



Transport
Canada
Aviation

Transports
Canada
Aviation

TP3910E

AIRCRAFT TECHNICAL LOGS

Section 3.

ENGINE

Second Edition

January 1987

Canada

ENGINE SERVICE AND

MAINTENANCE RECORD

| DATE | TIME RUN | | TIME SINCE OVERHAUL | | INSTALLATIONS, INSPECTIONS, NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE | REPAIRS, ADJUSTMENTS, MODIFICATIONS ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS. | SIGNATURE | LICENCE NUMBER |
|------------|-------------------|------|---------------------|------|---|---|-------------|----------------|
| | HRS. | MIN. | HRS. | MIN. | | | | |
| | BROUGHT FORWARD → | | | | | | | |
| | A | T | | | | | | |
| 4/17/22 | 227 | 21 | 24 | 8 | Changed oil - 6 qts 20W-50 Phillips Victory. Replaced oil | quick drain with Furuta ball valve drains | [Signature] | 2644107 |
| 8/21/22 | 227 | 09 | 19 | 3 | Changed oil - 6 qts 20W-50 Phillips Victory. Replaced | paper oil filter with S15 reusable stainless steel screen filter | [Signature] | 2644107 |
| 10/4/2022 | | | 19 | 4 | Performed Compression check #1 74/80 HANGAR Strap, Tightened Alternator Inspected I/A/W APP D OF PART 43 | #2 74/80 #3 76/80 #4 74/80, lighted LEFT Exhaust Mounts I certify that this engine HAS BEEN AND WAS FOUND TO BE IN AIRWORTHY CONDITION | [Signature] | AP2644107 |
| 10/11/2022 | | | 19 | 4 | Replaced #1 lower spark plug wire new from | E-Mag | [Signature] | 2644107 |
| 3/24/2023 | | | | | | | | |
| 3/24/2023 | 232 | 16 | 20 | 6 | Changed oil 6 qts 20W-50 Phillips Victory. Cleared Lined oil cooler shutter cable | S-15 reusable filter - no debris - submit oil analysis | [Signature] | 2644107 |
| 8/18/23 | 238 | 14 | 20 | 5 | Changed oil 6 qts 20W-50 Phillips Victory. Cleared | S15 reusable filter - no debris - submit oil analysis | [Signature] | 2644107 |
| 10/06/23 | 239 | 10 | 20 | 6 | Performed Compression check #1 78/80 Spark Plugs I/A BR9ES, checked CERTIFY THAT THIS ENGINE HAS BEEN BE IN AIRWORTHY CONDITION. | #2 76/80 #3 78/80 #4 76/80 I was talked about Exhaust AND looked over engine. I inspected I/A/W AC 43.13 AND WAS FOUND TO | [Signature] | AP2644107 |
| 11/14/23 | 240 | 08 | 20 | 7 | Replaced #4 EGT Probe | | [Signature] | 2644107 |
| 7/6/24 | 249 | 03 | 21 | 3 | Changed oil - 6 qts 20W-50 Phillips Victory. Repla found after cleaning filter | ed S15 filter with Tempest paper filter. No debris | [Signature] | 2644107 |
| 10/11/24 | 252 | 02 | 21 | 5 | Removed Plug and PERFORMED Compression Exhaust System AND checked Controls for HAS BEEN Inspected I/A/W AC 43.13 | check #1 74/80 #2 74/80 #3 74/80 #4 74/80, checked Movement and Stops. I certify that this engine AND WAS FOUND TO BE AIRWORTHY CONDITION | [Signature] | AP2644107 |
| 2/23/25 | 253 | 09 | 21 | 6 | Replaced #2 EGT Probe | | [Signature] | 2644107 |
| 5/4/25 | 254 | 00 | 21 | 7 | Changed oil - 6 qts 20W-50 Phillips Victory. Replaced oil | filter. No debris. | [Signature] | 2644107 |

| | |
|-----------------------------|--|
| TOTAL THIS PAGE | |
| TOTAL FROM PREVIOUS SUMMARY | |
| TOTAL SINCE MFG. | |

MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.

