

THE **adlog**<sup>TM</sup>

**AIRCRAFT  
MAINTENANCE  
RECORDKEEPING  
SYSTEM**

**ENGINE  
MAINTENANCE  
RECORDS**



# ENGINE MAINTENANCE RECORDS

Log No.

Aircraft Registration No. 1134

Engine Manufacturer CONTINENTAL

Model IO 550 N

Serial No. 917350

Date installed on aircraft 8-26-19



**Powermaster Aircraft Engines**  
**9027 S. Airport Way**  
**Tulsa OK 74132**  
**918-299-0269**  
**FAA CRS P46R287Y**

**Engine Overhaul Record**

Date- 8-12-2019  
 Engine Make- Continental  
 Model- IO-550N  
 Serial Number- 917350  
 Engine Total Time- 1814.5  
 TSMOH- "0"

PAE Work Order 19-0812

This entry certifies this engine has been overhauled to manufactures new part limits. This engine has been disassembled, cleaned, inspected and overhauled in accordance with CMI Overhaul manual M16. The following Accessories were overhauled or replaced new at time of overhaul unless noted:

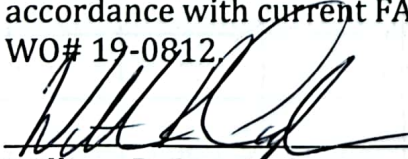
Left Magneto-	Surefly	SIM6C	337 Required
Right Magneto-	BL-500556-1	D19EA285R	CMI
Fuel Pump-	655921-3A1	B04HA306	GPFM-19-376
Fuel Controller-	653353-8A1	A04HA274	GPFM-18-376
Manifold Valve-	646433-9A1P	C04HA290	GPFM-19-376
Nozzles-	652312-12E	NA	GPFM-19-376
Oil Cooler-	654585	E06-4772-348	Eaton-111870
Governor-	C290D3R/T3	SN-041114	AAOFOK-34133

Internal Steel certified by Aircraft Specialties on WO#-255061.  
 Crankcase Overhauled and Certified by Divco Inc on WO# WDC-124725.  
 Camshaft PN-654084 installed.  
 New CMI Cylinders Installed, PN658595A1, SN-AC19AA786, 959, 961, 964, 978, 992.

AD's Complied With:  
 AD-93-16-15 Installed fuel pump drive coupling PN-653359.  
 AD-10-11-04 Installed 6 each 653877 and 6 each 653888, Hydraulic lifter assemblies.

Installed New Camshaft Gear PN-656818 per MSB05-8B.  
 Installed New Crankshaft Gear PN-656991.

The engine and accessories listed above have been inspected and overhauled in accordance with current FAA regulations and were found airworthy for return to service.  
 WO# 19-0812

  
 William R. Cunningham  
 Powermaster Aircraft Engines  
 FAA CRS P46R287Y

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
<b>TOTALS</b> brought forward from previous page				

8/26/19 N218X CONTINENTAL IO-550-N S/N 917350 HOBBS 1814.5 TSMOH 0.0

INSTALLED ENGINE AFTER OVERHAUL BY POWERMASTER AIRCRAFT ENGINES, W/O # 19-0812. INSTALLED NEW ENGINE VIBRATION MOUNTS, ALL FIREWALL FORWARD FUEL HOSES REPLACED AT THIS TIME. SERVICED ENGINE WITH PHILLIPS 20W50 TYPE "M" OIL. GROUND RUN, IDLE SPEED AND MIXTURE SET. LEAK CHECK OK. AD'S THROUGH 2019-17 CHECKED FOR COMPLIANCE. W/O # 12212

I Certify That This Engine Has Been  
 Inspected in Accordance With A N ANNUAL  
 Inspection And Determined To Be In An Airworthy Condition  
 Matthew G Showalter AP3542093IA

1194.2

09/03/2019 N218X TCM IO-550-N SERIAL #917350 1826.4 TTE 11.9 SMOH

OIL DRAINED. REMOVED AND INSPECTED FILTER. UNIT DISCARDED. SERVICED WITH PHILLIPS 20W50 TYPE 'M' AND CH48108-1. GROUND RUN UP OK.

