



The Standard

ENGINE LOG

ASA-GE-2

YEAR
20
DATE

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TACH
TIME

CHASAERO LLC 19299 AIRPORT LANE WARSAW, MO 65355
(660) 641-4506

ENGINE LOGBOOK ENTRY

ENG: TCM O-470-R S/N: 191645-8-R DATE: 07/25/2024
REG: N2040X TACH: 4240.87 SMOH: 128.07

1. PERFORMED 100HR INSPECTION IAW FAR 43 APPENDIX D
 2. TIGHTENED LOOSE HARDWARE
 3. R/C/R SPARK PLUGS - NEW GASKETS
 4. INSPECT MUFFLERS AND EXHAUST SYSTEM
 5. DRAINED ENGINE OIL- CUT OPEN FILTER- NO METAL FOUND
 6. REMOVED OIL FILTER ADAPTER- INSTALLED ST-07 GASKET KIT- TORQUED AND SAFETY
 7. SERVICED ENGINE WITH (9) QTS 20W50 XC AND NEW FILTER
 8. REPAIRED PILOT SIDE ENGINE MOUNT HEAT SHIELD
 9. CHECKED MAG TIMING TO ENGINE
 10. COMPRESSION CHECK-HOT 1- 72/80 2-70/80 3-70/80 4-72/80 5-73/80 6- 70/80
 11. CHECKED AD'S
 12. PERFORMED GROUND RUN, LEAK CHECK GOOD
- I CERTIFY THIS ENGINE HAS BEEN INSPECTED IAW FAR 43 APPENDIX D FOR A 100 HOUR INSPECTION AND FOUND TO BE AIRWORTHY.


Chas L. Perkins 3097271 A&P Date: 07/25/2024


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CHASAERO LLC 19299 AIRPORT LANE WARSAW, MO 65355
(660) 641-4506

ENGINE LOGBOOK ENTRY

ENG: TCM O-470-R S/N 191645-8-R DATE: 08/11/2025
REG: N2040X TACH: 4288.22 SMOH: 169.42

1. PERFORMED 100HR INSPECTION IAW FAR 43 APPENDIX D
 2. TIGHTENED LOOSE HARDWARE
 3. R-C/R SPARK PLUGS - NEW GASKETS
 4. INSPECT MUFFLERS AND EXHAUST SYSTEM
 5. DRAINED ENGINE OIL- CUT OPEN FILTER- NO METAL FOUND
 6. SERVICED ENGINE WITH (10) QTS 20W50 XC AND NEW FILTER
 7. CHECKED MAG TIMING TO ENGINE
 8. REPLACED CAPACITOR IN LEFT MAG 10-400615
 9. COMPRESSION CHECK-HOT 1- 74/80 2-74/80 3-65/80 4-68/80 5-75/80 6- 72/80
 10. CHECKED AD'S
 11. PERFORMED GROUND RUN, LEAK CHECK GOOD
- I CERTIFY THIS ENGINE HAS BEEN INSPECTED IAW FAR 43 APPENDIX D FOR A 100 HOUR INSPECTION AND FOUND TO BE AIRWORTHY.


Chas L. Perkins 3097271 A&P Date: 08/11/2025

YEAR 20 23 RECORDING TACH TIME CHASAERO LLC. 19299 AIRPORT LANE WARSAW, MO 65355 (660) 641-4506 Alterations te Number of ecific entries.)

ENGINE LOGBOOK ENTRY

ENG: TCM O-470-R S/N: 191645-8-R DATE: 07/14/2022
 REG: N2040X TACH: 4115.8 SMOH: 3

1. PERFORMED 100HR INSPECTION IAW FAR 43 APPENDIX D
 2. TIGHTENED LOOSE HARDWARE
 3. R/C/W SPARK PLUGS
 4. INSPECT MUFFLERS AND EXHAUST SYSTEM
 5. CHECKED MAG TIMING TO ENGINE
 6. COMPRESSION CHECK 1-75/80 2-76/80 3-72/80 4-77/80 5-76/80 6-79/80
 7. CHECKED AD'S
 8. PERFORMED GROUND RUN, LEAK CHECK GOOD
- I CERTIFY THIS ENGINE HAS BEEN INSPECTED IAW FAR 43 APPENDIX D FOR A 100 HOUR INSPECTION AND FOUND TO BE AIRWORTHY.
 Chas L. Perkins 3097271 A&P Date: 07/14/2022

YEAR 20 23 RECORDING TACH TIME TODAY'S FLIGHT TOTAL TIME IN SERVICE Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)

5-16-23 TACH: 4161.5 CHANGED OIL, FILTER INSPECTED FOR UNUSUAL PARTICLES NONE NOTED. ENGINE SERVICED WITH AEROSHELL 50 W MINERAL OIL. RUN-UP COMPLETED. LEAK CHECK OK. *Randy Dwyer* AP3439145