Dynon Change AT
Hobb 1670.7 Tach 1478.6

ENGINE SERVICE AND

MAINTENANCE RECORD

| DATE | TIME RUN | | TIME SINCE OVERHAUL | | INSTALLATIONS, INSPECTIONS, NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE | REPAIRS, ADJUSTMENTS, MODIFICATIONS ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS. | SIGNATURE | LICENCE NUMBER |
|--|------------|--------|---------------------|--------|--|---|-----------|----------------|
| | HRS. | MIN. | HRS. | MIN. | | | | |
| BROUGHT FORWARD → | | | | | | | | |
| 10-21-17 | Hobb | | Tach | | | | | |
| | Dynon | 145.9 | | 153.0 | Compression 1-76 2-74 3-77 4-72 | Change oil 7 qts 15W-50 + filter. Air filter OK | | |
| | Total Time | 1866.6 | | 1632.6 | Clean Replaced Plugs. I certify that this engine has been inspected in accordance with the scope & detail of Appendix D of part 43 and was found to be in a condition for safe operation. DWA Jock IA 2655692 | | | |
| 10/18/18 | | | | | Change oil & filter - 7 qts 5.50W | | | |
| | Dynon | 257.0 | | 203.1 | | | | |
| | Total | 1682.7 | | | | | | |
| | Total | 1927.2 | | 1682.7 | | | | |
| 10/20/18 | | 1927.2 | | 1682.7 | Comp All Above 70180 Replaced Plugs. Lub'd Screens. Stop drillin Baffling. | Controls. Cleaned Air filter. Checked Fuel | | |
| I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH THE SCOPE AND DETAIL OF APPENDIX D TO PART 43 AND HAS BEEN FOUND TO BE IN A CONDITION FOR SAFE OPERATION <u>DWA Jock</u> IA 2655692 | | | | | | | | |
| 10-5-19 | 1981.3 | | 1723.5 | | Comp All Above 1-72 2-76 3-73 4-72/80 Drilled Baffling Check MAG timing. | Lub'd Controls Change oil + filter. Stopped | | |
| I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH THE SCOPE AND DETAIL OF APPENDIX D TO PART 43 AND HAS BEEN FOUND TO BE IN A CONDITION FOR SAFE OPERATION <u>DWA Jock</u> IA 2655692 | | | | | | | | |
| 8/16-20 | 2048.4 | | 175.1 | | Change oil & filter 6 qts 20W-50 | | | |
| 10/3/2020 | 2066.5 | | 1789.1 | | #1-76, 3-75 2-75 4-76/80 Replaced MAG timing. Lub'd Controls. | Plugs. Bore scoped. Cleaned Air filter. Checked | | |
| I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH THE SCOPE AND DETAIL OF APPENDIX D TO PART 43 AND HAS BEEN FOUND TO BE IN A CONDITION FOR SAFE OPERATION <u>DWA Jock</u> IA 2655692 | | | | | | | | |
| 10/17/2020 | 2066.5 | | 1789.1 | | Replaced Left Rear baffle | | | |
| 04/04/2021 | 2099.0 | | 1813.1 | | Changed oil & filter 6 qts 20-W-50 | | | |
| 09/02/2021 | 2152.6 | | 1852.2 | | Changed oil & filter 7 qts 20W-50 | | | |
| 10/11/2021 | 2173.6 | | 1867.9 | | Compression 1-75, 3-78, 2-76, 4-77 over 80 Replaced spark Plugs. Installed oil temp Heat Removed & timed PMAG's After Bearing check. | Cleaned Air filter. Cleaned Fuel Screens. Bore scoped door on oil cooler. Lub'd Controls | | |
| I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH THE SCOPE AND DETAIL OF APPENDIX D TO PART 43 AND HAS BEEN FOUND TO BE IN A CONDITION FOR SAFE OPERATION <u>DWA Jock</u> IA 2655692 | | | | | | | | |
| CARRIED FORWARD | | | | | | | | |
| TOTAL THIS PAGE | | | | | | | | |
| TOTAL FROM PREVIOUS SUMMARY | | | | | | | | |
| TOTAL SINCE MFG. | | | | | | | | |

MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.

ENGINE SERVICE AND

MAINTENANCE RECORD

| DATE | TIME RUN | | TIME SINCE OVERHAUL | | INSTALLATIONS, INSPECTIONS, NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE | REPAIRS, ADJUSTMENTS, MODIFICATIONS ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS. | SIGNATURE | LICENCE NUMBER |
|----------|-------------------|--------|---------------------|--------|---|---|-------------|----------------|
| | HRS. | MIN. | HRS. | MIN. | | | | |
| | BROUGHT FORWARD → | | | | | | | |
| 10/14/13 | | | | | Tach 1476 Hobbs 1666.2 #4 75/80 cold, cleaned spark plugs + gapped, checked mag timing, other routine maintenance. This Engine has been inspected IAW Part 43 APPX D and found to be in a condition for safe operation. | Comp. check #1 79/80 #2 78/80 #3 78/80 | | |
| 5/4/14 | Tach | | Hobbs | | Tach 1479.6 Hobbs 1670.7 Replaced tach hobbs with skyview | Timothy L Mahoney AP476708499 | [Signature] | 2644107 |
| 10-12-14 | 1514.8 | | 1716.2 | | Changese oil w/ 6 quarts Aeroshell 15W50 and Filter. Cleaned Insulation Compr. 1 75/80 2 70/80 3 75/80 4 75/80. Checked and cleaned plugs. I certify that this Engine has been inspected in accordance with Part 43 Appendix D and found to be in a condition for safe operation. | | | |
| 10/12/14 | 1514.8 | | 1716.2 | | Changed oil & filter - 6qts 20W-50 | Dill [Signature] IA 2655692 | [Signature] | 2644107 |
| 4/18/15 | 1522.8 | | 1726.8 | | Replace left magneto and right side | Lightened ignition with P-mags | [Signature] | 2644107 |
| 5/31/15 | 1529.7 | | 1735.6 | | Replaced right and left main tires and tubes | | [Signature] | 2644107 |
| 6/20/15 | 1532.1 | | 1738.7 | | Installed Aerox oxygen system | | [Signature] | 2644107 |
| 10/10/15 | 1552.4 | | 1762.4 | | Skyview T: 72.8 H: 91.7 T: 73.2 | H: 92.3 | [Signature] | 2644107 |
| 10/10/15 | 1552.8 | | 1763.0 | | Compr. 75/80 All Cyl's Changese oil & Filter. Cleaned Plugs & Gapped Lubed Controls. I certify that this Engine has been inspected in accordance with Part 43 Appendix D and found to be in a condition for safe operation. | | | |
| 9/24/16 | | | Hobbs | | Compression 75/80 All Cyl's Changese oil & Filter. Replaced spark plugs. Cleaned air cleaner/Filter. Lubed Controls. I certify that this Engine has been inspected in accordance with Part 43 Appendix D to Part 43 and was found to be in a condition for safe operation. | Dill [Signature] IA 2655692 | | |
| | Tach | 1585.5 | | 1804.9 | | | | |
| | TTSO | 247.5 | | 294.7 | | | | |
| | Dynon Change at | | | 1479.6 | Tach | | | |

