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Engine R

page 1 of 1

N419BC

HOBBS: 3598.3

Lycoming, IO-540-AA1A5 MM, S/N: L-21845-48A

TSOH: 1484.6

November 28, 2023**MARTIN AVIATION****ATA 72 ENGINE**

1. Performed compression check results as follows: #1 65 #2 73 #3 78 #4 76 #5 74 #6 65
2. Installed all new sparkplugs p/n RHB32E
3. Repaired aft engine baffle assembly as required
4. Removed cyl. #3 for repairs and installed repaired cylinder p/n LW12988 s/n J211555 repaired by John Jewell Aircraft, Inc. CRS# JUJR300L W.O.# J211555
5. Removed engine inlet "J-duct" for repairs and reinstalled
6. Installed all new rubber engine mount assemblies p/n 94011-01 using all new hardware
7. Installed all new intake gaskets p/n 71973 and 72711
8. Removed lower intake plenum cover, cleaned, inspected, resealed and reinstalled
9. Installed all new hoses in "no mans land" behind firewall

ATA 73 ENGINE FUEL AND CONTROLS

1. Installed all new fuel and fuel control hoses
2. Installed all new hoses p/n LW18737 on fuel injector vent assemblies
3. Removed, cleaned, inspected, and reinstalled fuel injector nozzles
4. Installed overhauled flow divider p/n 2524232-2 s/n A0X6518 overhauled by Precision Airmotive LLC CRS# P32R748N W.O.# 10X65
5. C/W AD 2015-19-07 (fuel injector lines) by visual inspection - no defects noted - NEXT DUE 6398.3 HOBBS or NOV 2024

ATA 74 IGNITION

1. Removed left and right magnetos for repairs
2. Installed repaired magneto p/n 10-349290-1R s/n D-02179 repaired by Aircraft Accessories of Oklahoma CRS# RV3R829L W.O.# 44714 in the left position and timed
3. Installed repaired magneto p/n 10-349310-1 s/n A111746 repaired by Aircraft Accessories of Oklahoma CRS# RV3R829L W.O.# 44716 in the right position and timed
4. Repaired left magneto p-lead wire

ATA 76 ENGINE CONTROLS

1. Checked engine controls for operation and full travel
2. Riggged alternate air door controls as required

ATA 77 ENGINE INDICATING

1. Installed all new oil, manifold, and fuel pressure hoses
2. Installed new CHT probe p/n 2855 in cylinder # 3

ATA 79 OIL

1. Drained oil and serviced with Aeroshell oil W100
2. Removed old filter and inspected - ok -
3. Installed new oil filter p/n AA110-2
4. Installed all new oil hoses
5. Pre-oiled engine and turbochargers before ground run check

ATA 81 TURBINES

1. Removed outboard turbocharger for repairs
2. Installed overhauled turbocharger p/n 600803-9002 s/n ZCN34996 overhauled by Main Turbo Systems Inc. CRS# MAMR190K W.O.# 60789
3. Installed new restrictor fitting p/n 90-10002Z on wastegate actuator
4. Installed new wastegate return spring p/n 320025-002 on outboard wastegate
5. Installed new wastegate actuator bearing block p/n 300037-001
6. Installed new sonic nozzle duct p/n 98-10002-001
7. Installed new intercooler duct p/n 654439-1
8. Installed new turbocharger and compressor hoses p/n 920029-589 and p/n 98-10002-001
9. Adjusted wastegate control system IAW Machen document 65-1

Ground run and leak check - ok-

With respect to the work performed, this engine is approved for return to service.

Steve Martin AP/IA 3492959 **SUB-TOTALS** this page**TOTALS**—Carry forward to next page