*Matthew G Showalter AP3542093IA*

Matthew G Showalter AP 3542093 IA


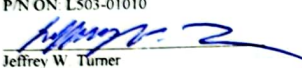
W/O #12239

11/6/19 N218X TCM IO-550-N S/N 917350 1844.3 HOBBS & TT TSMOH 29.8  
 OIL AND FILTER CHANGED. FILTER WAS INSPECTED FOR CONTAMINATION, NONE FOUND. SERVICED WITH PHILLIPS 20W50XC AND CH48109-1 FILTER. REMOVED AIR OIL SEPARATOR AND RETURNED BREATHER SYSTEM TO FACTORY CONFIGURATION. NO WEIGHT AND BALANCE CHANGE. REPLACED OIL DRAIN VALVE TIP O-RING P/N MS28775-011. WASH ENGINE, GROUND RUN AND LEAK CHECK OK.

*Matthew G Showalter AP3542093IA*

W/O 12257

12-12-19	1219.8	Removed Concorde BATTERY RG 24-15M		
		Replaced with Concorde RG 24-15M <i>AP 33355501</i>		
			<b>SUB-TOTALS</b> this page	
			<b>TOTALS</b> -Carry forward to next page	

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
Modern Avionics & Maintenance, Inc Mansfield Lahm Regional Airport 2000 Harrington Memorial Road, Hangar #528 Mansfield, OH 44903 (440) 541-7059				
Engine Logbook Entry				
Date: 04/05/2020	Registration Number N218X	Aircraft Model Number Cirrus SR22	Aircraft Serial Number 1134	
Work Order: MAMI-2341	Engine Make: Continental	Engine Model Number: IO-550	Engine Serial Number: 917 350	
Total Airframe Time: 1879.4	Hour Recorder Time: 1879.4	Total Engine Time: 1879.4	Engine Time Since Major Overhaul: 51.3	
-Removed the LH magneto and replaced with a new Surefly SIM6C magneto. Internally time and timed to the engine. Performed engine runs to verify correct operation and that no leaks were detected at this time. All satisfactory with no defects noted at this time.				
P/N OFF: SIM6C S/N OFF: 6C-1419009				
P/N ON: SIM6C S/N ON: 6C-1120013				
-Installed a magneto filter on the right magneto. P/N ON: L503-01010				
				Mechanic: AP3371638IA

04/22/2020 N218X IO-550-N SERIAL #917350 HOBBS & TOTAL TIME:1882.9 SMOH:68.4

1236.2

OIL DRAINED. REMOVED AND INSPECTED FILTER. UNIT DISCARDED. SERVICED WITH PHILLIPS 20W50 X/C AND CH48108-1. C/W WITH HARTZELL ENGINE TECHNOLOGIES ALERT SERVICE BULLETIN 081 Rev. A. REMOVED ALTERNATOR. INSPECTED CASTELLATED HEX NUT. GAP BETWEEN NUT THRUST FACE AND THRUST WASHER LESS THAN .002. CENTER PUNCH MARK APPLIED. ALTERNATOR INSTALLED WITH NEW GASKET. NO FURTHER ACTION REQUIRED. GROUND RUN UP OK. W/O #12293

  
CHRISTOPHER A HOPKINS 2216069 IA

9/1/2020 N218X CONTINENTAL MOTORS IO-550-N S/N 917350 HOBBS & TT 1913.8 TSOH 99.1

COMPRESSION TEST RESULTS #1)70/80 #2)74/80 #3)71/80 #4)71/80 #5)75/80 #6)72/80. SPARK PLUGS CLEANED, GAPPED AND ROTATED. MAGNETO TO ENGINE TIMING CHECKED. INDUCTION ELEMENT SERVICED. AD'S THROUGH 2020-17 CHECKED FOR COMPLIANCE. GROUND RUN UP OK.