CARRIED FORWARD

| | |
|-----------------------------|--|
| TOTAL THIS PAGE | |
| TOTAL FROM PREVIOUS SUMMARY | |
| TOTAL SINCE MFG. | |

MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.

ENGINE SERVICE AND

MAINTENANCE RECORD

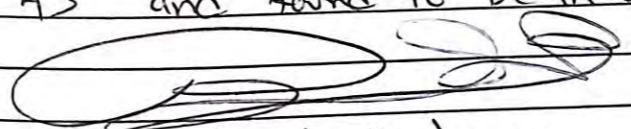
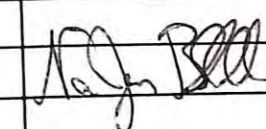
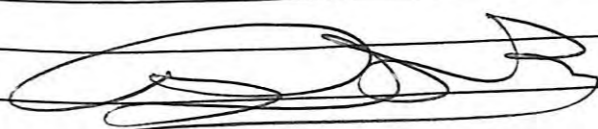
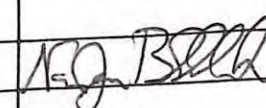
| DATE | TIME RUN | | TIME SINCE OVERHAUL | | INSTALLATIONS, INSPECTIONS, NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE | REPAIRS, ADJUSTMENTS, MODIFICATIONS ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS. | SIGNATURE | LICENCE NUMBER |
|----------|-------------------|--------|---------------------|--------|--|---|-----------|----------------|
| | HRS. | MIN. | HRS. | MIN. | | | | |
| | BROUGHT FORWARD → | | | 1338.0 | | | | |
| 9-7-2010 | 150.2 | 1510.2 | | 1338.0 | <p>hobbs 1338.0 Tach 1338.0 TSMOH disassembled to new limits) per TATSON Lycoming. Installed following parts 4/SL13444-1 relief spring, 1028B ball, 8-74646 retainers, 1-SL13292 seal, all gaskets (o-rings specialty services), 1/74166 camshaft (YT aircraft specialty services), 1/78524 pushrod socket, 4/69603 intake lock plates, 4/STD 821 hoses, 4/SL11020 1/78528 pump body, 1/LW18110 impeller lock plates, 8/65007 retainers, 1/48110 oil 2/76220 studs, 2/74637 bushings, drain, 1/LW15473 fuel pump (YT Aero Parts magnaflux inspected (rods inspected crankshaft inspected & repaired (see YT aircraft specialty services), crankcase inspected and repaired (see Disco YT & Wot# 102804), S/N'S 69354-01, 69354-02, 69354-03 + 69354-04 (see form 8130-3's from ECI) All applicable Lycoming SB's, SL's & MSB's S/N 609092 inspected, following parts 1/10-382584 contact assy - complied with assy installed previously - next insp. due engine (firewall fwd) - replaced alternator used for breakin - ground engine + test</p> <p>I have inspected this engine IAW Part safe operation.</p> <p><i>[Signature]</i> Timothy L Mahoney AP 476708499</p> | <p>cleaned, inspected & reassembled engine (overhaul manual P/N 60294-7 dated 12-1974. Piston pins, 1-LW18790 rocker assy, 61084 oil Red nuts, 1-SL-STD-2213 crankshaft bolt, 1-61156 gaskets & seals, 8/72887 tappet bodies (YT aircraft specialty services), 8/75061 rod bolts, 8/75061 rod bolts, 8/75061 rod bolts, 8/75061 rod bolts, 2/72078 molo bearings, 2/SL13884 molo bearings 1/LW18109 impeller, 1/61124 shaft, 2/71646 filters, 2/74887 spacers, 2/STD-2090 nuts, 8/11485 push rod tubes, 1/07-00879 sump Accessories Inc) 4/SL14995 retainers, all steel ed & rebushed aircraft specialty services YT), aircraft specialty services), crankcase inspected and installed 4 new cylinder assy's P/N AFL65102 69354-04 (see form 8130-3's from ECI) complied with, Bendix magna P/N S44W-21 10-51360-37 replaced 1/10-52949 dist block, 1/10-357584 gear, Teledyne Continental MSB 645 - snap ring impulse 2000.6 hobbs - all hoses replaced assoc. with belt Gates 7315 XL - 8 qts Amsoil 100 oil SONOR.</p> | | |
| | | | | | CARRIED FORWARD | | | |

