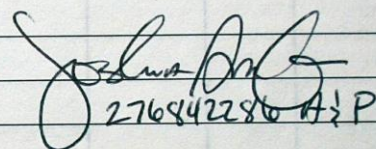


Engine Record General Information

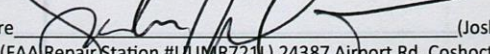
Manufacturer Continental Model 0470R
 Serial 84706-3-R-4 Type Certificate _____
 This engine is currently installed in aircraft Cessna 182F N3639U S/N 18255039

YEAR	TACH TIME	FLIGHT	TIME IN SERVICE	Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
09/27/2017	3369.0		TSM04 1822.6	ENGINE REMOVED TO FACILITATE ENGINE OVERHAUL.  276842286 A-1 P

Engine Overhaul Date: 01-24-2018 Total Time: 3369 Model: O-470-R3 Serial: 84706-3-R-4
 Performed preliminary inspection. Overhauled engine with reference to CMI Publication X30586, Overhaul Manual, Change 6, dated Oct. 2013, and CMI Publication M-0, Maintenance Manual, Change 1, dated May 2016. Internal steel inspected and repaired by Aircraft Specialty Services, FAA Repair Station # DD2R764K, under Work Order 245381. The following items were returned with form 8130-3: crankshaft assembled with 2 counterweights, 6 connecting rods, 12 lifters, 12 rocker arms, starter shaft, 10 gears. Reassembled engine using gasket kit SA646546A1; new connecting rod bearing set P/N SA530383. Assembled crankshaft gear to crankshaft with new bolts P/N 656990. Assembled camshaft gear to camshaft with new bolts P/N 654588. Crankcase inspected and repaired by Divco Inc., FAA Repair Station #DB2R762K, under Work Order #119639 and returned with form 8130-3. Crankcase reassembled with new main bearing set P/N SA537401-A3; new crankcase through bolts P/N 630943-10.50 (x4), P/N 630943-8.88 (x2), P/N 641930-9.81 (x1), P/N 641931-10.75 (x7). Engine mounting legs cleaned and dye-penetrant inspected. No cracks noted. Painted and reinstalled mounting legs. Installed new cylinder and valve assemblies P/N SA470065-A21P, Position #1, S/N 4765-J17-4024; #2, S/N 4765-J17-4026; #3, S/N 4765-J17-4021; #4, S/N 4765-J17-4023; #5, S/N 4765-J17-4025; #6, S/N 4765-J17-4022. Installed new piston pins 539467 (x5); new piston pin P/N SA539467 (x1, cylinder #6); new piston ring sets P/N SA4000-5C2 (x6); new rocker shaft washers P/N 653188 (x24); new push rod housing washers P/N 534609 (x48); cylinder nuts P/N 652541 (x12), P/N 531001 (x36).
 Vernatherm cleaned, inspected, and ops checked in boiling water. Ops check good. Painted and reinstalled vernatherm. Removed oil cooler P/N 627392, S/N AA8352. Installed P/N 627392 S/N 75, overhauled by AMETEK D.B.A. Drake Air, FAA Repair Station # I12R899K under Work Order DOI101242. Induction tubes cleaned, inspected, and painted. Reinstalled with new hardware and new hoses P/N 64994-13 (qty 10). Exhaust system inspected and found to be serviceable. Exhaust will be installed at time of engine installation on engine.
 Requested and received new engine data plate from Continental Motors per approval letter from FAA dated 11-27-2017. Installed new data plate on engine and surrendered old plate to FAA.
 Accessories: Carburetor P/N 10-3965-12, S/N H-17-2808 removed and shipped. Overhauled by Professional Aircraft Accessories, FAA Repair Station # PO5R554Y under Work Order 60218, and reinstalled on engine.
 Removed magnetos: P/N 10-79020-10, S/N 833528 (left) and S/N 833530 (right). Installed magnetos P/N 10-79020-10 overhauled by Kelly Aerospace, FAA Repair Station # 9KJR356C; S/N F-05400, Work Order KES1705-408 (left); S/N F-10160, Work Order KES1710-187 (right). Installed new ignition harness P/N KA11730. Spark plugs: cleaned, inspected, gapped, and ops checked. Magnetos installed and timed to 22 deg. BTDC. Spark plugs installed and torqued.
 Continued on following page >