W/O 12324

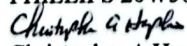
I CERTIFY THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION.

MATTHEW G SHOWLATER AP3542093IA



09/23/2020 N218X TCM IO-550-N S/N 917350 HOBBS & TT:1916.7 SMOH:102.2

OIL DRAINED. SAMPLE TAKEN. REMOVED AND INSPECTED FILTER. SERVICED WITH PHILLIPS 20W50 X/C AND CH48109-1. GROUND RUN UP OK.

  
Christopher A Hopkins 2216069 IA W/O #12320


SUB-TOTALS this page

TOTALS-Carry forward to next page

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
				<b>TOTALS</b> brought forward from previous page
				<p>03/11/2021 N218X TCM IO-550-N S/N 917350 HOBBS AND TT:1950 SMOH:135.5</p> <p>OIL DRAINED. SAMPLE TAKEN. REMOVED AND INSPECTED FILTER. UNIT DISCARDED. SERVICED WITH PHILLIPS 20W50 X/C AND CH48109-1. GROUND RUN UP OK.</p> <p><i>Christopher A Hopkins</i> Christopher A Hopkins 2216069 IA W/O #12370</p>
1290.1				
7-6-21	TACH = 1321.7			<p>DRAINED OIL, REMOVED INSPECTED FILTER</p> <p>SERVICED WITH PHILLIPS 20W50 AND NEW CH48109-1</p> <p>GROUND RUN OK - <i>A. J. B. #3335501</i></p>
				<p>10/01/2021 N218X CONTINENTAL MOTORS IO-550-N S/N 917350 HOBBS 2011.3 TSOH 196.6 TT 2011.3</p> <p>COMPRESSION TEST RESULTS #1)74/80 #2)72/80 #3)71/80 #4)75/80 #5)76/80 #6)72/80. SPARK PLUGS CLEANED AND ROTATED. MAGNETO TO ENGINE TIMING CHECKED. INDUCTION ELEMENT CLEANED AND SERVICED. GROUND RUN UP OK. AD'S THROUGH 2021-20 CHECKED FOR COMPLIANCE.</p> <p>W/O 12427</p> <p>I CERTIFY THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION.</p> <p>MATTHEW G SHOWALTER AP 3542093 IA <i>Matthew G Showalter AP 35420937A</i></p>
11-20-21	TACH = 1355.2			<p>- DRAINED OIL, REMOVED, INSPECTED FILTER</p> <p>SERVICED WITH PHILLIPS 20W50 AND NEW CH48109-1 FILTER</p> <p>GROUND RUN OK - <i>A. J. B. #3335501</i></p>
<p><b>N218X Engine Log</b> <span style="float: right;"><b>Flt. Time, 1358.0</b></span></p> <p>Removed and replaced the SureFly p/n SIM6C s/n off 6C1120013 s/n on 6C3821014 per SureFly instructions for continued airworthiness and installation manual. Performed an operational check, no defects noted.</p> <p>The component listed above was repaired or inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service.</p>				
<p><b>Stephen R Schilling</b> ProAv Aviation Services</p> <p><i>Stephen R Schilling</i></p>			<p>AP/IA3330755 12/14/2021</p>	
				<p>5/31/2022 N218X CONTINENTAL IO-550-N S/N 917350 HOBBS 2072.2 TSOH 257.3</p> <p>OIL AND FILTER CHANGED. SAMPLE TAKEN. FILTER WAS INSPECTED FOR CONTAMINATION NONE FOUND. SERVICED WITH PHILLIPS 20W50 XC AND CH48109-1 FILTER. GROUND RUN AND LEAK CHECK OK.</p> <p>W/O 12491</p> <p><i>Matthew G Showalter AP 85420937A</i></p>