| | |
|-----------------------------|--|
| TOTAL THIS PAGE | |
| TOTAL FROM PREVIOUS SUMMARY | |
| TOTAL SINCE MFG. | |

MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.

ENGINE SERVICE AND

MAINTENANCE RECORD

| DATE | TIME RUN | | TIME SINCE OVERHAUL | | INSTALLATIONS, INSPECTIONS, NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE | REPAIRS, ADJUSTMENTS, MODIFICATIONS ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS. | SIGNATURE | LICENCE NUMBER |
|-----------------------------|----------|------|---------------------|--------|---|--|---|----------------|
| | HRS. | MIN. | HRS. | MIN. | | | | |
| 9-10-08 | 1406.4 | 4 | Hobbs | 1406.4 | TT comp #1 74/80, #2 74/80, #3 74/80, #4 67/80 Lycoming MSB No. 581 does not apply by date. cleaned + inspected spark plugs, checked oil pump engine has been inspected IAW app. for safe operation. | mag timing OK, cleaned + reoiled air filter, of installation of fuel servo, checked fuel filter, suction screen, other routine maintenance. This D Part 43 and found to be in a condition |  | |
| 5/23/09 | 1463.1 | 1 | | | Changed oil & filter - 8 qts Phillips 66 15W 50W | |  | 2644107 |
| 9-5-09 | 1478 | | Hobbs | | general condition inspection, cyl comp, cold, cleaned + gapped lower spark plugs, replaced air filter K&N P/N E-3450, throttle control Heim joint bolt, checked coupling, checked fuel servo plug, 26-01 due next condition insp, ± appx D and find it in a condition repairs to be made prior to the retainers at slip joints) (too loose) | test #1 77/80 #2 74/80 #3 74/80 #4 67/80 all replaced upper spark plugs with NGK BPR9ES, replaced mixture control fork + pin, tightened mag timing, function tested mag impulse inspected fuel ingestion lines IAW AD 2002- have inspected this engine IAW part 43 for safe operation with the following next flight (repair slip joints + replace |  | |
| 20 May 2010 | 1500.6 | | Hobbs | 1330.1 | hach Replace electric fuel boost pump with Airflow Performance PN 3090050 | |  | 2644107 |
| CARRIED FORWARD | | | | | | | | |
| TOTAL THIS PAGE | | | | | | | | |
| TOTAL FROM PREVIOUS SUMMARY | | | | | | | | |
| TOTAL SINCE MFG. | | | | | | | | |

MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.

ENGINE SERVICE AND

MAINTENANCE RECORD

| DATE | TIME RUN | | TIME SINCE OVERHAUL | | INSTALLATIONS, INSPECTIONS, NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE |
|-------------------------|----------|--------|---------------------|--------|--|
| | HRS. | MIN. | HRS. | MIN. | |
| 9/7/2005 1078.2 Tach | | | | | Complete Annual Inspection this date, 70 - RV Series Service with 7qts Aeroshell 15W50 - inspect filter & fuel injection line inspection - ok - next due 1178-2 Found - Remove oil cooler to seal fittings - Reinstall - #1 75/80 #2 75/80 #3 73/80 #4 79/80 - This an Annual Inspection and was determined to be in |
| 9/20/2006 | | | | | 1101.7 Tach Complete 100hr/Annual Inspection SIMULT. #4 73/80 - Change oil + filter - Service check & clean fuel screen - Replace gas main crankshaft seal p# 76940 - This engine 100hr/Annual Inspection and was determined |
| 3/18/2007 | | | | | Replaced crankshaft seal. Torqued prop lb- to 62 |
| 7/11/2007 | | | | | 1143.2 Tach Changed oil & filter - 6Qts AS 100W |
| 9-7-2007 | Tach | 1324.5 | TT50H | 1324.5 | comp. #1 74/80, #2 73/80, #3 77/80, inspection due at 1470.1 hrs, cked upper Champion REM37B4, replaced upper spark plug fuel inj. lines IAW AD2002-26-01 due next this engine has been inspected IAW for safe operation. |
| 9/7/2007 | #1 | 1324.5 | hobbs | | Changed oil & filter - 7qts AS 100W |
| 4/29/2008 | Tach | 1209.4 | hobbs | 1362.1 | Changed oil & filter - 7qts AS 100W |