Engine Overhaul (continued) 01-24-2018
 Replaced starter by P/N 1108249 S/N 19394 overhauled by Aerotech Louisville, FAA Repair Station PU4R453M under Work Order 123028. Starter will be installed on engine at time of installation on airframe. Removed propeller governor P/N A210680 S/N 1761396. Governor overhauled by Professional Aircraft Accessories, FAA Repair Station #PO5R554Y, under Work Order 60218 and reinstalled. Removed alternator during engine disassembly and testing. Alternator will be reinstalled at time of installation on airframe. Removed baffling for engine disassembly. Baffling will be installed at time of installation on airframe. Starter adapter disassembled, inspected, and reassembled. Internal components inspected and repaired by Aircraft Specialty Services (see above). Replaced clutch spring with new P/N 539800-M015. Dye-penetrant inspected serviceable starter worm wheel for cracks. None found. Assembled with new bearings P/N 641368, X13041, 534685; retaining rings P/N 502287, 534715; key P/N MS35756-8. Oil pump disassembled, inspected, internal steel inspected by Aircraft Specialty Services (see above), and reassembled. Installed spin-on oil filter adapter F&M Enterprises M/N C6LC-S IAW STC SE093565C. See FAA Form 337 dated 01-24-2018. Fuel supply hose and oil pressure indication hose fabricated using new Aeroquip 303 hose, new Stratoflex 2650 fire sleeve and clamps P/N 900591B. Reassembled fittings. Hoses pressure tested at 1,000 psi for 2 minutes. No leaks noted. Hoses will be installed at time of installation on airframe. AD Compliance verified through period 2018-01. Performed Standard Acceptance Test with reference to Overhaul Manual section 72-70-14A. Engine operation normal, no leaks noted.

The aircraft, airframe, aircraft engine, propeller, or appliance identified above was repaired and inspected in accordance with current maintenance rules 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 Work Order # 2398RS

Authorized Signature  (Joshua J. Adelsberger)
 MMS Aviation (FAA Repair Station #UUMR721L) 24387 Airport Rd. Coshocton, OH 43812

Note: Oil filter adapter cylinder will require re-torque to 65 ft/lb after 10 hours time in service IAW manufacturers installation instructions.



24387 Airport Rd.
Coshocton, OH 43812
Phone: 740-622-6848

Registration:	N3639U	Date:	05/23/2018
Manufacturer:	Continental	Tach Time:	3369.0
Model:	O-470R	TSMOH:	0
Serial Number:	84706-3-R-4	Total Time:	3369.0

- Installed engine on Cessna 182F, S/N 18255039, registration N3639U.
- Installed starter. Torqued to 210 in. lbs. in accordance with Table B-2, Continental M0 Manual.
- Vacuum pump left off engine at customer request. Installed serviceable cover (P/N 640380-CTM) with new gasket. Torqued to 100 in. lbs. referencing Continental M0 Manual.
- Reinstalled exhaust stud in cylinder #4.
- Adjusted oil adapter to accommodate oil filter. Torqued and safetied. Installed oil filter P/N CH48108-1, torqued and safetied.
- Both magneto p-lead wires replaced using existing wires as reference. Used CSM 182 '69-76 Sec. 20—ignition system as reference. Used MS22759/18gg shielded wire and P/N 31890 ring lugs (x8). Repaired frayed noise filter wire on LH magneto.
- Using existing line as a pattern, fabricated new fuel primer line using 1/8" copper tubing reusing serviceable sleeve and b-nut. Reinstalled on aircraft.
- Filled engine with 10 quarts of Aeroshell 100 mineral oil.

The aircraft, airframe, aircraft engine, propeller, or appliance identified above was repaired and inspected in accordance with current maintenance rules 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 Work Order #2398-1RS.

Signed: Jennifer Haver (Jennifer Haver)

(Authorized Signature) for MMS Aviation;
FAA approved repair station certificate no UUMR721L;
24387 Airport Rd, Coshocton, OH 43812



24387 Airport Rd.
Coshocton, OH 43812

Registration:	N3639U	Date:	04/08/2019
Manufacturer:	Continental	Tach Time:	3369.0
Model:	O-470R	TSMOH:	0
Serial Number:	84706-3-R-4	Total Time:	3369.0

Operated engine to conduct operational performance and oil leak check following installation after overhaul. Engine performed to specifications. No leaks noted.