7-17-23 TACH: 4187.02 ANNUAL INSP. COMPLETED. CHANGED OIL FILTER INSP. FOR UNUSUAL PARTICLES NONE NOTED. ENG. SERVICED WITH PHILLIPS 20/50 X/C OIL. COMPRESSION TEST RESULTS AT 80 P.S.F. #1-75 #2-75 #3-78 #4-76 #5-78 #6-77 SPARK PLUGS CLEANED GAPPED TESTED AND ROTATED. CHECKED MAG TIMING, TIGHTENED ALTERNATOR BELT AND RESAFETTED. EXHAUST SYSTEM AND HEAT MUFFLER CHECKED. ENGINE CONTROLS OPERATION AND RIGGING OK. ENGINE RUN-UP COMPLETED ALL ENG TEARD OIL PRESS NORMAL MAGG DROP OK. I CERTIFY THAT THIS ENGINE HAS BEEN INSP. IN ACCORDANCE WITH AN ANNUAL INSP. AND WAS FOUND TO BE IN AN AIRWORTHY CONDITION *Randy Dwyer* AP3439145

ACCESSORIES

- magnetos(2):** low time, not overhauled. cleaned, inspected and test run only by Mena Aircraft Engines, Inc. of Mena, AR w/o 2400AB, FAA CRS#S9QR340N.
- starter adapter assembly:** p/n 635050A4R, s/n A2111103, mfg. TCM - inspected, overhauled, and certified by Aerotech of Louisville, KY w/o 142585 FAA CRS#PU4R453M.
- oil cooler:** replaced with new AERO-Classics cooler p/n 8000925, s/n 806805, purchased from Aero Performance of Corona, CA invoice #2109007 dated 05/17/2022
- carburetor:** p/n 10-4893-1, model #MA4-5, s/n BD-22-5944, mfg. Marvel-Schebler - inspected, overhauled, and certified by Mike's A/C Fuel Metering Service of Tulsa, OK w/o 32120 FAA CRS#HK2R875K.
- alternator:** p/n DOFF10300J, s/n A-87421, mfg. Ford - inspected, overhauled, tested, and certified by Aerotech of Louisville, KY w/o 142578 FAA CRS#PU4R453M.
- starter:** p/n 1108249, s/n A-88665, mfg. Delco Remy - inspected, overhauled, tested, and certified by Aerotech of Louisville, KY w/o 142579 FAA CRS#PU4R453M.
- propeller governor:** p/n 34-828-01, s/n 1931B - inspected, overhauled, tested, and certified by Aircraft Accessories of Oklahoma of Tulsa, OK w/o 50236 FAA CRS#RV3R829L.
- vacuum pump(wet):** p/n G455, s/n 62382, mfg. Garwin - inspected, overhauled, tested, and certified by Accessories, Inc. of Wichita, KS w/o 91461R FAA CRS#TM2R192L.

NEW PARTS INSTALLED

Major overhaul gasket and seal set, crankshaft oil seal p/n 641250, crankshaft damper bushings, counterweight bushings, counterweight pin, counterweight plates, counterweight snap rings, crankshaft gear attaching screws, camshaft gear attaching screws and woodruff key, starter adapter pilot needle bearing, connecting rod bushings, connecting rod nuts, connecting rod bolts, connecting rod bearings M10, main bearing set M10, crankcase thru-bolt dowels and o rings, crankshaft seal retaining plates, oil temperature vernatherm valve, piston pins, Continental steel cylinder assemblies with valves, springs, retainers, keepers, roto-coils, rocker arm shafts, rocker arm bolts, rocker arm washers, pistons, and piston rings, 12-point cylinder base nuts, 36 small cylinder base nuts, silicone valve cover gaskets, Real Gasket push rod seal kit, valve rocker arm bushings, ignition harness, spark plugs, magneto drive cushions, oil filler cap assembly, oil pressure relief valve kit with spring, induction tube hoses and clamps, crankcase thru-bolts, oil plugs, dipstick hose and clamps, alternator belt p/n S2416-1-31.0, oil quick drain valve, oil cooler, rocker arm thrust washers. supplied new exhaust nuts and blo-proof gaskets.

Engine Test Run & Sign-Off: this engine rebuilt and test run in accordance with current and applicable FAA data and procedures and is approved for return to service. pertinent details of the rebuild are on file at this repair station #S9QR340N under **work order #21J-2400** by Mena Aircraft Engines, Inc. of Mena, AR *Robert Smith* #2549814 June 22, 2022. See back of this engine log book for listing of **Airworthiness Directives** complied with.

MENA AIRCRAFT ENGINES, INC. -- FAA CRS#S9QR340N

Date: June 22, 2022 Engine Total Time: 4112/85 Engine Time Since Major Overhaul: 00.00
Engine Data: Teledyne-Continental engine model O-470-R Engine Serial Number: 191645-8-R
Aircraft Data: Cessna model 182H Registration #2040X Aircraft Serial Number: 18256140

WORK PERFORMED: inspected and rebuilt to new limits in accordance with Teledyne-Continental overhaul manual #X30586A and Teledyne-Continental parts catalog #X30587A.

COMPONENTS

crankshaft/counterweight assembly: magnafluxed, inspected, rod and main journals measure M010 nitrided, cad plated and baked flange, rebushed damper blades, rebushed and overhauled counterweights, installed counterweights with new pins, plates, and snap rings, ultrasonic inspected in accordance with TCM MSB#96-10A, dynamically balance per procedure #98-002, TCM serial number identified as 940, and certified by Aircraft Specialties of Tulsa, OK w/o 269227 FAA CRS#DD2R764K.

connecting rods(6): magnafluxed, inspected, resized, rebushed, balanced, and certified by Aircraft Specialties of Tulsa, OK w/o 269227 FAA CRS#DD2R764K.

camshaft(replaced): p/n 535661 - inspected, reground, parkerized, and certified by Rick Romans, Inc. of Tulsa, OK w/o 56594 FAA CRS#BE2R713K.

hydraulic valve lifters: intake p/n 628488, exhaust p/n 646277 - inspected, overhauled, flow-matched and certified by Aircraft Specialties of Tulsa, OK w/o 269227 FAA CRS#DD2R764K.

