

Powermaster Aircraft Engines

Tulsa OK 74132

FAA [REDACTED]

Engine Repair Record

Date- 6-18-2020
Engine Make- Continental
Model- IO-520BB-IO-550-B-AP
Serial Number- [REDACTED]
Engine Total Time- 2345.1

PAE Work Order 20-0618

Engine disassembled for prop strike inspection. Cleaned and visually and dimensionally inspected.
Crankcase inspected and repaired by Divco Inc on WDC#126456. Lifter bores sleeved.
Replaced all cylinder deck studs.
Crankshaft and counterweights Magnaflux and Ultrasonic inspected by Aircraft Specialties on WO-258964
Connecting Rods and Rocker Arms overhauled by Aircraft Specialties on WO#258964.
Installed new countweight bushings, pins, plates and retainers.
Installed connecting rods on crankshaft using new bearings, rod bolts and nuts.
Replaced crank gear bolts and torqued.
Installed overhauled camshaft PN-653058.
Installed Ram camshaft gear PN-2074-1, PMA part for MSB-05-08B compliance.
Assembled crankcase using new main bearing set and nose seal.
Installed Aircraft Specialties Overhaul hydraulic lifter assemblies, 6 each PN-653877 and 6 each PN-653888.
Overhauled all cylinders:
Installed new exhaust guides, ground seats, lapped new intake and exhaust valves to seats, assembled in head using new springs, retainers, intake guide seals and roto-coils.
Cleaned pistons, fit rings to barrels, assembled on pistons and installed using new piston pins.
Installed and torqued cylinders to engine.
Fuel Pump- PN-35-655001, SN-GP2002B, repaired by Great Planes Fuel Metering on WO-20-318.
Replaced all seal and gaskets during assembly.
Installed CMI Factory Overhauled Magnetos.
Left magneto- BL-349350-4R, SN-F20CA194R.
Right Magneto- BL-349350-5R, SN-F20DA187R.
Overhauled Starter drive adapter/scavenge pump assembly PN-642085.
Completed assembly in accordance with CMI Overhaul manual M-16.
Performed test run in test cell, all parameters check good.

Supplied Overhauled Alternator- PN-649304, SN-0051A374R, Aircraft Accessories of OK, WO-38724 and Overhauled Drive Coupling, PN-646655, SN-QAA061469.

The engine and accessories listed above have been inspected and repaired in accordance with current FAA regulations and were found airworthy for return to service.
WO# 20-0618.

[REDACTED]
William R. Cunningham
Powermaster Aircraft Engines
FAA CRS [REDACTED]

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
ENGINE MODEL: IO-520BB/STC/IO-550B-AP ENGINE S/N: [REDACTED] REG NO: 7220B WORK ORDER: 11009-07-2021  Honeycutt Aviation, Inc. [REDACTED] Olivehurst, CA 95961 Phone: ([REDACTED]) DATE: 9/8/2021 A/C TSN: 5356 9 ENG TT: 2370 9 TSMOH: 670 9 HOBBS: 5356 9				
Engine Entries I certify that this engine has been inspected in accordance with an annual inspection and was determined to be in airworthy condition. Performed oil & filter change. Drained oil, cut and inspected oil filter, no defects noted. Installed new CH48109-1 oil filter. Serviced with 10 qts Phillips 20/50XC and added 1/2 pint of CamGuard. No leaks noted after run-up. Adjusted take off manifold pressure to 31". Adjusted take off RPM to 2700. Safetied stop bolt Set engine idle speed to 650 RPM Installed two new baffle mounting screws at oil cooler. Cleaned and sealed baffles as required. Tightened all wiring on alternator. Installed #5 cylinder induction clamp and tightened all loose induction clamps. Throttle plate was going beyond center with control in full throttle position. Adjusted full throttle stop screw to stop throttle plate at wide open throttle and secured stop screw. Installed new left upper aft deck reference line seal. Adjusted the right magneto point gap to .014 (.018 + or - .006) checked "E" gap 14 degrees (15 + or - 2). Installed the magneto and timed to 21.7 degrees BTDC and torqued attaching hardware. Fabricated and installed turbo waste gate drain line. AD 20-16-11 N/A. This engine does not have cross flow cylinders installed.				
DATE: 9/8/2021 SIGNED: [REDACTED] Daniel Honeycutt, IA 2608070 Work Order: 11009-07-2021 Printed by EBis 3 (datcomedia.com)				
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