CARRIED FORWARD

| REPAIRS, ADJUSTMENTS, MODIFICATIONS ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS. | SIGNATURE | LICENCE NUMBER |
|---|-----------|----------------|
| Checklist - Clean spark plugs - change oil and filter - metal - none found - C/W AD 2002-26-01 Tach - inspect cabin heater for defects - remove Compression Check = Engine has been inspected in accordance with airworthy condition - end - Found MO | | |
| 474723607 AP/TA Compression check, #1 77/80 #2 78/80 #3 78/80 with 7qts Aeroshell 15W50 + new filter - replace filter P# AN6235-2A - Replac engine was inspected in accordance with air to be in airworthy condition - end | | |
| Found MO 474723603 AP/TA | NEG. BELL | 2644107 |
| FT-lbs | NEG. BELL | 2644107 |
| #4 79/80 cold, magneto timing OK, impulse coupling spark plugs + gapped, replaced lower spark plugs with wire boots, cleaned + reoiled air filter, inspected 9-2008, other routine maintenance. I certify that appendix D to part 43 and find it in a condition | | |
| AP 476708499 | | |
| | NEG. BELL | 2644107 |
| | NEG. BELL | 2644107 |

MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.

| | |
|-----------------------------|--|
| TOTAL THIS PAGE | |
| TOTAL FROM PREVIOUS SUMMARY | |
| TOTAL SINCE MFG. | |

ENGINE SERVICE AND

MAINTENANCE RECORD

| DATE | TIME RUN | | TIME SINCE OVERHAUL | | INSTALLATIONS, INSPECTIONS, NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE | REPAIRS, ADJUSTMENTS, MODIFICATIONS ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS. | SIGNATURE | LICENCE NUMBER |
|------------|-------------------|------|---------------------|------|---|---|-----------|----------------|
| | HRS. | MIN. | HRS. | MIN. | | | | |
| | BROUGHT FORWARD → | | | | | | | |
| Nov 23/00 | | | 680 | .5 | OIL & FILTER CHANGED AEROSHELL 100W | | | P359228 |
| Apr 25/01 | | | 732 | .3 | OIL & FILTER CHANGED AEROSHELL 100W | COMPRESSION #1:78 #2:76 #3:77 #4:78 | | P359228 |
| 11/04/2001 | | | 891 | .9 | Note: actual tach time uncorrected for 2400 rpm | Oil and filter changed Aeroshell 15-50 | N. BELL | 2644107 |
| 02/16/2002 | | | 914 | 1 | Replaced left & right magenta with Lightspeed | Engineering Plasma II + electronic ignition | N. BELL | 2644107 |
| 03/16/2002 | | | 919 | .7 | Completed flight test electronic ignition | | N. BELL | 2644107 |
| 04/19/2002 | | | 926 | 1 | Changed oil & filter 6 qts Aeroshell | 15-50 | N. BELL | 2644107 |
| 07/25/2002 | | | 970 | 1 | Inspected engine in accordance with an 100 hr. inspection per Vans A/C inspection list - compression check #1 75/80 #2 75/80 #3 74/80 #4 74/80 - Clean filter - service with Aeroshell 15050 and new recommendations - Remove L mag - Replace timing and time to engine - Run up has been inspected in accordance with an 100 hr. service this date - end. Ronel MA | gap, test spark plugs - drain oil and check oil CH48110 filter - inspect Plasma CDI as per LSE points - and inspect components - set interval and ops check satisfactory this engine hr. inspection and is approved for return to AP474723603 | | |

THE MAINTENANCE DESCRIBED ABOVE HAS BEEN PERFORMED IN ACCORDANCE WITH THE APPLICABLE STANDARDS OF AIRWORTHINESS.

CRYSTAL SHAMROCK, INC
6000 DOUGLASS DRIVE NORTH
MPLS, MN 55429
CRYSTAL AIRPORT
CERTIFIED REPAIR STATION DB2R103L
ENGINE LOG
69NE
8/1/2003 TACH TIME 1029.8 HOBBS TIME 1164.8
CHANGED OIL AND FILTER. INSTALLED 6 QTS. 15W50 AEROSHELL. LEAK AND FILTER CHECK GOOD
COMPRESSION CHECK #1 72/80 #2 76/80 #3 72/80 #4 76/80. CLEANED GAPPED AND TESTED SPARK PLUGS.
CHECKED TIMING AND HARNESS. SAFTIED OIL DRAIN PLUG. DESLUGGED FRONT INSIDE OF CRANKSHAFT.
COMPLIED WITH AD2002-26-01 ON FUEL INJECTION LINES BY SECURING INJECTOR LINES WITH PROPER CLAMPS AND CHECKING FOR LEAKS.