COMPONENTS CONTINUED

internal steel(27): cleaned, magnafluxed, inspected, and certified by Aircraft Specialties of Tulsa, OK w/o 269227 FAA CRS#DD2R764K.

crankcase: casting #629257, match #21 - cleaned, zyglod, inspected, surfaced, thru-bolt dowels installed, align-bored, valve lifter bore holes sleeved, stress relieved, and certified by DivCo of Tulsa, OK w/o WDC#130551 FAA CRS#DB2R762K.

mount legs(4): c/n 539518 - cleaned, zyglod, inspected, and certified by Divco of Tulsa, OK w/o 13115 FAA CRS#DB2R762K.

cylinders(6): installed 6 new Continental cylinder assemblies p/n 658816A3 with balanced pistons. 4 purchased from Air Power of Arlington, TX invoice #SOP30105 dated 04/04/2022.

s/n WG-AC22BB309, EB299, BB395, and BB322. 2 purchased from Aircraft Specialties of Tulsa, OK inv.#213206 dated 04/07/2022. flow balanced per procedure #MPCD10CL12.

valve rocker arms(12): magnafluxed, inspected, refaced, rebushed, and certified by Aircraft Specialties of Tulsa, OK w/o 269227 FAA CRS#DD2R764K.

assembling hardware: bright cadmium plated i/a/w UPW SP-01 Rev B, class 3 type II, actual thickness .0003-.0004, hydrogen embrittlement relieve baked @375 +/- 25 degrees F for 3 hours min/no max, i/a/w UPW SP-17 Rev G & UPW SP-01 Rev B, actual temperature 375, and certified by United Plating Works of Tulsa, OK w/o 479820 FAA CRS# FA2R813K.

Engine Record General Information

Manufacturer CONTINENTAL MOTORS Model 0-470-R

Serial 191645-8-R Type Certificate _____

This engine is currently installed in aircraft: CESSNA 182H N2040X
S/N 18256140

Minimum Octane Fuel _____ Oil Grade Summer _____ Winter _____

Magneto Time _____ Point Setting _____ Firing Order _____

Spark Plug Gap _____

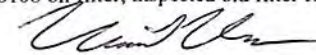
Manufacturer's Recommended Overhaul at 1500 hours OR 12 YEARS

HIGH PERFORMANCE AIRCRAFT ENGINES, INC.

C.R.S. 206-37
MENA, ARKANSAS 71953
501-394-6036

ENGINE LOG
EL-13P

INSPECTION & MAINTENANCE RECORD

DATE: 6-12-2019 Tach: 3997.87 N2040X
 Drained engine oil and serviced with 12 qts Phillip 20W50 XC oil. Installed new CH48108 oil filter, inspected old filter for contaminants, none found at this time. Engine ground ran and leak checked ok. END

 Mike Newman A&P27167431A

9-25-19 TACH: 4035.1 CHANGED OIL, AND FILTER, FILTER INSP, FOR UNUSUAL PARTICLES NONE NOTED. ENGINE SERVICED WITH ~~AEROSHELL~~ PHILLIPS 20W50 XC OIL, ENGINE RUN-UP AND LEAK CHECK OK, *Travis Hays* AP3439145

2-3-20 TACH: 4045.9 TTSMOHT: 1,255.9 ANNUAL INSP. COMPLETED CHANGED OIL, FILTER INSP, FOR UNUSUAL PARTICLES NONE NOTED. SERVICED ENGINE WITH PHILLIPS 20/50 XC OIL, COMPRESSION TEST RESULTS AT 80 PSI #1-68 #2-66 #3-71 #4-69 #5-72 #6-69 SPARK PLUGS CLEANED GAPPED TESTED AND ROTATED, ENGINE CONTROLS OPERATION AND PLUGGING OK, PROP INSP. AND NICKS DRESSED ALTERNATOR BELT ADJUSTED, ENGINE RUN-UP COMPLETED ALL ENG TEMP AND OIL PRESSURE NORMAL I (NEXT PAGE)

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
CERTIFY THAT THIS ENGINE WAS INSPECTED IN ACCORDANCE WITH AN ANNUAL INSP AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION. <i>Travis Hays</i> AP3439145TA		
3/29/21	TACH: 4089.06 TT, SMOHT: 1299.06	ANNUAL INSP. COMPLETED. CHANGED OIL, FILTER INSP, FOR UNUSUAL PARTICLES NONE NOTED. ENGINE SERVICED WITH PHILLIPS 20/50 XC OIL, COMPRESSION TEST RESULTS AT 80 PSI, #1-71 #2-62 #3-60 #4-62 #5-65 #6-66, SPARK PLUGS CLEANED GAPPED TESTED AND ROTATED, ENGINE CONTROLS OPERATION AND RIGGING OK, PROP INSP. NICKS DRESSED, REPLACED BOTH RUBBER FRONT ENG. MOUNTS WITH LORD MOUNT J-6545-1, ENGINE RUN-UP COMPLETED ALL ENG TEMP AND OIL PRESSURE NORMAL I CERTIFY THAT THIS ENGINE WAS INSPECTED IN ACCORDANCE WITH AN ANNUAL INSP AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION. <i>Travis Hays</i> AP3439145TA

