

# ENGINE MAINTENANCE RECORDS

			Log No.	-
Aircraft Registration I	No. <u>N9986</u>	H/NG	7497N	
Engine Manufacturer	Continenta.			
Model 0 - 4				
Serial No. <u>273</u>	3235-R			
Date installed on airc	craft			
Time Between Overh	hauls (TBO)	Hours		
	on multi-engine aircraft:		3 .	
	ht ☐ Left nt ☐ Rear			



(All applicable information must be filled in)

## AEROTECH PUBLICATIONS INC.

P.O. Box 1359 / Southold, NY 11971-0965 (631) 765-9375

1-800-235-6444

FAX: (631) 765-9359

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 lk & ops ck's. Aircraft returned to service

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

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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
				` .
				M. L. Continental

27 June 2023

Tach Time: 5489.5

Hobbs: 3391.0 TSMOH: 207.3 Make: Continental Model: O-470U

Serial #273235-R

Past times carried forward incorrectly. Correct times are as stated in this entry. Logbooks, Flight entries, and maintenance records used to qualify times.

> Greg Livingston AP 2849760 IA

AS OF 2 FEB 2023

9 Sept. 2022 Tach Time: \$5274.1 \$\frac{1}{3}\$ Make: Cessna Model: 182R Serial #18267760

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.

> ason A. Zwart A&P 3736574

2 Feb 2023

Tach Time: 175.9 '5 489, 5

TSMOH: 207.3

Hobbs

Make: Continental Model: O-470U

Serial #273235-R

3391.0

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 lk & 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.

A&P IA 3736574

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHALL	TACH DR RECORDING NETER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
			T	TOTALS brought forward from previous page
	4 March Tach Tir Hobbs: 1	ne: <del>3939.8</del>	DS216.	Make: Continental Model: O-470U Serial #273235-R
	68/80, # plug rep ops ck's	3 77/80, # laced. Ma .1 certify t	4 67/80, #5 7. g timing chechat this engine	g temperature, compression test performed. #1 67/80, #2 73/80, #6 65/80. Spark plugs cleaned, gapped, and tested. 1 cked. Clamp replaced on balance tube. Engine run for lk & ne has been inspected IAW an Annual Inspection per mined to be in airworthy condition. All AD's are Approach updated 4 March 2022.  Approach updated 4 March 2022.  Jason A. Zwart A&P IA 3736574

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DESCRIPTION OF WORK PERFORMED-TACH OR RECORDING TOTAL SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK TIME TIME DATE SINCE WEN. Make: Continental 14 Apr 2020 Model: 0-470U Tach Time: 5091 4 Serial #273235-R Hobbs: 3214.8 Oil and filter changed. Serviced with 11 qts Phillips 20W50. Engine run for lk & ops ek's. Old filter cut for wear metal inspection, non-noted. Alternator belt tightened. Gree Livingston \* A-P (A 2849760 Jan 2021
Tach Time: 66.2 5 134.6
Hobbs: 3258 0 Make: Continental Model: O-470U Serial #273235-R 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 lk & ops ck's. 1 March 2021
Tach Time: 3261.7 5 / 38 . 3 Make: Continental Model: O-470U Hobbs: 68 3261. 7 Serial #273235-R 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 lk & 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

Greg Livingston

Greg Livingston A&P IA 2849760

current/complied with per IA Approach updated 1 March 2021.