I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A ANNUAL INSPECTION AND WAS FOUND TO BE IN AIRWORTHY CONDITION.

The component identified was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. Pertinent details of the repairs are on file at this repair station under work Order No. R3-16443

Date 8/1/2003 Signed *Brian Holte* For DB2R103L
Crystal Shamrock, Inc. 6000 Douglas Drive N. Minneapolis, MN 55429

August 20, 2004 1046.3TACH 1185.3Hour meter
N69NE ENGINE LOG
#178/80, #2 77/80, #3 74/80, #4 72/80.
Replaced fuel presure sence line. Leak check good. Run up engine and drained oil. Removed oil filter and cut open to inspect, checked good. Inspected oil screen, checked good.
Inspected fuel screen and fuel filter, checked good. Serviced engine with Exxon Elite 20W50 oil and CH48110 oil filter. All run and leak checks good. I certify that this engine has been inspected in accordance with an annual inspection and was determined to be in airworthy condition. BRIAN HOLTE
A&P472823191IA. *B. Holte*

August 20, 2004 1046.8TACH 1185.3 Hour meter
Complied with AD2002-26-01 by inspection of fuel injection lines per Lycoming MSB No. 342D. Checked good, due again in 100 hours.
BRIAN HOLTE A&P472823191IA.
MA *B. Holte*

| | | |
|------------------|--|--|
| TOTAL SINCE MFG. | | |
|------------------|--|--|

ENGINE SERVICE AND

MAINTENANCE RECORD

| DATE | TIME RUN | | TIME SINCE OVERHAUL | | INSTALLATIONS, INSPECTIONS, NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE | REPAIRS, ADJUSTMENTS, MODIFICATIONS ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS. | SIGNATURE | LICENCE NUMBER |
|-----------------------------|----------|------|---------------------|------|--|---|-----------|----------------|
| | HRS. | MIN. | HRS. | MIN. | | | | |
| BROUGHT FORWARD | → | | 234 | .8 | | | | |
| AUG 8/98 | | | 260 | 0 | OIL & FILTER CHANGED AEROSHELL | 100W | T. O. J. | P359228 |
| SEPT 24/98 | | | 288 | .3 | OIL & FILTER CHANGED AEROSHELL | 100W | T. O. J. | P359228 |
| NOV 12/98 | | | 315 | .6 | OIL & FILTER CHANGED AEROSHELL | 100W | T. O. J. | P359228 |
| FEB 6/99 | | | 354 | .1 | OIL & FILTER CHANGE AEROSHELL | 100W | T. O. J. | P359228 |
| MAY 14/99 | | | 409 | .1 | OIL & FILTER CHANGED AEROSHELL | 100W | | |
| | | | | | COMPRESSION TEST. #1: 78 #2: 78 | #3: 77 #4: 78 | T. O. J. | P359228 |
| JULY 22/99 | | | | | #2 VALVE GUIDE REAMED TO .4990 | | | |
| JULY 27/99 | | | 462 | .7 | OIL & FILTER CHANGED | AERO SHELL 100W | T. O. J. | P359228 |
| AUG 27/99 | | | 481 | .1 | BOTH MAGS REMOVED & RE-BUILT MAGS RE-INSTALLED | PER 500 HOUR INSPECTION. SPARK PLUGS REPLACED | T. O. J. | P359228 |
| AUG 31/99 | | | 493 | .9 | ALL VALVE GUIDES REAMED TO .4990 | THE MAINTENANCE DESCRIBED ABOVE HAS BEEN PERFORMED IN ACCORDANCE WITH THE APPLICABLE STANDARDS OF AIRWORTHINESS. | T. O. J. | P359228 |
| OCT 31/99 | | | 509 | .1 | OIL & FILTER REPLACED AEROSHELL 100W | # WOBBLE CHECK COMPLETE | T. O. J. | P359228 |
| DEC 31/99 | | | 530 | .7 | CRANK SHAFT SEAL REPLACED. FUEL PIPES | THE MAINTENANCE DESCRIBED ABOVE HAS BEEN PERFORMED IN ACCORDANCE WITH THE APPLICABLE STANDARDS OF AIRWORTHINESS. | T. O. J. | P359228 |
| MAR 19/00 | | | 552 | .8 | OIL & FILTER CHANGED AEROSHELL 100W | WUR PICKUP CHANGED | | |
| JULY 7/00 | | | 602 | .6 | OIL & FILTER CHANGED | THE MAINTENANCE DESCRIBED ABOVE HAS BEEN PERFORMED IN ACCORDANCE WITH THE APPLICABLE STANDARDS OF AIRWORTHINESS. | T. O. J. | P359228 |
| SEP 7/00 | | | 653 | .1 | OIL & FILTER CHANGED AEROSHELL | THE MAINTENANCE DESCRIBED ABOVE HAS BEEN PERFORMED IN ACCORDANCE WITH THE APPLICABLE STANDARDS OF AIRWORTHINESS. | T. O. J. | P359228 |
| | | | | | CARRIED FORWARD | 100W | | |
| TOTAL THIS PAGE | | | | | | | | |
| TOTAL FROM PREVIOUS SUMMARY | | | | | | | | |
| TOTAL SINCE MFG. | | | | | | | | |

MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.