I certify that this engine has been inspected in accordance with an Annual Inspection, and is found to be in airworthy condition.

The aircraft, airframe, aircraft engine, propeller, or appliance identified above was repaired and inspected in accordance with current maintenance rules 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 Work Order #2398-3RS.

Signed: Timothy B. Obarow Timothy B. Obarow
(Authorized Signature) for MMS Aviation;

FAA approved repair station certificate no UUMR721L;
24387 Airport Rd, Coshocton, OH 43812

YEAR: **R** 10/09/2019 Tach: 39.5 TTAF 3408.5 N3639U
T Drained and refilled oil w/ 12 qts. Phillips 20w50 oil. Replace oil filter P/N CH48108-1, torqued and safetied.
D John Ferguson A&P# 3157547 *John Ferguson*

Date: 6/1/2020 Hours: TT 70.2 SMOH 70.2 Name: Marty J. King
 Make: Continental Model: O-470-R Certification #: 3787558 A&P/IA
 Tail #: N3639U Serial: 84706-3-R-4 Signature: *Marty J King*

Comments: Form ZA-LSR

TTAF 3439.2 TTE 3439.2
 Performed an annual inspection and service this date in accordance 14 CFR part 43 Appendix D using a Cessna 182 SM inspection checklist AD's checked through 2020-12. No new AD's apply. See AD compliance list for details.
 Compression test as follows: #1 79/80 #2 79/80 #3 79/80 #4 79/80 #5 79/80 #6 79/80
 Bore scoped all cylinders. All look valves look normal, cylinder walls are free from scoring.
 Cleaned, gapped and pressure tested spark plugs.
 Checked Carburetor fuel screen.
 Check magneto timing @ 22 degrees
 Replaced starter solenoid with new a Lamar STS-S12. Installed new ACS starter diode 16050-2. 8130-3 forms in aircraft records.
 Installed a new starter motor PN PL13459 SN 1901705 from Aerospace Components, LLC. See 8130-3 in aircraft records
 Oil changed with 12 qts of Phillips 20W50 XC engine oil. We took an oil sample for Blackstone Labs for analysis. The Report is in the aircraft records. Cut filter open no contamination was found.
 Inspected the exhaust system including verifying the muffler cone was still in place and whole.
 Moved several exhaust clamps that were leaking at the joints.
 Engine test run for leaks, none found.

I certify that this engine has been inspected on 6/1/2020 in accordance with an annual inspection using 14 CFR Part 43 Appendix D and was found to be in an Airworthy condition.
 SIGNATURE *Marty J King* 3787558/A&P/IA
 Marty J King

King Aero Aviation Services 1205 CR 6 West, Bldg 2B Elkhart, IN 46514 EKM 689 North SR25, Bldg1A, Rochester, IN 46975 END

VI 07/10/2020 Hobbs: 137.3 Tach: 123.6 TTAF: 3492.6 N3639U
 Drained and refilled oil w/ 12qts. Phillips 20w50 XC engine oil. Replaced oil filter p/n CH48108-1, torqued and safetied.
 DI John Ferguson A&P# 3157547 *John Ferguson*

08/15/2020 Hobbs: 195.2 Tach: 178.0 TTAF: 3547.0 N3639U
 Drained and refilled oil w/ 12qts. Phillips 20w50 XC engine oil. Replaced oil filter p/n CH48108-1, torqued and safetied.
 John Ferguson A&P# 3157547 *John Ferguson*

09/09/2020 Hobbs: 244.9 Tach: 224.8 TTAF: 3593.8 N3639U
 Drained and refilled oil w/ 12qts. Phillips 20w50 XC engine oil. Replaced oil filter p/n CH48108-1, torqued and safetied.
 John Ferguson A&P# 3157547 *John Ferguson*

03/10/21 265.3 Tach 3634.3 Drained oil and removed oil filter.
 AFTT Inspected oil filter for contamination. NO defects noted. Serviced oil with 12 quarts of Phillips 20w50. Replaced oil filter CH48108-1. Leak check good
 AS Adam Sipe AP365638) IA

Date: 08/01/2021 **Hours:** Actt: 3657.4 Tach: 288.4
Tail#: N3639U Engine SMOH: 288.4
Make: Continental **Model:** O-470R **S/N:** 84706-3-R-4