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
	1 Oct 2019 Tach Time Hobbs: 31	e: 5066.6	TTSMO	Make: Continental  Model: O-470U  H 0.0 Serial #273235-R
	repainted. certify that data and is	Rubber se t this engine determine	als replace ne has beer	atal motors and reinstalled. Engine baffling stripped and d. Mineral oil installed. Engine run for lk & ops ck's. I inspected IAW an Annual Inspection per manufactures airworthy condition. All AD's are current/complied with 2019.
				Greg Livingston A&P IA 2849760
Model: Serial No	Continental M O470U18 o.: 273235-F	nc., 8600 Cour	ty Road 32, Fa	Date: 11/18/2019 Tach Time: 5071.1 Hobbs Time: 3187.4  NTINENTAL MOTORS, INC. irhope, AL 36532 251-990-5080 FAA Repair Station No. 9CER853B  Reen inspected in accordance with current regulations of the Federal Aviation
Model: Continuit	O470U18 o.: 273235-F mental Motors, I k performed tration and fo erformed: A ve full throttle paint to cran rformed grounded gred Signature	as described und to be in djusted oil percontrol trave kcase breath and operation	below has be airworthy corressure reguled. Reseated er pressed in all and flight	Tach Time: 5071.1 Hobbs Time: 3187.4  NTINENTAL MOTORS, INC. irhope, AL 36532 251-990-5080 FAA Repair Station No. 9CER853B  eeen inspected in accordance with current regulations of the Federal Aviation indition with respect to the work performed.  lator. Adjusted throttle control arm, throttle control rod end, and rod end bolt dipstick retaining clip. Properly seated and positioned dipstick tube. Applied fitting. Installed serviceable oil filler cap. Adjusted governor maximum rpm checks.—END——
Model:  Continuit  Continuit  The work  Administ  Work Perior achieve to achieve the achie	O470U18 o.: 273235-F mental Motors, I k performed tration and fo erformed: A ve full throttle paint to cran rformed grounded gred Signature	as described und to be in djusted oil percontrol trave kcase breath and operation	below has be airworthy corressure reguled. Reseated er pressed in all and flight	Tach Time: 5071.1 Hobbs Time: 3187.4 NTINENTAL MOTORS, INC. irhope, AL 36532 251-990-5080 FAA Repair Station No. 9CER853B ween inspected in accordance with current regulations of the Federal Aviation andition with respect to the work performed.  lator. Adjusted throttle control arm, throttle control rod end, and rod end bolt dipstick retaining clip. Properly seated and positioned dipstick tube. Applied fitting. Installed serviceable oil filler cap. Adjusted governor maximum rpm checks.——END——  853B:
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Model: Serial No Contin The work Administ Work Peto achiev touch up stop. Per	O470U18 o.: 273235-F mental Motors, I k performed tration and fo erformed: A ve full throttle paint to cran rformed grounded gred Signature	as described und to be in djusted oil percontrol trave kcase breath and operation	below has be airworthy corressure reguled. Reseated er pressed in al and flight tation 9CER	Tach Time: 5071.1 Hobbs Time: 3187.4 NTINENTAL MOTORS, INC. irhope, AL 36532 251-990-5080 FAA Repair Station No. 9CER853B ween inspected in accordance with current regulations of the Federal Aviation andition with respect to the work performed.  lator. Adjusted throttle control arm, throttle control rod end, and rod end bolt dipstick retaining clip. Properly seated and positioned dipstick tube. Applied fitting. Installed serviceable oil filler cap. Adjusted governor maximum rpm checks.——END——  853B:
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DATE

TOTAL TIME IN SERVICE TOTAL TIME SINCE OVERHAUI TACH OR RECORDING METER TIME

DESCRIPTION OF WORK PERFORMED—
SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK

1 Dec 2018

Tach Time: 50162

Hobbs: 3123.6

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

Plugs cleaned and gapped. Mag timing checked. Engine run for lk & 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.

Greg Livingston

HOBRS 3,132.10, 0:1+filter changed. Serviced

w/Aeroshell 200050. Engine run for 1x topschis.

sidfilter cut for year metal inspection non-noted

Owners Pr

DATE: ENGINE MODEL: ENGINE S/N: ENGINE T.T./ S.M.O.H.
August 28, 2019 O470U18B 273235 5066.5/0.0

#### CONTINENTAL SERVICES

#### Fairhope, Alabama

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.

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.

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.

MECHANIC: B.

9CER853B AUTHORIZATION:

9CER853B

I				ıK
	8 Jan 2018 Tach Time: 4886.4 Hobbs: 2971.0	N	Take: Continental Model: O-470U erial #273235-R	
		o defects found. Cru	sh seal on oil pan quick	- A
	4 May 2018 Tach Time: 4911.1 Hobbs: 300.0 Oil and filter changed. Serviced wi	th Agrashell 15W50	Make: Continental Model: O-470U Serial #273235-R Engine run for lk & ops ck's.	
	Old filter cut for wear metal inspec	Greg Livingston A&P IA 2849760	J.	
	July 27 2018  Tach Time: 4949.9  Hobbs: 304.61, 2046.	9 8	Make: Centinental Model: O-470U Serial #273235-R	1
	Oil and filter changed. Serviced with Old filter cut for wear metal inspecti	n Philips 20W50. Engon. non-noted.	gine run for lk & ops ek's.	3 <del></del>
		Greg Livingston A&P IA 2849760	X	
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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

#### Late Aircraft Repair

#### 4-7-2017 Tach 4827.7 SMOH 69.7 TTE 2466.2 N5497N Continental O-470U SN 273235R

Perform 100hr/annual inspection IAW C182 MM. Compression as follows: 1-70, 2-65, 3-74, 4-76, 5-72, 6-70. Drained oil, removed filter, cut open-no metal noted. Install new CH48109-1 filter and service oil tank with 12 qt Aeroshell W100 oil. Remove exhaust to paint mount and reinstall exhaust using all new gaskets. Check mag timing, clean and gapped plugs. Replace induction air filter BA6108 with new. Cleaned engine, lubed controls, ground run and approved for return to service.