ENGINE SERVICE AND

MAINTENANCE RECORD

| DATE | TIME RUN | | TIME SINCE OVERHAUL | | INSTALLATIONS, INSPECTIONS, NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE | REPAIRS, ADJUSTMENTS, MODIFICATIONS ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS. | SIGNATURE | LICENCE NUMBER |
|-----------------|----------|------|---------------------|------|--|---|-----------|----------------|
| | HRS. | MIN. | HRS. | MIN. | | | | |
| 1997 | | | 5 | 5 | | | | |
| | | | | | | | | |
| | | | 38 | 0 | OIL CHANGED TO AEROSHELL 100w. FILTER REPLACED. CYLINDER COMPRESSION CHECKED - VALUES ... 1: 77/80 2: 77/80 3: 75/80 4: 77/80. FRONT CRANKSHAFT SEAL REPLACED. BOTTOM PLUGS CLEANED AND RE-INSTALLED. FILTER INSPECTED | | | P359228 |
| JUNE 10 | | | 38 | 0 | | THE MAINTENANCE DESCRIBED ABOVE HAS BEEN PERFORMED IN ACCORDANCE WITH THE APPLICABLE STANDARDS OF AIRWORTHINESS | T. J. J. | |
| JULY 12 | | | 65 | 6 | OIL CHANGED TO AEROSHELL 100w. FILTER REPLACED. FILTER INSPECTED | | | |
| JULY 12 | | | 65 | 6 | | THE MAINTENANCE DESCRIBED ABOVE HAS BEEN PERFORMED IN ACCORDANCE WITH THE APPLICABLE STANDARDS OF AIRWORTHINESS | T. J. J. | P359228 |
| AUG 4 | | | 78 | 0 | REMOVED OIL COOLER FOR CLEANING | | | |
| AUG 5 | | | 78 | 0 | INSTALLED OIL COOLER | THE MAINTENANCE DESCRIBED ABOVE HAS BEEN PERFORMED IN ACCORDANCE WITH THE APPLICABLE STANDARDS OF AIRWORTHINESS | T. J. J. | P359228 |
| AUG 18 | | | 110 | 8 | OIL & FILTER CHANGED AEROSHELL 100. CLEAN & GAPPED PLUGS. CLEANED SERVO COMPRESSION CHECKED 1: 77 2: 77 3: 75 4: 77 | | | |
| | | | | | | THE MAINTENANCE DESCRIBED ABOVE HAS BEEN PERFORMED IN ACCORDANCE WITH THE APPLICABLE STANDARDS OF AIRWORTHINESS | T. J. J. | P359228 |
| NOV. 7 | | | 168 | 3 | OIL & FILTER CHANGED AEROSHELL 100 CLEAN & GAPPED PLUGS. FUEL FILTER STARTER LUBRICATED. FRONT CRANKSHAFT COMPRESSION 1: 76 2: 77 3: 74 | | | |
| NOV 7/97 | | | | | | FUEL INJECTORS CLEANED - ENGINE WASHED. REPLACED. FUEL SERVO FINGER SCREEN CLEANED SEAL REPLACED. ALTERNATOR BELT REPLACED AIR FILTER CLEANED | | |
| | | | | | | THE MAINTENANCE DESCRIBED ABOVE HAS BEEN PERFORMED IN ACCORDANCE WITH THE APPLICABLE STANDARDS OF AIRWORTHINESS. | T. J. J. | P359228 |
| MAY 9/98 | | | 218 | 8 | OIL & FILTER CHANGED 2 LITRES AEROSHELL 100w. OIL LEAK AT OIL PRESSURE SENDER FOR FUEL FLOW TRANSDUCER. ENGINE CLEANED & REPAIRED. COOLING HOLE DRILLED IN RAFFLE | | | |
| | | | | | | THE MAINTENANCE DESCRIBED ABOVE HAS BEEN PERFORMED IN ACCORDANCE WITH THE APPLICABLE STANDARDS OF AIRWORTHINESS. | T. J. J. | P359228 |
| MAY 30/98 | | | 234 | 8 | FUEL FILTER REPLACED. FUEL INT COVER REMOVED #1 AND VALVE SPRINGS INSPECTED. COVER RE-INSTALLED | | | |
| | | | | | | THE MAINTENANCE DESCRIBED ABOVE HAS BEEN PERFORMED IN ACCORDANCE WITH THE APPLICABLE STANDARDS OF AIRWORTHINESS. | T. J. J. | P359228 |
| CARRIED FORWARD | | | | | | | | |

| | | |
|-----------------------------|--|--|
| TOTAL THIS PAGE | | |
| TOTAL FROM PREVIOUS SUMMARY | | |
| TOTAL SINCE MFG. | | |

MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.

