

THE
adlogTM

AIRCRAFT
MAINTENANCE
RECORDKEEPING
SYSTEM

N781WC

**ENGINE
MAINTENANCE
RECORDS**

Powermaster Aircraft Engines
9027 S. Airport Way
Tulsa OK 74132
918-299-0269

Date- 9-22-2023
 Engine Make- Continental
 Model- IO-550B-TN
 Serial Number-676085
 Engine Total Time- _____
 TSMOH- "0"

FAA Work Order 23-0922

This entry certifies this engine has been overhauled to manufactures new part limits. This engine has been disassembled, cleaned, inspected, overhauled and tested in accordance with CMI Overhaul manual M16 and Tornado Alley ICA's for fuel injection system.

This engine contains specialized components for TAT Turbo Normalizing system.

The following Accessories were overhauled or replaced new at time of overhaul unless noted:

Left Magneto-	BL-349350-4	F23HA123R	CMI CSB-673C NA-
Right Magneto-	10-349350-5	F23HA093R	CMI CSB-673C NA-
Fuel Injection System:			
Pump-	FT-B9.5/1-632818-2-11	133	GPFM #23-384
Fuel Controller-	FT-B8.5/1-442	A00HA042	GPFM #23-384
Manifold Valve-	646508-17A1P	C03AA233R	GPFM #23-384
Oil Cooler-	8000960	1128	New Aero Classics
Governor-	D210760	12200741	AAofOK WO-57518

Internal Steel certified by Aircraft Specialties on WO-279350.

Crankcase certified by Divco on WO-WDC-134593.

Crankshaft PN-649900, SN-N051A196. MSB-23-01A-NA due to SN.

Installed Ram Camshaft Gear PN-2078-1, for MSB05-08 compliance.

Installed Ram Crankshaft gear PN-2074-1.

Installed 6 each new Superior Millennium cylinders assemblies PN-SA-52006-A23P, SN-21289, 21290, 21292, 21293, 21297, 21300.

AD's Complied With:

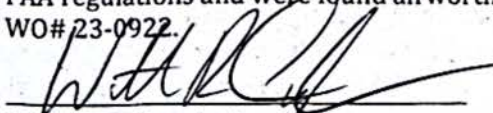
AD-93-16-15 Installed fuel pump drive coupling PN-653359.

AD-10-11-04 Installed 6 each 628488 and 6 each 653077 Hydraulic lifter assemblies.

SB18-08A, NA, by SN.

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# 23-0922.


 William R. Cunningham
 Powermaster Aircraft Engines
 FAA CRS P46R287Y

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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
 Turner Aviation Inc. 662-286-2290 62 County Road 613 Corinth, MS 38834 				
Date: 10/12/23	Tach: 3501.82	N781WC	Serial #: 676085	
TSOH: 0				
Performed annual/100hr inspection per TCM IO550C maintenance manual and Beech F33 maintenance manual. Installed newly overhauled engine using new P/NJ-10520-1 engine isolators. Serviced engine with 12qts 20w50 Phillips XC. Ground ran engine and adjusted fuel system IAW TCM SID97-3 and adjusted manifold pressure IAW Tornado Alley Turbo Instructions for continued airworthiness 35-6460001. Researched AD's AD2023-17-04 eff. 10/26/23 (oil filter adapter) is N/A. No STC adapter installed. AD2023-05-16 eff. 03/15/23 (crankshaft counterweight) is N/A per crankshaft S/N. AD2023-02-12 eff. 02/17/23 (SAP cylinder assemblies) is N/A per installed cylinder serial numbers. This engine has been inspected, was found to be airworthy and is now returned to service. END Timothy R. Nash AP4060756 <i>Timothy R. Nash</i>				
 Turner Aviation Inc. 662-286-2290 62 County Road 613 Corinth, MS 38834 				
Date: 3/20/24	Tach: 3523.42	N-781WC	Serial #: 676085	
Hobbs				
Drained oil, inspected oil filter, no metal found at this time. Installed new AA48109_oil filter and saftied. Serviced engine with 11qts Phillips XC 20w50 oil. Performed compression check results as following Cyl#1 73/80 Cyl#2 71/80 Cyl#3 71/80 Cyl#4 73/80 Cyl#5 76/80 Cyl#6 71/80. Master orifice reading was 42 for this day. Ground ran engine no leaks noted at this time. Returned engine to service. END John C. Turner A&P2631742				
5-24-24	Tech	35547	N781WC	
Drained oil inspected filter, no metal found. Installed new AA48109 oil filter and saftied. Serviced engine with 11qts Phillips XC 20w50 oil and 16ozs Camguard Ground ran engine no leaks noted. <i>John C. Turner</i>				
				SUB-TOTALS this page
				TOTALS -Carry forward to next page