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
12/11/17	7.2	Tach = 3845.6 Engine TSMO = 1055.6 Completed 100hr Insp IAW FAR 43 AppD. Change oil & filter. Install 48108 oil filter & added 10 qts of 20W50 Phillips to sump. Comp check #1 $\frac{75}{80}$, #2 $\frac{77}{80}$, #3 $\frac{70}{80}$, #4 $\frac{75}{80}$, #5 $\frac{75}{80}$. #6 $\frac{75}{80}$. Cleaned spark plugs. Replaced oil hose from fire wall to engine. Replaced seat hose to cabin heat unit. Run-up was satisfactory. <u>END</u>
		I certify that this Engine has been inspected in accordance with a <u>Annual</u> inspection and was determined to be in an <u>airworthy</u> condition. Name <u>Mike Newman</u> Number <u>IA 3373-22-4</u>

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
Date: 4-24-18	Tach: 3877.0	N2040X 1087 TSMO
Drained engine oil and serviced with 8 qts Phillip 20W50 XC oil. Installed new CH48108 oil filter, inspected old filter for contaminants, none found at this time. Engine ground ran and leak checked ok. END Mike Newman A&P2716743 <i>Mike Newman</i>		
Date: 10-16-2018	Tach: 3950.9	N2040X 1160
Drained engine oil and serviced with 11 qts Phillip 20W50 XC oil. Installed new CH48108 oil filter, inspected old filter for contaminants, none found at this time. Engine ground ran and leak checked ok. END Mike Newman A&P2716743 <i>Mike Newman</i>		
Date: 1-8-2019	Tach: 3965.4	SMOH: 1175.4 N2040X
Drained engine oil and serviced with 11 qts Phillips 20W50 XC. Installed new CH48108 oil filter and inspected old filter for contaminants, none found at this time. Installed new spark plugs part number URHM40E. Compression as follows 1) 68/80 2) 65/80 3) 64/80 4) 64/80 5) 66/80 6) 64/80. Replaced #5, 6 induction hoses part number SA642917-1. Inspected and lubed all engine controls and checked travel. All AD's checked through this date. I certify that this engine has been inspected in accordance with an 100hr inspection and was determined to be in airworthy condition at this time. END Frank L. Gratton A&P33111341A <i>Frank P. Gratton</i>		

2015

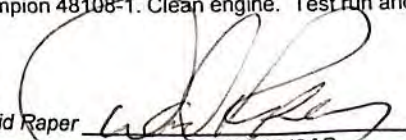
INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
12-09	3620.3	TACH 3749.0, T.S.O. 459.0 This engine inspected I/A/W 100 hours recommended and determined air- worthy. Note: oil not changed this date. Cylinders leak check all reading "Cold" 77/80 or better. Approved for return to service. Spec (Aug 164680) AHP

02-02-17 **N2040X** Engine Log ACTT: 3770.26 Hobbs: 3770.26

Performed 100 hr. inspection on IO 470-R Continental Per FAR 43 Appendix D. Performed differential compression test. Readings as follows #1 71/80 #2 74/80 #3 69/80 #4 73/80 #5 70/80 #6 75/80. Inspected and cleaned screens. No debris found. Checked magneto timing. Both within spec. Changed oil and filter using 10 Qts of Aeroshell W100 and Champion 48108-1. Clean engine. Test run and leak ck. No defects found. Ok to return to service.

Engine TTSMOH : 980.26

David Raper 
2714749AP

2617
TACH
3770.26

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
3/18/17	TACH 3781.64	Replace Magneto's with TCM Rabbit Assy's R.O. Janlog AHP 52456907
6/1/17	TACH 3811.67	Change oil & filter, Phillips Xc. 20W-50. Added, replace carb. heat seat hose, check tires, battery, brakes, wash engine & belly W.A. Sanford AHP 523848359

2010

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
02-03	3557.6	TACH 3686.3 T.S.O. 896.3 This engine inspected 1/4/10 100-hour recommendations and determined airworthy. Changed oil and filter added Groschel W/100 oil. Cylinder leak check as follows: #1 76/80 #2 70/80 #3 73/80 #4 68/80 #5 76/80 #6 74/80 "COLD" readings. Approved for return to service. Fred Aug 1666801 A/P

2011	3581.2	
09-23	3709.9	TACH 3709.9 T.S.O. 919.9 This engine inspected 1/4/10 100-hour recommendations and determined airworthy. Changed oil and filter added Groschel W/100 oil. Cylinder leak check "COLD" readings all 79/80 or better. Approved for return to service. Fred Aug 1666801 A/P

2012

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
10-29	3595.3	TACH 3724.0 T.S.O. 934.0 This engine inspected 1/4/10 100-hour recommendations and determined airworthy. Changed oil, added Aero- Shell W/100 oil. Cylinder leak check "COLD" #1 72/80 #2 72/80 #3 72/80 #4 70/80 #5 76/80 #6 74/80 Approved for return to service. Fred Aug 1666801 A/P

2014		
11-17	3617.3	TACH 3746.0 T.S.O. 956.0 This engine inspected 1/4/10 100-hour recommendations and determined airworthy. Changed oil added AeroShell W/100 Plus oil. Cylinder leak check "COLD" readings all 79/80 or better. Approved for return to service. Fred Aug 1666801 A/P