ENGINE SERVICE AND

MAINTENANCE RECORD

| DATE | TIME RUN | | TIME SINCE OVERHAUL | | INSTALLATIONS, INSPECTIONS, NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE |
|-----------------------------|----------|------|---------------------|------|--|
| | HRS. | MIN. | HRS. | MIN. | |
| | | | 157 | 19 | KNOWN HOURS, AS REMOVED FROM C-6LNB |
| 4 MAY 26 95 | | 0 | | 0 | ENGINE COMPLETELY DISMANTLED, I.A.W. LYCOMING OVERHAUL MANUAL CRANKSHAFT GROUND MID MAINS ACCESSORY CO. INC. CRANKCASE ENGINE COMPONENTS INCORPORATED. REGROUND BY A.E.A. CONNECTING AERO SERVICES. CYLINDER STUD YAN AERO SERVICES. ROCKER NON DESTRUCTIVE TESTING ON OIL SUMP AND STARTER WHEEL ENGINE REASSEMBLED WITH THE ROD BEARINGS, CONNECTING ROD AND CRANKSHAFT GEAR BOLT, OIL SPRING AND BALL, INTAKE VALVES, VALVE SPRINGS, UPPER AND LOWER EXHAUST LOCKS, EXHAUST AND BUTTONS, PISTONS, PISTON PINS GASKETS, SEALS, HOSES, SPARK MAGNETOS DISMANTLED, CLEANED, 0 0 0 0 INSTALLED ON C-62RY, 8 QUARTS MARCH 29 97 MARCH 29 97 2 1 2 1 RUN IN COMPLETED, CHT'S DROPPED FROM 75% POWER RUN, OIL TEMP DROPPED IDLE SPEED INCREASE JUST BEFORE IDLE FRONT SEAL REPLACED, LEFT MAG OIL PRESSURE FITTING TIGHTENED ON TURN. SPARK PLUGS REMOVED AND INSPECTED ENRICHED, IDLE SPEED ADJUSTED. OIL MAY 15 5 5 CARRIED FORWARD |
| TOTAL THIS PAGE | 5 | 5 | | | |
| TOTAL FROM PREVIOUS SUMMARY | | 0 | | | |
| TOTAL SINCE MFG. | 5 | 5 | | | |

| REPAIRS, ADJUSTMENTS, MODIFICATIONS ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS. | SIGNATURE | LICENCE NUMBER |
|---|--------------------|----------------|
| CLEANED, INSPECTED, OVERHAULED, AL 60294-7 AS FOLLOWS: AND PINS BY AIRCRAFT ENGINEER E LAPPED AND LINE BORED BY TED. CAMSHAFT AND FOLLOWERS RODS RECONDITIONED BY PENN YAN ASSEMBLIES OVERHAULED BY PENN ARMS OVERHAULED BY A.E.A. CRANKCASE, ACCESSORY HOUSING, CARRIED OUT BY LEAVES AVIATION. FOLLOWING NEW PARTS, MAIN BEARINGS, BOLTS, AND NUTS, CRANKSHAFT GEAR, PUMP GEARS AND BODY, OIL PRESSURE EXHAUST VALVES, INNER AND OUTER VALVE SPRING WASHERS, INTAKE AND VALVE CAPS, ROCKER SHAFTS PISTON PIN PLUGS, PISTON RINGS, ALL NEW PLUGS, IGNITION HARNESS OIL FILTER INSPECTED, REPAIRED AS REQUIRED. | <i>[Signature]</i> | M297570 (P42) |
| PHILIPS 20-50M & NEW FILTER 400°F TO 325°-350°F 30 MINUTES INTO 20° F, IDLE MIXTURE ADJUSTED. CONFIRMED CUT OFF. | <i>[Signature]</i> | P359228 |
| REMOVED FOR ACCESS TO OIL PRESSURE FITTING. FUEL INJECTION NOZZLES REMOVED AND CLEANED AND RE-INSTALLED (35 FT/10S). IDLE MIXTURE AND FILTER CHANGED. PHILIPS 20/50M | <i>[Signature]</i> | P359228 |

THE MAINTENANCE DESCRIBED ABOVE HAS BEEN PERFORMED
IN ACCORDANCE WITH THE APPLICABLE STANDARDS OF AIRWORTHINESS

ENGINE LOG

1. Make LYCOMING
2. Model O-360 AIA CONVERTED TO BENDIX
FUEL INJECTION
3. Specification 180 HP.
4. Manufacturer's Serial
Number L-3480-36
5. Date of Manufacture AUGUST 16 / 1960
6. Aircraft Inspection Cycle 100 HOURS