Note: Complied with AD's through this date.
C/W SEL -71-10 Flanged nut insp. N/A not installed
C/W SEL -79-03 Oil inspection (Connecting Rod piston pin bushing) No debris found.
C/W AD 96-12-22 Spin on oil filter nut torque. Due again @ 388.4 tach or annual.
Performed cylinder compression check with the following results: #1 75/80, #2 60/80, #3 65/80, #4 72/80, #5 65/80, #6 70/80. Removed spark plugs, cleaned and gapped. Adjusted Magneto timing to factory setting. Borescoped all cylinders. Removed R/H & L/H Exhaust at slip joints and re-secured due to small leaks.
I Certify this engine has been inspected in accordance with a 100 hr inspection and was determined to be in airworthy condition.

Name: Russell Scott
Co: Scotty A.I.R.

Cert: 3401594
Sign: R.W.Scott

Date: 08/01/2021 **Hours:** Actt: 3657.4 Tach: 288.4
Tail#: N3639U Engine SMOH: 288.4
Make: Continental **Model:** O-470R **S/N:** 84706-3-R-4

Drained oil, replaced oil filter P/N: CH48108-1 and serviced engine with 11 qts Aeroshell 15W-50 oil. Ran engine and found no leaks.
Russell Scott A&P 3401594 I.A. R.W.Scott

03/18/2023 W/O: 23-1015 N3639U Tach: 288.8
C182F Continental O-470R McCauley 2A34C50-NP
S/N: 18255039 S/N: 84706-3-R-4 S/N: 723671
TTAF: 3657.8 TSMOH: 288.8 PROP TSMOH: 384.7



100 HR inspection complied with referencing FAR 43 App. D, ICA's, & Continental M/M's. Drained hot oil; removed filter, opened, & inspected filter element (no contamination found); installed new filter P/N: AA48108-2; serviced engine with 11 quarts Phillips 66XC Victory 100AW. Replaced Bracket air intake filter P/N: BA-8103-1. Complied with all required engine lubrication; removed & inspected exhaust system; cleaned, inspected, checked gap, & ops checked spark plugs; inspected & ops checked ignition leads; & checked magneto timing.

500 HR Magneto inspection DUE @ 500.0 Tach Time

Cylinder Compression Checks (hot engine): #1: 76/80 #2: 76/80 #3: 77/80 #4: 75/80 #5: 78/80 #6: 78/80

Airworthiness Directives checked through Biweekly 2023-06
NO AD'S APPLY TO THIS ENGINE

Engine run & ops checks found no appreciable leaks or discrepancies. I certify this engine is found to be in an airworthy condition at this time and is returned to service.

Tyson Mauldin 3507435 A&P

04/22/2024 W/O: 24-1077 N3639U Tach: 301.5
Cessna 182 F Continental O-470-R McCauley 2A34C50-NP
S/N: 18255039 S/N: 84706-3-R S/N: 723671
TTAF: 3670.5 TSMOH: 301.5 TSMOH: 397.4



100 HOUR inspection complied with referencing FAR 43 App. D & Continental M/M's. Drained oil, removed filter & inspected element (no contamination), installed new filter P/N: AA48108-2, & serviced with 8 quarts of Phillips 66 20W50 Victory. Complied with required engine lubrication's; inspected exhaust system; cleaned, inspected, & ops checked spark plugs; inspected & ops checked ignition leads; checked magneto timing; washed engine with dry solvent. Replaced intake filter P/N: BA-8103-1, adjusted idle speed/mixture, & adjusted induction air box door to accutate to the full closed position. 500 HR Magneto Inspection Due @ 500.0 Tach Time

Cylinder Compression Checks (hot engine): #1: 70/80 #2: 70/80 #3: 72/80 #4: 73/80 #5: 74/80 #6: 74/80
Master Orifice: 48 PSI

Airworthiness Directives checked & complied with through Biweekly 2024-08

23-17-04 via Stratus Tools Technologies SB-001 Rev C. NEXT DUE 401.5 Tach Time or at next oil filter change. Engine run & ops checks satisfactory. I certify this engine is found to be in an airworthy condition at this time & is returned to service.

Tyson Mauldin 3507435 A&P IA