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
2007 05-07	3493.8	TACH 3622.5 T.S.O. 837.5 This engine inspected I/A/W 100 hour recommendations and determined airworthy. NOTE: oil not changed this date. Cylinder leak check (COLD) all readings 7/80 or better. Approved for return to service. Fred King 1666801 AHP

2008 11-12	3515.6	TACH 3644.3 T.S.O. 854.3 This engine inspected I/A/W 100 hour recommendations and determined airworthy. NOTE: Oil not changed this date. Cylinder leak check (COLD) all readings 7/80 or better. Performed 500 inspection and lubrication on No. 1 mag nets. Repaired defective #4 cylinder lower
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INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
2008		Spash plug lead. Approved for return to service. See A.D. Camp license record front of log. Fred King 1666801 AHP

2009 05-05	3537.3	Tach 3666.0 T.S.O. 876.0 Removed oil pressure screen and installed F+M Enterprises C6LC-S engine oil filter adapter assembly I/A/W STC, SE09356 SC installation instructions Sec 337 this date. for details. Installed C481107 filter engine ground run & lead checked OK. Approved for return to service. Fred King 1666801 AHP
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INSPECTION & MAINTENANCE RECORD

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DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
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DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
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**Date: 2-22-2005 Make: Continental Model: O-470-R S/N: 191645-8-R
TTSN: 3454 Tach: 3583 TSMOH: 793**

Plane-N-Specter

Date: 4-8-06 Tach: 3596.01 EngTT: 2965.79 N#: N2040X

Corrected time in service discrepancy from last log entry. Replaced oil cooler gaskets in accordance with Continental Service Manual. Cleaned and gapped spark plugs in accordance with Champion Service Instructions. Replaced cyl 1 bottom spark plug. Installed all spark plugs with new gaskets in accordance with Champion Service Instructions. Inspected exhaust for leaks. Drained oil, inspected oil screen and serviced with AS100W oil. Drained and cleaned air oil separator. Checked magneto to engine timing. Compressions are as follows: #1 71/80 #2 73/80 #3 71/80 #4 72/80 #5 72/80 #6 72/80. All applicable ads have been complied with. I certify this engine has been inspected in accordance with 100 hour Inspection and found to be airworthy. End.

Performed 100 hour inspection on this engine. Drained oil, cleaned oil screen, serviced with 10 qts Aeroshell W100 oil, replaced air filter with new unit, tightened all rocker box covers, lubed all control cables.

Cylinder Compression Checks are as follows:
#1=71/80, #2=72/80, #3=70/80, #4=71/80, #5=70/80, #6=72/80

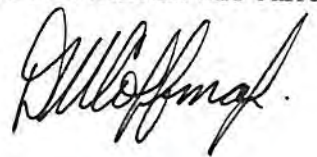
AD's and/or special inspections:
NO NEW AD'S FOR THIS ENGINE

I certify that this engine has been inspected in accordance with a 100 hour inspection as outlined in the Cessna Service Manual and current FAR's and has been found airworthy.



Samuel Cruz 597-26-0979 A&P

Donald W. Coffman, Jr.
AP521314404IA



I certify that this aircraft has been inspected in accordance with Annual inspection and was determined to be in airworthy condition.
Date: 22 Feb. 05 Merid A. Foyth
Tach. Reading: 3583 FA 1772337

INSPECTION & MAINTENANCE RECORD


DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.

January 5, 2002 N2040X Cessna 182H Ser# 18256140
 Tach 3349.21 Total Time Airframe 3406.9 Elt Due January 2003
 Pitot Static Due December 2002 Engine O-470R Ser# 191645-8-R
 TTSN 2718.99 TSMOH 558.81

Inspected Engine in accordance with an Annual Inspection as per Cessna service manual. And TCM service manual. Inspected exhaust system for condition, Muffler checked for evidence of leaks found "OK". Checked plugs Compression is as follows

#1 71 #3 72 #5 73 #2 72 #4 73 #6 73
 80 80 80 80 80 80

I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND HAS BEEN FOUND TO BE IN AIRWORTHY CONDITION AT THIS TIME AND IS APPROVED FOR RETURN TO SERVICE.

Jonathan Rute

 A&P565172160IA

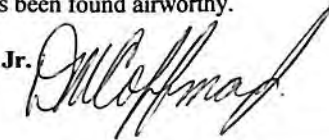
INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.

01/29/2003 Tach: 3446.45 TTAF: 3504.14 N2040X

Performed annual inspection on this aircraft. Removed all inspection plates, lubed aircraft IAW Cessna 182 lube charts, checked all cable tensions and control surface travels, re-riveted copilot seat rail, removed bug nest in tail, replaced ELT battery (due Mar 2008), resealed RH brake caliper, relined both RH and LH brakes, tightened alternator belt, repositioned LH fuel tank vent line, replaced aileron servo cable, repaired damaged RH wing tip, installed AVGAS placards at tank fillers, fabricated new gascolator drain line and installed, **complied with recurring AD's 87-20-03R2 seat rail inspection, 76-07-12 Bendix ignition switch, and 83-13-01 fuel cap inspection, 72-03-03 flap jack screw, 72-07-09 tail bulkhead cracks, performed ELT check IAW FAR 91.207,** cleaned all fuel filters, checked all fuel, oil and hyd lines for leaks, serviced tires with shop air. I certify that this aircraft has been inspected in accordance with an annual inspection as outlined in the Cessna 182 Service Manual and current FAR's and has been found airworthy.

