

Engine Record General Information

Manufacturer LYCOMING Model O-320-E2D

Serial L-32730-27A Type Certificate _____

This engine is currently installed in aircraft: N 20352 Cessna 172 M
17261215

Minimum Octane Fuel _____ Oil Grade: Summer _____ Winter _____

Magneto Time _____ Point Setting _____ Firing Order _____

Spark Plug Gap _____

Manufacturer's Recommended Overhaul at 2000 hours

Engine: Lycoming O-320-E2D

S#: L-32730-27A

ETT: 1835.5

TSMOH: N/A

Drained oil and removed filter. Cut filter open and inspected with no abnormalities noted. Serviced engine oil sump with 7 quarts of Aeroshell W80 mineral oil and installed a new Tempest AA48110-2 EZ spin oil filter. Performed differential compression test on all cylinders with the following results: 1=74, 2=72, 3=72, 4=<40 all over 80 psi. Cylinder #4 was removed and sent to Harrison Engine Service, Inc. for repair; see FAA form 8130-3 for details. Reinstalled cylinder IAW Textron-Lycoming overhaul manual and replaced the following components; oil seal ring p/n(71481), two(2) inboard shroud tube seal p/n(62922), two(2) outboard shroud tube seal p/n(70310), intake tube seal p/n(69603), intake gasket p/n(71973) and exhaust gasket p/n(77611). R&R valve cover gaskets p/n(G-8179-HD) and oil return hoses p/n(SLSTD2180) on cylinders #2 and #4. Removed spark plugs and; cleaned, inspected, gapped, tested, and rotated. Verified magneto to engine timing @ 25° BTDC. R&R ignition lead insulator p/n(M1677) on cylinder #4T. Adjusted idle mixture by turning screw 1/8 turns CCW (rich). Removed carburetor inlet screen and inspected with no debris noted, reinstalled with new fuel gasket p/n(MC16-A36). Lubricated and verified clearance of all engine controls. Test ran engine and leak checked with no discrepancies noted. All work performed IAW Lycoming O-320 service manual.

I certify that this **engine** had been inspected IAW **appendix D of FAR Part 43 - annual inspection** and has been found satisfactory for return to service.

Sparta Aero Services, Inc. – Thomas Mathis, 3449886IA



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01/30/2020

Engine: Lycoming O-320-E2D

S#: L-32730-27A

ETT: 1842.3

TSMOH: N/A

Performed differential compression test on all cylinders with the following results: 1=71, 2=72, 3=73, 4=74 all over 80 psi.

Serviced engine oil sump with 1 quart of Aeroshell W80 mineral oil. Removed spark plugs from engine; cleaned, inspected, gapped, tested, and rotated. Verified magneto to engine timing @ 25° BTDC. Lubricated and verified clearance of all engine controls. Removed propeller to facilitate Airworthiness Directive compliance. Complied with **AD 98-02-08** by inspection – okay. Installed crankshaft plug p/n(STD-1211). Reinstalled prop, torqued bolts, and secured them with .032" safety wire IAW Cessna service manual. Test ran engine and leak checked with no discrepancies noted. All work performed IAW Lycoming O-320 service manual.

I certify that this **engine** had been inspected IAW **appendix D of FAR Part 43 - annual inspection** and has been found satisfactory for return to service.



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