I certify that this engine has been inspected in accordance with a 100hr/Annual inspection and is found to be in an Airworthy condition at this time.

Kevin Late AP31123491A

Ku Lot

7 Nov 2017

Tach Time: 4866.3

Hobbs: 2949.9

Make: Continental Model: O-470U

Serial #273235-R

Engine was initially inspected for a pre-buy. Cylinder #2 and #3 had low compression. All cylinders were removed and replaced with new Superior Air Parts #SA47006L-A20P, Work order #1330709. Service letter L05-09 B was used to fit ring gaps. Lifters were bleed down and dry tappet clearance checked. Interior of engine visually inspected. Lifter body's and cam lobes showed insignificant wear. Plugs cleaned and gapped. Mag timing checked. Oil and filter changed. Serviced with mineral oil for break-in of new rings. Engine run for lk & 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 ATP Navigator updated 7 Nov 2017.

Greg Livingston A&P IA 2849760

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TOTAL TIME IN SERVICE TOTAL TME SMCS SMETHALL TACH DA FELCEDING METER

### DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK

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9/11/15

#### ZEPHYR AIRCRAFT ENGINES INC.

39320 B, Avenue. Zephyrhills FL. 33542 (8 13) 788-3305. FAX (813) 788-4412

W.O. No. 215106 Mfg. Continental Serial No. 273235-R Dated September 17, 2015

Model O-470-U

Engine Total Time. 2396.5

Time 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, Accesso	ories, &	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	100	
Starter Motor	P/N	646275	S/N	0-048978		0 58	X
Oil Cooler	P/N	639171	S/N	1088	X		121
Spark Plugs	P/N	URHB32E	Igni	tion Harness	P/N	10-42368	4-1
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 AP2388479IA

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ENGINE BOOK 1

OVHRL INSTALLED AT



The Standard

All work completed in accordance with current manufacturer TCM documents: X30097 maintenance manual, X305§7A parts catalog and X30586A overhaul manual and AC 43.13-1B. All documentation and overhaul/felated paperwork supplied to customer. I have personally assembled and tested this manual X30587A. Engine Crankshaft Mains Std, Rods Std, Camshaft, oil pump gears, lifters and all other steel moving components magnetic particle inspected & certified by D & S Engineering under D&S WO #13876 and as listed on attached 8130. Crank case & new limits steel cylinders with pistons, rings, piston pins, rocker shaft, valves, springs, push rods, keepers and gaskets overhauled by Airmark Donald S Downs A&P 2776615 - separate log book entry provided for magnetos. All Engine components personally inspected dimensionally, visually and functionally prior to reassembly. Engine Magnetos 6210 SN 88110290 & 6210 88110278 both overhauled with 500 hr service instructions by This engine was completely disassembled, cleaned and inspected in accordance with TCM overhaul reassembled. All applicable engine and magneto ADs are in compliance - see separate list provided Engine placed on test stand, new oil filter installed, filled with 9 Qts of mineral oil and spun on starter Overhaul WO #44246. New bearings, springs, consumables and gaskets from Aircraft General Supply 0.0 hrs January 12, 2015 TSMOH: engine-and-find it to be airworthy. This engine therefore approved for return to service. J Sanchez 3352153 A&P Engine Serial Number: 273235R Continental O-470-U (18B) MAF DATE YEAR

WIN 0-470-0 (188) 230 Bnp @ 2,400 rpm S/N 273235R

# ENGINE LOGBOOK ENTRY

Remove customer's existing engine – Continental O-470-U SN 273482-R at hobbs 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-

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 taxi's 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

George Lee ()A&P/IA

work performed

CHURLI ALIBERT V.0 1110

2R 15.Jan.2015 Ro. TC-3A13 Serial Number: 182 68163	N9986H Cessna C-182R  Model Number: C-182R  Aircraft Type Certificate No. TC-3A13	VEAR 20 DATE	RECORDI
			TIME
			0.0000
2396,5 TSMOH 14,4 REMOVED EVATIVE FROM CESSION 182R NOGRILL	1828 N 9987LL		A Control of the Cont
Nath Douts AP2719398			

