



## Alterations

ate Number of Technician or

YEAR

20

DATE

WO#: INT20075 N#: N75139 Date Completed: 8/21/2019  
 ACTT: 8,970.5 TACH: 8,970.50 HOBBS: 2,359.70 ENGT: 6,876.10 TSMOH: 1,372.90 PROPTT: 2,576.90  
 Manufacturer: Lycoming Div. Avco Corp Textron Part/Model number: IO360C1C S/N: L-8819-51A

- 2.1 Completed 100 hour inspection in accordance with FAR 43 Appendix D. Compression test as follows #1, 76/80, #2, 78/80, #3, 76/80, #4, 78/80. Complied with AD 2015-19-07 (dated: 11/03/2015). Complied with by visual inspection of fuel lines and clamps for the fuel injection system in accordance with Lycoming MSB No. 342G (dated: 07/16/2013), Supplement No. 1 to 342G (dated: 08/29/2013) and Supplement No. 2 to 342G (dated: 01/23/2014). No defects found, determined to be in satisfactory condition at this time. Next due in 100hrs at TACH: 8,985.7 and ACTT: 8,895.7. Drained engine oil and took sample, sent sample for analysis. Removed oil filter and cut open to inspect for metal, none found. Installed new Champion oil filter CH48110-1. Removed, inspected and cleaned oil suction screen. Installed oil suction screen with new crush gasket, 12oz bottle of MS35769 21. Serviced engine with 8qts Phillips 15W/50 and added 1ea. 12oz bottle of AVBLEND oil additive. Inspected and inspected fuel servo screen. Replaced Spark plugs. Installed 18 spark plugs P/N: REM38E. Adjusted mag timing to 30° B.T.C. Airbox alternate air control arm attachment rivets are loose, replaced with new rivets at weld. Removed damaged intake air box from aircraft and removed alternate air door assembly from damaged intake airbox and installed onto a serviceable intake airbox (P/N: 99047-00) Installed the serviceable intake airbox onto engine alone with a new gasket (P/N: 63684-004). Work performed IAW Chapter 4 Section 4 of AC13.13-1B and Section VIIIA of Piper Arrow PA28R-200 Service Manual. Removed all 4 cylinder's valve covers, cleaned valve covers and cleaned old gasket residue off of cylinders, installed x4 new gaskets (P/N: 67193) on cylinder heads. Reinstalled all valve covers. Work performed IAW Section 6 of Lycoming Direct Drive OHM. #1 & #4 cylinder intake gaskets leaking. Disassembled #4 cylinder intake tube and #1 cylinder intake tube and installed x2 new gaskets (P/N: 71973) on intake tube flange to cylinder. Reinstalled intake tubes. Work performed IAW Section 8 of Lycoming Direct Drive OHM. Adjusted idle speed and idle mixture rise IAW Section VIIIA of Piper Arrow PA28R-200 Service Manual. #3 Intake tube dented beyond limits. Replaced o-ring intake pipe seal p/n: 77569, also replaced intake gasket seal p/n: 71973 and installed serviceable intake tube on #3 cylinder IAW Maintenance Manual - PA-28-200 Cherokee Section VIIIA. Washed engine, lubricated controls as required. Operational ground run-up/leak check satisfactory at this time. I certify that this engine has been inspected in accordance with a 100 hour inspection and was determined to be in an airworthy condition at this time.

CONTINUED ON NEXT PAGE.

**MAINTENANCE RELEASE / RETURN TO SERVICE CRS# U9FR750K**

**YE/** The aircraft, component(s), or appliance identified above have been repaired, tested and inspected in accordance with current Regulations of the Federal Aviation Administration and is approved for return to service. Pertinent details for the work accomplished can be obtained from the Work Order identified above and on file at this repair station.

**Iterations**

Number of Technician or

Inspector / Authorized Signature

Print Name

**BYRON COLLIER**

Aircraft #/CRS#

Work Completed

**U9FR750K**

**8-21-19**

**25 NOV 2019**

**TACK TIME 8995.23**

**TOTAL TIME 6900.83**

**TIMES MOIT 1397.63**

**THIS ENGINE REMOVED  
FROM N 75139**