN AND CHECKED FOR LEAKS. I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE A 100 HR INSPECTION AND FOUND TO BE IN AIRWORTY CODITION AT THIS TIME.

Name: DAYNE BOUNDS

Cert: 2782783 

Co:

Sign: 

# Aircraft Engine Test Verification

This document verifies that the engine model listed below has satisfactorily completed all testing listed below in accordance with TCM standard engine testing specifications as approved by the FAA.

Engine Model

I0360 ES8 B

Engine Serial Number

360340

Testing Completed

Standard Acceptance Test:

Date of Completion 3-22-07 Test Operator TES 03



Teledyne Continental Motors, Inc.  
A Teledyne Technologies Company

Form No 98344

**USE ONLY FUEL CONFORMING TO ASTM D910  
USE OF AUTOMOTIVE GAS IS NOT APPROVED.**



Teledyne Continental Motors, Inc.  
A Teledyne Technologies Company

Printed: 03/26/2007

This engine model I0360ESS, Serial No. 360340 was manufactured on 03/24/2007 by Teledyne Continental Motors in accordance with approved design data and the applicable requirements of Part 21 of the Federal Aviation Regulation. The approved design data for this engine incorporates all changes required by applicable Airworthiness Directives and Teledyne Continental Motors Service Bulletins.



TELEDYNE CONTINENTAL MOTORS  
A TELEDYNE TECHNOLOGIES COMPANY  
PRODUCTION CERTIFICATE NO. 508

| Date     | Total Time |      | Time Since Last Overhaul |      | <b>Engine Service and Maintenance Record</b><br>Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins   |
|----------|------------|------|--------------------------|------|--|
|          | Hrs.       | Min. | Hrs.                     | Min. |  |
| 01-26-08 | 0          | 0    | 0                        | 0    | INSTALLED ON IIE 1007 ON 01-26-08  |
| 1/29/09  | 46         | 8    | 46                       | 8    | 1) Clew 50 hr. QMA checklist<br>Amm-11E-1<br>2) Changed oil & filter service<br>w/ 8 qt phillips 20/50 oil<br>3) Run up lean check OK  |
|          |            |      |                          |      | Mark Clew 3/10/123   |
| 2/3/09   | 52         | 1    | 52                       | 1    | 1) checked fuel pressures per<br>SID 97-3E found within limits<br>ADJUSTED IDLE MIXTURE  |
|          |            |      |                          |      | Mark Clew 3/10/123   |
| 3/10/09  | 98         | 0    | 98                       | 0    | 1) Changed oil and filter serviced<br>w/ 8 qts phillips 20w 50.<br>2) Cleaned & gapped sparkplugs<br>3.) Compression checked<br>1.) 76 2) 64 3) 74 4) 68 5) 77 6) 77<br>4.) Checked engine to magneto<br>timing.<br>5.) Run up and leak check ok<br>6.) AD's checked thru 09-04 issue<br>7.) I certify that this Engine has<br>been inspected in accordance w/<br>100hr inspection as per QMA<br>Checklist Amm-11E-1 and was<br>determined to be in an airworthy<br>Condition. |
|          |            |      |                          |      | Part Corman power plant pending  |