

AIR TIME AND

DATE

WO_66

Airframe - page 1 of 1

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FORM



flywyd Aviation, LLC - 10505 Wakeham Dr - Manassas, Virginia 20110 - 703-651-2640

FOR COMPLETE

N458MA
Hobbs: 6133.6

DIAMOND AIRCRAFT IND INC, DA20-C1, S/N: C0340
TACH: 2669.7

June 09, 2021

Performed a 100 Hour Inspection with reference to Diamond Aircraft DA-20 C1 Maintenance Manual Inspection Check-List and the scope and detail of 14 CFR 43; Appendix D. Inspected Instruments for proper operation, condition, and mounting. Verified proper movement and security of flight controls. Inspected flight control cables, turnbuckles, and pulleys for freedom of movement, security, and proper operation. Installed new Brackett Air Filter (PN: BA16). Inspected all interior and exterior lighting systems and verified proper operation. Relamped RH alt position lamp (PN: 11-16627). Performed operational test with favorable results. Performed operational tests and visual inspection of cabin heat and ventilation systems and ensured controls travel freely and operate within guidelines. Inspected fixed landing gear system. Inspected all tires and serviced to proper pressure. Performed LH and RH MLG brake caliper and brake lining inspection. Cleaned all bearings, inspected, and re-packed with Mobil Aviation grease. Installed new O-ring (PN: MS28775-218) on RH MLG brake caliper due to constant leak. Installed new brake linings (PN: 66-10600) on RH MLG as the original linings were found to be worn well past limits. Bled brake system to remove all air induced during caliper repair. Performed operational test of RH MLG brakes. Removed EGT probe for troubleshooting on the bench. Performed test with hand torch and probe reads proper mV when heated with torch. Re-installed probe on aircraft and performed torch test with probe installed on gauge. Gauge reads as it should. Performed engine runs and found EGT gauge displays proper values.

AD 93-05-06 'ACS Ignition Switches' is next due @ Tach: 4570.1 Rudder Cables due @ Tach: 3454.5 or 9/30/2025; whichever occurs first.

I certify this Airframe has been inspected in accordance with a 100 Hour Inspection Check-List and was determined to be in airworthy condition at the time of inspection. With respect to the work performed, this airframe is approved for return to service. Details of work performed are on file with flywyd Aviation, LLC under work order: WO_66.

Roman Kozhevnikov Airframe and Powerplant

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Flywyld Aviation, LLC 10535 Wiseman Dr Manassas, Virginia 20110 703-651-2640

Engine page 1 of 1

A4

N458MA

CONT MOTOR, IO-240-B, S/N: ENGINE SN TBD

June 09, 2021

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Inspected this engine as part of a 100 Hour Inspection with reference to Diamond Aircraft DA20 C1 Maintenance Manual Inspection Check-List and the scope and detail of 14 CFR 43; Appendix D. Compression test results are as follows: 1. 72/80 2. 68/80 3. 71/80 4. 77/80. Fully drained engine oil with engine at operating temperature. Removed engine oil filter, inspected contents of filter (no contamination noted), installed new Tempest oil filter (PN: AA48108-2), torqued to 18 ft/lbs, and safety wired in place. Serviced engine with 5 quarts of 15W-50 Aeroshell engine oil. Removed all spark plugs from engine. Cleaned, gapped, tested, re-installed with new copper gaskets, and torqued to 30 ft/lbs. Verified magneto timing at 26 degrees BTDC. During magneto timing check, found RH magneto to be firing at 18 degrees. Adjusted RH magneto timing to 26 degrees BTDC as per Continental Service Manual. LH magneto timing did not drift and does not require any adjustment at this time. Pressure tested exhaust system and visually inspected engine mounts. Installed all new exhaust stack gaskets (PN: 06-02083) due to leakage found during pressure testing. Post gasket installation leak check good. Visually inspected and performed full wash of engine and associated components with Naphtha. Performed post inspection/repair engine ground runs with favorable results.

Researched Engine ADs through 8 June 2021 - There are currently no active Engine ADs...

I certify this Engine has been inspected as part of a 100 Hour Inspection and was determined to be in airworthy condition at the time of inspection. With respect to the work performed, this engine is approved for return to service. Details of work performed are on file with flywyld Aviation, LLC under work order: WO_66.

Roman Kozhevnikov Airframe and Powerplant

