

# ENGINE MAINTENANCE RECORDS

Log No. \_\_\_\_\_

Aircraft Registration No. N9986H / N5497N

Engine Manufacturer Continental

Model O-470-U

Serial No. 273235-R

Date installed on aircraft \_\_\_\_\_

Time Between Overhauls (TBO) \_\_\_\_\_ Hours

If used on multi-engine aircraft:

- |                                |                               |
|--------------------------------|-------------------------------|
| <input type="checkbox"/> Right | <input type="checkbox"/> Left |
| <input type="checkbox"/> Front | <input type="checkbox"/> Rear |



(All applicable information must be filled in)

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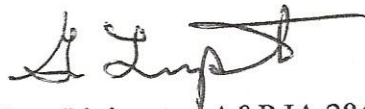
FAX: (631) 765-9359

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9 Aug 2023  
Tach Time: 5500.9  
TSMOH: 218.5  
Hobbs: 3402.3

Make: Continental  
Model: O-470U  
Serial #273235-R

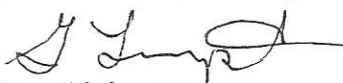
Aircraft flown for one hour to perform accurate compression test; Compression test results. #1 78/80, #2 76/80, #3 76/80, #4 70/80, #5 78/80, #6 77/80. Master orifice number was 58psi. Oil and filter changed. Filter cut for inspection, no defects. Phillips 20W50 and Tempest 48109. Engine run for 1k & ops ck's. Aircraft returned to service



Greg Livingston A&P IA 2849760  
Chief Of Maintenance Azure Flight Support


SUB-TOTALS this page

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DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
TOTALS brought forward from previous page				
<div data-bbox="344 394 600 546">27 June 2023 Tach Time: 5489.5 Hobbs: 3391.0 TSMOH: 207.3</div> <div data-bbox="1109 388 1367 497">Make: Continental Model: O-470U Serial #273235-R</div> <div data-bbox="347 569 1362 659">Past times carried forward incorrectly. Correct times are as stated in this entry. Logbooks, Flight entries, and maintenance records used to qualify times.</div> <div data-bbox="816 653 1177 798"> Greg Livingston AP 2849760 IA</div> <div data-bbox="157 827 586 875">AS OF 2 FEB 2023</div>				



9 Sept. 2022

Tach Time: ~~5274.1~~

Hobbs: ~~3389.6~~

5274.1

3389.6

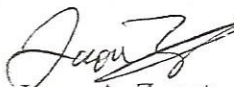
Make: Cessna

Model: 182R

Serial #18267760

273235R

Removed and replaced R/H MLG tire due to wear. Removed and replaced oil pressure switch due to leak. A/C ran post maintenance with no issues noted at this time.

  
Jason A. Zwart  
A&P 3736574

2 Feb 2023

Tach Time: ~~173.9~~

TSMOH: 207.3

Hobbs

5489.5

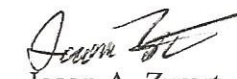
3391.0

Make: Continental

Model: O-470U

Serial #273235-R


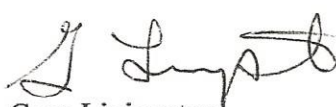

Engine ran to achieve operating temperature, compression test performed. #1 65/80, #2 61/80, #3 60/80, #4 62/80, #5 61/80, #6 57/80. Spark plugs cleaned, gapped, and tested. Mag timing checked. Engine run for 1k & ops ck's. I certify that this engine has been inspected IAW an Annual Inspection per manufactures data and is determined to be in airworthy condition. All AD's are current/complied with per IA Approach updated 2 Feb 2023.