C and T Aviation Inc - 4130 Aviation Drive - Madera, California 93637 - 5596750183

/ORK

N781WC

Tach: 3580.85

Continental, IO-550-C, S/N: 676085SINCE OVERHAUL
(Tach): 79.03**October 22, 2024**

1. Complied with 100 hour inspection per FAR 43 (app d). Drained engine oil and removed oil filter. Cut open oil filter and inspected for metal, none found. Installed new Tempest AA48109 oil filter. Serviced engine with 10 quarts of Phillips XC20W50 and 16 oz of Camguard. Washed and ground ran aircraft, no defects noted.
2. Performed differential compression check, results were as follows: 1-68, 2-72, 3-74, 4-70, 5-74, 6-68/80.
3. Removed cylinder 6 EGT probe. Installed new M-111 EGT probe on cylinder 6 exhaust riser.
4. Removed cylinder 4 EGT probe clamp and replaced with serviceable clamp.
5. Removed cylinder 1 EGT probe. Installed new M-111 EGT probe on cylinder 1 exhaust riser.

With respect to the work performed, this engine is approved for return to service. Details of work performed are on file with C and T Aviation Inc under work order: 2506.

Chris Tharp A&P, IA 2755348



C and T Aviation Inc - 4130 Aviation Drive - Madera, California 93637 - 5596750183

N781WC

Tach: 3598.08

Continental, IO-550-C, S/N: 676085SINCE OVERHAUL
(Tach): 96.26**May 19, 2025**

1. Pressure checked induction system, reconnected the elbow coupler that connects the intercooler to the upper deck crossover tube, and tightened clamps as necessary.
2. Performed oil change, drained engine oil and removed oil filter. Installed new Tempest AA48109 oil filter. Serviced engine with 10 quarts of Phillips XC20W50 and 16 oz of Camguard. Washed and ground ran aircraft, no defects noted.

With respect to the work performed, this engine is approved for return to service. Details of work performed are on file with C and T Aviation Inc under work order: 3060.

Chris Tharp A&P, IA 2755348



C and T Aviation Inc - 4130 Aviation Drive - Madera, California 93637 - 5596750183

N781WC

Tach: 3632.13

Continental, IO-550-C, S/N: 676085SINCE OVERHAUL
(Tach): 130.31**December 23, 2025**

1. Complied with 100 hour inspection per FAR 43 (app d). Drained engine oil and removed oil filter. Cut open oil filter and inspected for metal, none found. Installed new Champion CH48109-1 oil filter. Serviced engine with 10 quarts of Phillips XC20W50 and 16 oz of Camguard. Washed and ground ran aircraft, no defects noted.
2. Complied with differential compression check results were as follows #1-70, 2-72, 3-70, 4-70, 5-72, 6-75/80.
3. Adjusted wastegate controller to obtain 29.5" of manifold pressure.

With respect to the work performed, this engine is approved for return to service. Details of work performed are on file with C and T Aviation Inc under work order: 3135.

Chris Tharp A&P, IA 2755348

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