



STL Flight Maintenance · 2500 Vector Dr · Cahokia, IL 62206 · 618-332-3661

N118SG
TACH: 6997.0

LYCOMING, 0-540 SERIES, S/N: ENGINE SN TBD

January 05, 2024

1. **Annual Inspection Due** – Performed Annual Engine inspection referencing aircraft M.M. and 14 CFR 43 appendix D as a guide. Ran engine and tested for leaks and operation, no defects noted.
2. **Remove and Test Spark Plugs.** – Removed, cleaned, gapped, and tested spark plugs. Installed and torqued per A.M.M.
3. **Engine Compression Check Due.** – Checked engine compressions #1 70/80, #2 70/80, #3 78/80, #4 75/80, #5 72/80, #6 78/80.
4. **Oil filter inspection due** – Removed oil filter. Cut filter opened. Inspected filter element. No defects noted. Installed filter. Torqued to 16 FT LBS. Safetied. P/N AA48103-2
5. **Multiple oil leaks, on engine. 4 qts. lost in flight** – Washed down engine. Towed into hanger. Found vacuum pump leaking excessively. Removed vacuum pump and loose hardware. Replaced gasket and reattached vacuum pump. Properly torqued hardware. Additional oil leaks found at throttle body and oil pan. Re-torqued oil pan and throttle body. Washed engine down. Ran and leak checked good. P/N SL8313.
6. **#1, #2, and #3 oil return hose clamps need retorqued.** – Tightened oil return hose clamps.
7. **Mag timing at 19 deg. needs to be 23 deg.** – Adjusted trimming to 23 Deg.
8. **Engine baffle cracked 2 places forward of #2 cylinder.** – Owner elected not to work.

I certify that this engine has been inspected IAW an Annual inspection and found 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 STL Flight Maintenance under work order: WO-2310-013.

Ron Brown Technician A&P IA 3443354