Donald W Coffman, Jr.
 A&P521314404IA



INSPECTION & MAINTENANCE RECORD

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
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DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
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December 6, 2000

N2040X Cessna 182 H Ser# 18256140

Engine installed: Continental O-470-R Ser# 191645-8-R

Tach: 3291.62 TTAF: 3291.62 TSMOH 501.12

Inspected engine in accordance with a 100hr/ Annual inspection

Cleaned and gapped plugs, checked mag timing, lubed breaker point felt,

compression as follows #1 77 #3 75 #5 77 #2 78 #4 75 #6 76

80 80 80 80 80 80

Checked muffler and exhaust system for evidence of leaks or cracks.

I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND HAS BEEN FOUND TO BE IN AIRWORTHY CONDITION AT THIS TIME. THIS ENGINE IS APPROVED FOR RETURN TO SERVICE.

Jonathan E. Rute

Jonathan E. Rute
A&P565172160IA

*Aug 28, 2001 Tach 3326.7
I drained and removed screen clean and
refill with 17 qt. 100W Shell oil.
Lubed Lubert. 485308697 GAP.*

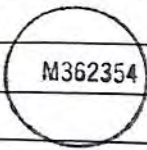
INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
10-1-99	TACH 3148.1 SMOD 358.3	INSPECTED ENGINE I/AN ANNUAL/100 HOURS I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND HAS BEEN FOUND TO BE IN AIRWORTHY CONDITION AT THIS TIME Smith R. Pto A&P 56572108 IA
10-27-99	3171.07 TSMOH 380.51	Drained oil, cleaned screen, serviced with 11Qts 15W50 Aeroshell Ground Run Leak std OK A&P 49/664498 Chris P
4-20-00	ISON TACH 3198.37	DRAIN & CHG OIL ON SCREEN FOR METAL NONE FOUND RUN UP ENGINE, NO OIL LEAKS John Corley #1521007
6-24-00	3238.19	Removed leaking oil cooler. Installed oil cooler P/N 627392R with new gaskets. →

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
5-2-2000	TACH 3222.1	TSMOH 431.6 Drained & change oil, reserviced with 10qts 15w50 Aeroshell, run up no leaks found. Jeffery A. Eckhardt A&P 506789436IA
6-24-00	3238.19	Removed leaking oil cooler. Installed oil cooler P/N 627392R with new gaskets.

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



John Corley

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
12-14-97	3122.6	Tach changed oil; checked screen 10 qts 15/50 A/S, run leak v good from WIWR604K w/o 7060

Reg. No. - N2040X

Date 8/13/98

I certify that this engine has been inspected in accordance with an annual inspection and determined to be in airworthy condition at this time. Other details of this inspection are on file at this facility under work order no. 8228. Complied with Westwind Aviation annual inspection checklist.

For AD compliance, see recurring AD sheets and AD listing.

Compression: #1 64 #2 64 #3 64 #4 72 #5 66 #6 68.

Changed oil 12 qts. A/S15W50, cleaned and gapped plugs. Replaced missing exhaust nuts on #2 & #5 cylinder. Replace prop spinner, P/N 0752637-17 bulkhead. Prop re-sealed & inspected to verify AD compliance. Checked magneto for compliance with AD 94-01-03R2 check ok. C/W AD 96-12-07, impulse coupling, due ea. 500 hr.



Westwind Aviation, Inc.

TTAF	3135.3
Tach	3135.3
TSN	3006.6
TSMOH	345.3

Authorized Signature

[Signature]

FAA Approved Repair Station No. WIWR604K

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
9-30-99	3148.8	C/W AD 100 HOUR INSPECTION AND SERVICE USING CENT & CARBURETOR SERVICE MANUALS SEE ATTACHED SERIAL INSP. FORMS, THERE NOW IN PERMONT PART AD/AD RECORDS Comp 17 1/2 20 27 1/2 30 47 1/2 57 1/2 67 1/2 ALL AD'S & COMPLIATIONS THRU 99-09-17 CRK S/D AFT NA BY PURCHASER DATE
		I certify that this <u>ENGINE</u> has been insp. in accordance with an <u>100</u> inspection and was determined to be in airworthy condition. Date <u>9-30-99</u> <u>83 KRS F100X118ST</u> Tach Time <u>3148.8</u> Total Time <u>3148.8</u> <u>352.3 SMOH.</u>
		Sig: <u>[Signature]</u> <u>155754011P</u>

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
5-16-97	Hobbs	NOT INSTALLED TACH: 3051.27 SMOH: 261.27 SPOH: 261.27 100 HR INSPECTION PERFORMED IN ACCORDANCE WITH CONTINENTAL SERVICE MANUAL. DRAIN OIL AND REMOVED OIL SCREEN FOR INSPECTION AND CLEANING. REINSTALLED OIL SCREEN AND ADD 11qt PHILLIP 20W50. COMPRESSION: #1-68, #2-68, #3-74, #4-75, #5-70, #6-77. INSPECT EXHAUST MUFF, HOSES, FITTING AND WIRING. AD 82-13-01 MAG & Eng 1/4 @ OH. AD 96-12-07 MAG FAILURE DUE @ 3290.0 HRS. AD'S THRU 97-09F HAVE BEEN COMPLIED WITH. WASHED ENGINE AND GROUND RUN.
		Walter Brown 441480417