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

8/18/2022 N218X TCM IO-550-N S/N 917350 HOBBS & TT 2115.1 SMOH 300.2

OIL AND FILTER CHANGED. FILTER WAS INSPECTED FOR CONTAMINATION, NONE FOUND. SERVICED WITH PHILLIPS 20W50 XC AND AA48109 FILTER. GROUND RUN AND LEAK CHECK OK. W/O 12518

MATTHEW G SHOWALTER AP 3542093 IA  
*Matthew G Showalter AP3542093IA*

10/17/2022 N218X TCM IO-550-N S/N 917350 HOBBS & TT 2124.7 SMOH 309.8

COMPRESSION TEST RESULTS #1)70/80 #2)78/80 #3)76/80 #4)76/80 #5)77/80 #6)76/80. SPARK PLUGS CLEANED AND ROTATED. MAGNETO TO ENGINE TIMING CHECKED. INDUCTION ELEMENT CLEANED AND SERVICED. REPLACED LEFT EXHAUST COLLECTOR BOLT P/N AN4-33. GROUND RUN UP OK. AD'S THROUGH 2022-21 CHECKED FOR COMPLIANCE. W/O 12536

I CERTIFY THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION.

MATTHEW G SHOWALTER AP3542093 IA  
*Matthew G Showalter AP3542093IA*

01/27/2023 N218X CONTINENTAL IO-550-N S/N 917350 HOBBS & TT 2152.3 TSOH 337.4

OIL AND FILTER CHANGED. FILTER WAS INSPECTED FOR CONTAMINATION, NONE FOUND. SERVICED WITH PHILLIPS 20W50XC AND AA48109 FILTER. REPLACED #2 CYLINDER INTAKE PUSH ROD SEALS P/N SA534610 AND 630286. CONTINENTAL SB21-03 OIL TEMPERATURE CONTROL VALVE DOES NOT APPLY BY PART NUMBER OR LOT NUMBER. QAA ASB 021 1 ALTERNATOR DRIVE COUPLING DOES NOT APPLY BY NEW ALTERNATOR INSTALLATION DATE OF 08/21/2017. GROUND RUN UP OK.

MATTHEW G SHOWALTER AP 3542093 IA  
*Matthew G Showalter AP3542093IA*

W/O 12565

6-2-23	Oil and Filter Changed, Inspected Filter, No Contamination Found. Serviced with Phillips 20w50 xc and AA48109 Filter Ground Run Up OK ✓		
	1494.2	<i>AP</i>	<i>B11 #3335501</i>

**SUB-TOTALS** this page

**TOTALS**-Carry forward to next page

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
11/03/2023 N218X TCM IO-550-N S/N 917350 HOBBS & TT 2231.9 TSOH 444.6				<p>COMPRESSION TEST RESULTS #1)70/80 #2)71/80 #3)72/80 #4)76/80 #5)75/80 #6)74/80. SPARK PLUGS CLEANED, GAPPED AND ROTATED. OIL AND FILTER CHANGED. SAMPLE TAKEN. FILTER WAS INSPECTED FOR CONTAMINATION, NONE FOUND. SERVICED WITH PHILLIPS 20W50 XC AND AA48109 FILTER. MAGNETO TO ENGINE TIMING CHECKED. INDUCTION FILTER ELEMENT CLEANED, SERVICED AND RE-INSTALLED. WASHED ENGINE, GROUND RUN AND LEAK CHECK OK. AD'S THROUGH 2023-22 CHECKED FOR COMPLIANCE.</p>
				W/O 12654
				<p>I CERTIFY THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION.</p>
				<p>MATTHEW G SHOWALTER AP 3542093 IA <i>Matthew G Showalter AP 3542093 IA</i></p>
				<b>SUB-TOTALS</b> this page
				<b>TOTALS</b> -Carry forward to next page