

**ENGINE**

Reg: N245DS  
 Model: IO-360-M1A  
 S/N: L-33585-51E  
 W/O: MS-17-03891



Date: 23 January 2018  
 Hobbs: 1,357.1  
 Tach: 1,058.0  
 ACTT: 1,058.0  
 ETT: 1,058.0

Scheduled Inspections/Maintenance Checks:

- 1) Complied with the Annual Inspection/200 Hour Check per the "Maintenance Checklist Airframe" in reference to Diamond DA 40 Series Airplane Maintenance Manual, Doc.#6.02.01, Rev. 7, Chapter 05-28-50.
- 2) Complied with the Annual Inspection/200 Hour Check per the "Maintenance Checklist DA 40 with Lycoming IO-360-M1A Engine" in reference to Diamond DA 40 Series Airplane Maintenance Manual, Doc.#6.02.01, Rev. 7, Chapter 05-28-00.
- 3) Performed a differential compression test per AC 43.13-1B, Paragraph 8-14. 1) 74/80, 2) 73/80, 3) 74/80, 4) 75/80.
- 4) Removed, cleaned and reinstalled the fuel injector nozzles in reference to Lycoming SI No. 1275C.
- 5) Performed the oil and filter change and screen cleaning per Lycoming MSB No. 480E. Drained the oil. Removed and replaced the oil filter with new (p/n CH48110-1). Inspected the filter and the oil sump screen and did not find any metal contaminants. Serviced the engine with 8 quarts of Phillips 20W-50 XC oil. Sent in an oil sample for analysis.

Airworthiness Directives / Service Bulletins:

- 6) Complied with AD 2015-19-07, effective date 11/3/2015, by inspection of the fuel lines in accordance with Lycoming MSB No. 342G Fuel Line Inspection and Installation Checklist and Diagram No. 1 of Supplement No. 1 To SB No. 342G. Next due at Tach 1168.0.
- 7) Complied with AD 2017-16-11, effective date 8/15/2017, by researching the aircraft records. Paragraph (c)(1) is not applicable by engine serial number per Lycoming MSB No. 632B Table 1. Paragraph (c)(2) is not applicable since no replacement parts listed in Table 2 were replaced during date range.

Maintenance Actions:

- 8) Cleaned, gapped, inspected and rotated the spark plugs in reference to Champion ASM (V6-R). Reinstalled plugs with new gaskets (p/n M674).
- 9) Removed, cleaned and reinstalled the fuel injector nozzles in reference to Lycoming SI No. 1275C. Leak check satisfactory.
- 10) Performed an engine ground run per FAR 43.15(c)(2) in reference to DA 40 Series AMM 05-28-91 Engine Ground Test. Operational checks were satisfactory. No leaks or defects noted.

The aircraft, airframe, engine, propeller, or appliance identified above was repaired and inspected in accordance with current Regulations of the Federal Aviation Administration and is approved for return to service with respect to the work performed. Pertinent details are on file under the above work order.

Signed: \_\_\_\_\_

CRS #M9TR576Y

525 Turbine Ave, Chesterfield, MO (636)532-6155

**ENGINE**

Reg: N245DS  
 Model: IO-360-M1A  
 S/N: L-33585-51E  
 W/O: MS-17-03896



Date: 23 January 2018  
 Hobbs: 1,357.1  
 Tach: 1,058.0  
 ACTT: 1,058.0  
 ETT: 1,058.0

Maintenance Actions:

- 1) Removed and replaced the lower #1 cylinder spark plug with new (p/n REM38S).
- 2) Adjusted the timing of the left and right magnetos in reference to (L)IO-360-M1A Maintenance and Overhaul Manual, Section 72-60-03e.
- 3) Replaced one missing #2 cylinder rocker box cover screw and two baffle screws with new (p/n STD1925).
- 4) Removed and replaced the #3 cylinder fuel injection line with new (p/n LW12098-0-180) with new clamps (2 ea. p/n LW16266-10-75 and 2 ea. p/n LW16266-10-13) in reference to Lycoming MSB342G and the diagram per Lycoming MSB342G supplement 1.
- 5) Removed and replaced the oil dipstick tube gasket with new (p/n 72059).
- 6) Removed and replaced all four rocker box cover gaskets with new (p/n 75906) in reference to (L)IO-360-M1A Maintenance and Overhaul Manual, Section 72-60-05. No leaks noted.
- 7) Performed an engine ground run per FAR 43.15(c)(2) in reference to DA 40 Series AMM 05-28-91 Engine Ground Test. Operational checks were satisfactory. No leaks or defects noted.

The aircraft, airframe, engine, propeller, or appliance identified above was repaired and inspected in accordance with current Regulations of the Federal Aviation Administration and is approved for return to service with respect to the work performed. Pertinent details are on file under the above work order.

Signed: \_\_\_\_\_

CRS #M9TR576Y

525 Turbine Ave, Chesterfield, MO (636)532-6155

MAINTENANCE

REPAIRS, ADJUSTMENTS, MODIFICATIONS  
 ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.

SIGNATURE

L  
N

02-04-19

Hobbs 1390.5

Annual insp. completed IAW FAR 43 and Lycoming MM.  
 Serviced engine with 7 qts Aeroshell 15W50.  
 Replaced oil filter with new Tampest AA48110-2.  
 Inspected old filter, no metal noted. Cyl. compressions  
 are as follows: 1)  $\frac{74}{80}$ , 2)  $\frac{72}{80}$ , 3)  $\frac{75}{80}$ , 4)  $\frac{74}{80}$ . M.O.  $\frac{46}{80}$ .  
 Cleaned, gapped, and rotated spark plugs. Checked  
 magnets to engine timing. All applicable A/Ds  
 complied with. Performed engine run, no defects or  
 leaks noted. This engine has been inspected IAW  
 an annual insp. and has been found to be airworthy  
 at this time. Jk Call A&P 275938827

wo: WO\_314

Engine - page 1 of 1



KJC Aircraft Services

N245DS  
 Tach: 1403.8

June 15, 2020

1. Completed Annual Inspection reference FAR 43 appendix D.
2. Completed compression test with the following results: #1 cyl. 66/80, #2 cyl. 64/80, #3 cyl. 70/80, #4 cyl. 78/80.
3. Drained engine oil and removed filter. Cut open old filter and inspected. No metal found. Installed new 48110 oil filter. Serviced engine with 7 qts Aeroshell 15W50.

I certify this engine has been inspected in accordance with an Annual inspection reference FAR 43 appendix D and was determined to be in an airworthy condition. With respect to the work performed, this engine is approved for return to service. Details of work performed are on file with KJC Aircraft Services under work order: WO\_314.

Ted Stephens A&P/IA 3288321

*Ted Stephens*