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
5-16-97	TACH 3051.27 SMOH 261.27 SPOA 261.27	I CERTIFY THAT THIS ENG/PROP HAS BEEN INSPECTED IN ACCORDANCE WITH A/an ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION. SIGNATURE <u>WALTER BROWN</u> A/C, IA <u>441480417</u>
6-16-97	3079.12	DRAINED THE ENGINE OIL. INSTALLED A NEW FILTER. SERVICED THE ENGINE USING 12 qts Phillip 20W-50 WASHED THE ENGINE AND GROUND RUN THE AIR- CRAFT. LEAKAGE CHECK OF THE FILTER WAS SATIS- FACTORY. THIS IS TO CERTIFY THAT THIS MAINTENANCE IS AIRWORTHY AND IS APPROVED FOR RETURN TO SERVICE. PERTINENT DETAILS ON WORK ORDER # 12516 Signed <u>Edward D. Duff</u> Inspector Business Aviation CRS DDNR793K Sioux Falls, SD 57104

INSPECTION & MAINTENANCE RECORD

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
5-11-95	Tach 2950	COMPRESSION VALVES ALL SATISFACTORY 76 to 78 OVER 80 PSI.
5-11-95	Tach 2950	I CERTIFY THAT THIS <u>ENGINE</u> HAS BEEN INSPECTED IN ACCORDANCE WITH AN/A <u>ANNUAL</u> INSPECTION, AS PER FAR 43 APP D, AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION ON THIS DATE <u>5-11-95</u> . DOUGLAS E RICHMOND, I.A. 147484082 <u>[Signature]</u>
7-8-96		ALL APPLICABLE AD'S COMPLIED WITH TO DATE

I certify that this ENGINE has been inspected in accordance with an/a ANNUAL inspection as per F.A.R. 43 app. D and was to the best of my knowledge determined to be in airworthy condition on this date 7-8-96
[Signature]
 D.E. Richmond I.A./ A/P 147484082

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
7-8-96		I certify that this <u>Propeller</u> has been inspected in accordance with an/a <u>Annual</u> inspection as per F.A.R. 43 app. D and was to the best of my knowledge determined to be in airworthy condition on this date <u>7-8-96</u> <u>[Signature]</u> D.E. Richmond I.A./ A/P 147484082

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
6-15-94	2878.75	Charged oil & Filter Phillips X-C 20 W 50 11 qts
7-16-94	2880.10	SMOH 90.10 I certify that this Aircraft Engine has been inspected I.A.W. an 100 hr TASP and was determined to be in Airworthy condition on this date 7-16-94 IA 147484082 HHP

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
7-16-94	2880.10	Installed new union fitting in manifold pressure sense line on manifold connection, aft of carb. Performed compression check with the following values #1 $\frac{80}{68}$ #2 $\frac{80}{65}$ #3 $\frac{80}{70}$ #4 $\frac{80}{68}$ #5 $\frac{80}{66}$ #6 $\frac{80}{70}$
	SMOH 90.10	Installed 4 EA new fasteners on air intake duct flex connection. filed and blended 3 EA propeller nicks. Cleaned, gapped, and rotated all plugs.
		Confirmed compliance with all applicable A.D.'s
7-16-94	2880.10	I certify that this Engine has been inspected in accordance with an Annual Inspection, and was determined to be in Airworthy condition on this date 7-16-94 IA 147484082
	SMOH 90.10	END

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
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**HIGH PERFORMANCE AIRCRAFT
ENGINES AND COMPONENTS, INC.**
MENA, ARKANSAS 71953 501-394-6026
C.R.S. No. YT1R65OK

Maintenance manual and acceptable practices of
AC 43.13 1A/2A.

Run up and leak check of engine satisfactory.

This engine has been inspected in accordance with an
100 hr inspection and was found to be in an airworthy
condition.

Date: 7-16-93 Signed: A.J. Hadaway
A & P 431708437

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
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21 AUG 93 Tach 2807.2 Changed oil & oiled oil screen OK
Serviced with 11 qts of Phillips Brake in oil
Checked torque on cyl Bolts, Ex Bolts
checked mag Timing @ 22° checked Eng for
loose Bolts, screws, clamps & Hoses.

Jerry L. Ockman
A & P 1868561 IA

19 NOV 93 Tach 2828
Installed a Aircraft Products oil filter Adaptor kit
See 337 This date changed oil checked oil screen OK
Serviced with 12 qts of Phillips Brake in oil A/C
Flown to check new system for oil leaks Jerry L. Ockman
A & P 1868561

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.

**HIGH PERFORMANCE AIRCRAFT
ENGINES AND COMPONENTS, INC.**
MENA, ARKANSAS 71953 501-394-6026
C.R.S. No. YT1R65OK

The aircraft, aircraft engine, or appliance identified above 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 repair are on file at this repair station under Order # 758, Date: 7-16-93
Signed *A. L. Hadaway* for
High Performance Aircraft Engines and Components, Inc.
C.R.S. #YT1R 65OK

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.