  
Jason A. Zwart  
A&P IA 3736574

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Page No. \_\_\_\_\_

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED — SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
TOTALS brought forward from previous page				
4 March 2022				Make: Continental
Tach Time: <del>3339.8</del>				Model: O-470U
Hobbs: 1 <del>000</del>				Serial #273235-R
<p>Engine ran to achieve operating temperature, compression test performed. #1 67/80, #2 68/80, #3 77/80, #4 67/80, #5 73/80, #6 65/80. Spark plugs cleaned, gapped, and tested. 1 plug replaced. Mag timing checked. Clamp replaced on balance tube. Engine run for 1k &amp; ops ck's. I certify that this engine has been inspected IAW an Annual Inspection per manufactures data and is determined to be in airworthy condition. All AD's are current/complied with per IA Approach updated 4 March 2022.</p> <p><i>Oil &amp; Filter changed at this inspection</i></p> <p><i>[Signature]</i></p> <p><i>[Signature]</i> Jason A. Zwart A&amp;P IA 3736574</p>				

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
14 Apr 2020				<p>Make: Continental Model: O-470U Serial #273235-R</p> <p>Oil and filter changed. Serviced with 11 qts Phillips 20W50. Engine run for 1k &amp; ops ck's. Old filter cut for wear metal inspection, non-noted. Alternator belt tightened.</p> <p> Greg Livingston A&amp;P IA 2849760</p>
13 Jan 2021				<p>Make: Continental Model: O-470U Serial #273235-R</p> <p>Oil and filter changed. Serviced with Philips 20W50 oil and new filter installed. Oil filter cut and inspected for wear metals, no defects found. Engine run for 1k &amp; ops ck's.</p> <p> Greg Livingston</p>
1 March 2021				<p>Make: Continental Model: O-470U Serial #273235-R</p> <p>Engine ran to achieve operating temperature, compression test performed. #1 74/80, #2 74/80, #3 73/80, #4 72/80, #5 74, #6 74/80. Spark plugs cleaned, gapped, and tested. 1 plug replaced. Mag timing checked. Clamp replaced on balance tube. Engine run for 1k &amp; ops ck's. I certify that this engine has been inspected IAW an Annual Inspection per manufactures data and is determined to be in airworthy condition. All AD's are current/complied with per IA Approach updated 1 March 2021.</p> <p> Greg Livingston A&amp;P IA 2849760</p>



A Lupt




**Date: 11/18/2019**  
**Tach Time: 5071.1**  
**Hobbs Time: 3187.4**

**Work Performed:** Adjusted oil pressure regulator. Adjusted throttle control arm, throttle control rod end, and rod end bolt to achieve full throttle control travel. Reseated dipstick retaining clip. Properly seated and positioned dipstick tube. Applied touch up paint to crankcase breather pressed in fitting. Installed serviceable oil filler cap. Adjusted governor maximum rpm stop. Performed ground operational and flight checks. ---END---

END----

*Dary Burdick*

[illegible]

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK												
1 Dec 2018				<p>Make: Continental Model: O-470U Serial #273235-R</p> <p>Plugs cleaned and gapped. Mag timing checked. Engine run for 1k &amp; ops ck's. I certify that this engine has been inspected IAW an Annual Inspection per manufactures data and is determined to be in airworthy condition. All AD's are current/complied with per IA Approach updated 1 Dec 2018.</p> <p><i>Greg Livingston</i> Greg Livingston A&amp;P # 2510740</p>												
12/5/18				<p>HOBBS 3,132.10 Oil + filter changed. Serviced w/Aeroshell 20W50. Engine run for 1k topsecks. oil filter cut for wear metal inspection. non-note</p> <p><i>[Signature]</i> © W. V. R. P.</p>												
<table border="1"> <thead> <tr> <th>DATE:</th> <th>ENGINE MODEL:</th> <th>ENGINE S/N:</th> <th>ENGINE T.T./S.M.O.H.</th> </tr> </thead> <tbody> <tr> <td>August 28, 2019</td> <td>O470U18B</td> <td>273235</td> <td>5066.5/0.0</td> </tr> </tbody> </table> <p align="center">   <b>CONTINENTAL SERVICES</b>            Fairhope, Alabama         </p> <p>This engine was disassembled, inspected, and assembled in accordance with CMI overhaul manual X30586 Revision Date October 2013 and CMI Procedures Manual M-0 Revision Date September 2018 using new seals, gaskets and "O" rings. New connecting rod bolts, nuts and bearings and crankshaft bolts and bearings installed. Applicable Service Bulletins and Airworthiness Directives have been complied with.</p> <p>This engine has been tested in accordance with procedures listed in overhaul manual X30586 and has been accepted. I certify that this engine has been OVERHAULED as indicated above and was determined to be airworthy with respect to the work performed. Details of this repair are on record at this facility. Work Order ES-9006.</p> <p>Complied with: CSB05-8D, M87-23, M93-4, M93-8, MSB94-8D, MSB96-10B, SB04-10, SB07-1, SB08-12, SB653, SB658, SB97-11, SID96-6.</p> <table border="1"> <tr> <td>MECHANIC: <i>Brian Stone</i></td> <td>9CER853B</td> <td>AUTHORIZATION: <i>Charles B. [Signature]</i></td> <td>9CER853B</td> </tr> </table>					DATE:	ENGINE MODEL:	ENGINE S/N:	ENGINE T.T./S.M.O.H.	August 28, 2019	O470U18B	273235	5066.5/0.0	MECHANIC: <i>Brian Stone</i>	9CER853B	AUTHORIZATION: <i>Charles B. [Signature]</i>	9CER853B
DATE:	ENGINE MODEL:	ENGINE S/N:	ENGINE T.T./S.M.O.H.													
August 28, 2019	O470U18B	273235	5066.5/0.0													
MECHANIC: <i>Brian Stone</i>	9CER853B	AUTHORIZATION: <i>Charles B. [Signature]</i>	9CER853B													