**HIGH PERFORMANCE AIRCRAFT
ENGINES AND COMPONENTS, INC.**
MENA, ARKANSAS 71953 501-394-6026
C.R.S. No. YT1R65OK

Tach Time: 2790.00

July 15, 1993

Installed recondition engine mount P/N:07516001, S/N: K0490, overhauled manifold pressure gauge P/N: 51301-1, S/N: A9089, new mixture control cable P/N: 51234-3, carburetor heat cable P/N: 51230-3, overhauled propeller model 2A34C203, S/N: 700865 and overhauled engine model O-470-R, S/N: 191645-8-R onto aircraft model 182H, S/N: 18256140 with new lord mounts, bonding straps, hoses and hardware as required and in accordance with Cessna 182

(continued)

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
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**HIGH PERFORMANCE AIRCRAFT
ENGINES AND COMPONENTS, INC.**
MENA, ARKANSAS 71953 501-394-6026
C.R.S. No. YT1R65OK

Starter adapter overhauled by High Performance Aircraft.
Stacks repaired by Dawley Aviation, Burlington, WI.
Muffler repaired by Dawley Aviation, Burlington, WI.
Engine mount overhauled by Kosola & Associates, Albany, GA.
Manifold pressure gauge overhauled by Ruby Aircraft
Instruments of Rudy, Arkansas.

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INSPECTION & MAINTENANCE RECORD

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**HIGH PERFORMANCE AIRCRAFT
ENGINES AND COMPONENTS, INC.**
MENA, ARKANSAS 71953 501-394-6026
C.R.S. No. YT1R65OK

Cylinders Cermicrome by Engine Components, Inc., San Antonio,
Texas.
Cylinders polished and air flow balanced.

High Performance Service Bulletin #1 (enclosed) to be
complied with on or before first 15 hours of operation. ONE COPY
MUST BE RETURNED TO HIGH PERFORMANCE AIRCRAFT ENGINES.
AD Notes listed on page five in log book.

(CONTINUED NEXT PAGE)

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.

**HIGH PERFORMANCE AIRCRAFT
 ENGINES AND COMPONENTS, INC.**
 MENA, ARKANSAS 71953 501-394-6026
 C.R.S. No. YT1R65OK

cushions, woodruff key, hose clamps, needle bearing, crankshaft gear bolts, camshaft gear bolts, rocker arm shafts, rocker arm shaft bolts, rocker arm shaft washers, oil pressure spring, piston pins, lord mounts, alternator belt, intake valves, exhaust valves, tops, outer springs, inner springs, ring set and pistons.

Crankcase stress relieved, line bored and resurfaced by DivCo, Inc., Tulsa, Oklahoma.

Camshaft reground by Aircraft Specialties Services, Tulsa, Oklahoma.

Crankshaft magnafluxed and dimensionally checked by Aircraft Specialties Services, Tulsa, Oklahoma.

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INSPECTION & MAINTENANCE RECORD

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**HIGH PERFORMANCE AIRCRAFT
 ENGINES AND COMPONENTS, INC.**
 MENA, ARKANSAS 71953 501-394-6026
 C.R.S. No. YT1R65OK

Counterweight rebushed and magnafluxed by Rick Romans, Inc., Tulsa, Oklahoma.

Starter and alternator overhauled by Aero Electric, Inc., Wichita, Kansas.

Magnetos overhauled by High Performance Aircraft Engines, Mena., Arkansas.

Carburetor overhauled by Aircraft Accessories, Tulsa, OK.

Oil cooler overhauled by Serviceable Southwest Cooler Service, Dallas, Texas.

Governor overhauled by Aircraft Accessories, Tulsa, OK.

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INSPECTION & MAINTENANCE RECORD

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**HIGH PERFORMANCE AIRCRAFT
ENGINES AND COMPONENTS, INC.
MENA, ARKANSAS 71953 501-394-6026
C.R.S. No. YT1R65OK**

TOTAL TIME SINCE NEW: 2661.3
Zero since major overhaul

July 16, 1993

Major overhaul Continental engine Model O-470-R, Serial No. 191645-8-R accordance with Continental Overhaul Manual.

Installed new parts in engine as follows: major overhaul gasket, counterweight plates, counterweight snap rings, counterweight pins, spark plugs, exhaust lifter, intake lifters, main bearing set, alternator belt, harness, connecting rod bearings, connecting rod bolts, connecting rod nuts, cotter pins, crankshaft seal, seal retainers, seal retainer screws, magneto

(CONTINUED NEXT PAGE)

AIRWORTHINESS DIRECTIVE / FACTORY BULLETIN COMPLIANCE RECORD

A.D./BULL. NUMBER	ITEM AFFECTED	DATE & HRS. AT COMP.	METHOD OF COMPLIANCE	TYPE OF A.D. 1 TIME/RECUR.	NEXT COMP. DATE/HRS./CYCLE	AUTHORIZED SIGNATURE CERTIFICATE NO.

AIRWORTHINESS DIRECTIVES

High Performance Aircraft Engines has complied with the following AD notes on
 CONTINENTAL Engine Model # 0-470-R, Serial # 191645-8-R.

A.D. #	Date and time of compliance	Method of Compliance	Due Date	Signature
78-09-07	7-16-93 2661.3	IMPULSE. 500 HR INSPECTION IN ACCORDANCE WITH SB 599B.		<i>A. J. Anderson</i> A. J. ANDERSON

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J.T.S MOA = 2790. ~~2790~~ - TACH

7/15/93

2790

2790

Mena AR
3950 10/20/18