8 Jan 2018  
Tach Time: 4886.4  
Hobbs: 2971.0

Make: Continental  
Model: O-470U  
Serial #273235-R


Oil and filter changed. Serviced with Aeroshell 15W50 oil and new filter installed. Oil filter cut and inspected for wear metals, no defects found. Crush seal on oil pan quick drain replaced. O-ring inside oil dip stick replaced. Rubber hose connecting oil dip stick replaced. Engine run for 1k & ops ck's.

  
Greg Livingston  
A&P IA 2849760

4 May 2018  
Tach Time: 4911.1  
Hobbs: 3000.0

Make: Continental  
Model: O-470U  
Serial #273235-R

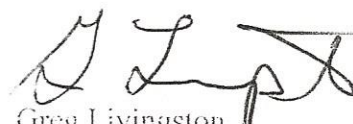
Oil and filter changed. Serviced with Aeroshell 15W50. Engine run for 1k & ops ck's. Old filter cut for wear metal inspection, non-noted.

  
Greg Livingston  
A&P IA 2849760

July 27 2018  
Tach Time: 4949.9  
Hobbs: 304.61

Make: Continental  
Model: O-470U  
Serial #273235-R

Oil and filter changed. Serviced with Philips 20W50. Engine run for 1k & ops ck's. Old filter cut for wear metal inspection, non-noted.

  
Greg Livingston  
A&P IA 2849760

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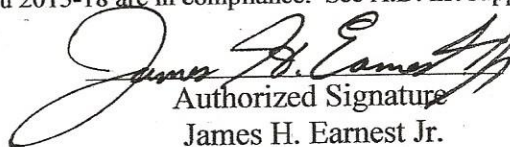
TOTAL  
TIME  
IN  
SERVICETOTAL  
TIME  
SINCE  
OVERHAULTACH OR  
RECORDING  
METER  
TIMEDESCRIPTION OF WORK PERFORMED—  
SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK

TOTALS brought forward from previous page

**ZEPHYR AIRCRAFT ENGINES INC.**39320 B, Avenue. Zephyrhills FL. 33542  
(813) 788-3305. FAX (813) 788-4412W.O. No. 215106Mfg. ContinentalSerial No. 273235-RDated September 17, 2015Model O-470-UEngine Total Time. 2396.5Time since Major Overhaul. 0.00

This is to certify that the engine described hereafter has been overhauled to manufacturer's new parts limits. The Engine was disassembled, cleaned, and inspected in accordance with Manufacturer's instructions. All steel parts magnafluxed, reassembled and test run in accordance with manufacturer's current overhaul manual and in accordance with current Federal Aviation Regulations and is approved for return to service. Pertinent details of these repairs are on file at this agency under the W.O.#215106 listed above. All applicable Airworthiness Directives thru 2015-18 are in compliance. See A.D. list supplied.

F.A.A. APPROVED REPAIR STATION #VI4R397M

  
 Authorized Signature  
 James H. Earnest Jr.

Components, Accessories, & Related Parts supplied or installed.				Overhauled	Repaired	Not Repaired
Fuel Servo/ Carburetor	P/N	10-5192	S/N CO-3-2618			X
Left Magneto	P/N	BL-349350-4	S/N F15DA157R	X		
Right Magneto	P/N	BL-349350-5	S/N F15CA179R	X		
Starter Motor	P/N	646275	S/N 0-048978			X
Oil Cooler	P/N	639171	S/N 1088	X		
Spark Plugs	P/N	URHB32E	Ignition Harness	P/N	10-423684-1	
Oil Filter	P/N	CH48109-1				

N5497N Date: 04/05/2016 TACH: 4758 ACTT: 4035

Removed and replaced Continental Engine S/N: 273235-R.  
 Model: O-470-U. Engine TT: 2396.5  
 Time since Major Overhaul: 0.00.

Ran engine for leaks and operational checks. I certify  
 this engine has been determined to be in  
 airworthy condition.

Dean Markis AP23884791A

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ENGINE BOOK 1

OVHRL INSTALLED AT



*The Standard*

ENGINE LOG

484-3771

January 12, 2015



M/N U-4/U-U (18B) 430 BHP @ 4,400 RPM  
S/N 273235R

ENGINE LIST 4.0 HRS

### ENGINE LOGBOOK ENTRY

Remove customer's existing engine - Continental O-470-U SN 273482-R at hobs time 3,434.8 tach 2,382.3 and install customer's field overhauled engine O-470-U (18B) serial number 273235R in Cessna Skylane C-182-R; airframe SN 182-68163. Engine overhauled by J. Sanchez 3352153 A&P on 12 January 2015

Install on newly overhauled engine: Alternator model AL24-F60, SN 4F-130801, New Rapco 216CW vacuum pump SN B31798; Marvel-Schebler / Facet carburetor PN 105284, (MA-4-5) SN C-04160-FFU; & starter 646275 SN:048978.

Timed two newly overhauled Slick 6210 magnetos, sn 88110278 & 8810290 (see engine field overhaul entry) to 24°. These magnetos overhauled by Donald S. Downs A&P 2776615 on 14 Nov 2014 as supplied by J. Sanchez A&P 3352153, installed twelve (12) new spark plugs Champion AF41(608)-10281 & a new ignition harness Champion # M-2381.

Serviced engine with 12 quarts of Aeroshell mineral oil SAE-50 weight. Installed new Champion oil filter 48109-1. Test ran the engine on the 2.0 hours on the ground, conducted four high speed taxis and then removed filter, drained all oil and then checked for metal particles - none found. Installed new oil filter, safety wired oil filter assembly. Serviced engine with new 50 weight mineral oil and installed new 48109-1 filter. Ran engine up a second time - no leaks observed.

All work above was accomplished in accordance with the appropriate sections of FAA AC 43.13-1B2B, & the Continental overhaul and operator's manual X30022A & X30586A.

I have personally inspected this engine installation and approve it for return to service with respect to the work performed.

  
George Lee 1995861 A&P/A



RECORDING  
TACH  
TIME  
DATE  
YEAR

N9986H Cessna C-182R  
Model Number: C-182R  
Aircraft Type Certificate No. TC-3A13

Continental Engine  
Engine Type Certificate No. TC-E-273-Rev 37

15 Jan. 2015  
Serial Number: 182 68163

Aircraft Hobbs 3,436.8 hrs  
Aircraft Tach 2,384.1 hrs

H9866N R281 HOBBS 3,436.8 hrs  
REMOVED ENGINE FROM AIRCRAFT  
Nashville, TN  
AP 227998  
H 171 HOBBS  
5,963.2  
5/5/20

RE  
DA  
20  
EA

Engine Type

49864

[illegible]