

| DATE | TOTAL TIME IN SERVICE | TOTAL TIME SINCE OVERHAUL | TACH OR RECORDING METER TIME | DESCRIPTION OF WORK PERFORMED—<br>SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------|-----------------------|---------------------------|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|      |                       |                           |                              | <b>TOTALS</b> brought forward from previous page                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|      |                       |                           |                              | LYCOMING ENGINE MODEL: IO-540-K1A5 SERIAL: L6782-48<br>10.9/97 PIPER PA32-300 S/N: 32-40599 N154LG TACH: 1455.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|      |                       |                           |                              | Accomplished major overhaul of this engine. Disassembled, cleaned, inspected, and overhauled engine in accordance with factory recommended procedures, specifications and pertinent Federal Air Regulations.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|      |                       |                           |                              | All internal steel parts were magnafluxed and all non-ferrous materials were dye checked.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|      |                       |                           |                              | The following new parts were installed: (6) SL10207 piston, (6) CN203 piston ring set, (6) PA17XV exhaust valve, (12) SL11796 valve spring, (12) SL11797 valve spring, (12) 72050 valve keeper, (12) MS13997-3 valve keeper, (6) SL13444-1 piston pin, (2) SL13885 main bearing, (6) SL11575 main bearing, (12) 74309 rod bearing, (12) LW12596 rod bolt, (12) SL12186 rod bolt nut, (1) 78528 oil pump body, (1) SL18109-AS oil pump gear set, (2) 67542 magneto drive bearing, (1) 13S19647 crank gear, (6) 1102 plug, (1) 1028B oil pressure ball, (1) 61084 oil pressure spring, (2) SL76788 roller, (2) 73648 roller, (8) 71907A plate, (8) SL14820 snap ring, (1) STD2209 crank gear bolt, (1) LW25-0.75 bolt, (1) 77756 bracket, (1) CH48110 oil filter, (1) SL73185-1 gasket & seal set, (4) LW12136 magneto drive cushion, (6) STD1821 oil return hose. (12) Aeroshell 100 mineral oil. |
|      |                       |                           |                              | (6) Cermiril cylinders, P/N LW13531CN, overhauled by J & J Air Parts, FAA Repair Station #JE2R921K.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|      |                       |                           |                              | ***** CONTINUED ON NEXT PAGE *****                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|      |                       |                           |                              | <u>LYCOMING ENGINE MODEL IO-540K1A5 SERIAL L6782-48 (CONTINUED)</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|      |                       |                           |                              | (2) counterweights, P/N 73644 certified by Aircraft Engine & Accessory, FAA Repair Station #U1R533K.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|      |                       |                           |                              | (12) tappet bodies, P/N 72877, (6) connecting rods, P/N LW10646, (6) rocker arms, P/N 67112, (6) rocker arms, P/N 67113, & camshaft, P/N 76148, reconditioned & certified by Aircraft Engine & Accessory, FAA Repair Station #U1R533K.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|      |                       |                           |                              | Engine driven fuel pump, P/N RG17980D, S/N B-8974-3402 overhauled by Approved Aircraft Accessories, FAA Repair Station #US2R225L.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|      |                       |                           |                              | Vacuum pump, P/N 2110C, S/N 02234, overhauled by Aero Accessories, FAA Repair Station #YV4R688M.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|      |                       |                           |                              | Complied with AD75-08-09 & 96-09-10 by installing P/N SL18109-AS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|      |                       |                           |                              | Complied with AD91-14-22 by inspection & installing P/N 13S19647.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|      |                       |                           |                              | Complied with AD93-02-05 by inspection & proper clamping of lines.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|      |                       |                           |                              | Engine ground run on a test stand.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|      |                       |                           |                              | <b>SCHMIDT AVIATION INC.</b><br>Ft. Lauderdale, FL. 33309                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|      |                       |                           |                              | <b>SUB-TOTALS</b> this page                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |



ENGINE

June 27, 2024

Concord, NC 28027  
United States

Telephone:

Fax:

Manufacturer: Lycoming Div Avco Corp Textron

TSN/TSO: 4552.53 / 1097.13

ACTT/TACH: 4552.53/2552.53

Part/Model number: IO540K1A5

Serial Number: L6782-48

Work Order No: JQF:CRS2877

Date: 06/27/2024

### Squawk

- 3.1 Performed a Annual Inspection on this Engine IAW FAR Part 43 Appendix D in scope and detail. Removed, cut open, and inspected spin on oil filter. Drained oil, removed, inspected, and reinstalled sump screen. Installed new oil filter (PN: CH48109-1) and serviced with (12) quarts of Aeroshell 15W50 oil in crankcase. Compressions were as follows; 1)68, 2)68, 3)68, 4)72, 5)76, 6)68 out of 80 psi. Checked mag timing to ENG. Removed, cleaned, gaped, and inspected spark plugs. Replaced (8) failed spark plugs with new (PN: REM38E) and installed with new gaskets (PN: M674). Ground ran to check for leaks and proper operation. Ops and leak checked good. All work was done IAW Lycoming IO540 MM and SSP-1776-5.
- 3.2 Removed and replaced ignition harness with new slick harness kit (PN: M2154R). Post run ops checked good. All work was done IAW PA-32-300 Service Manual Section VIIA.
- 3.3 Removed and replaced (6) rocker box cover gaskets with new (PN: SL67193-S). Post run leak checked good. All work was done IAW Lycoming IO-540 MM Section 6 and SSP-1776-5.
- 3.4 Installed missing bolt lock plate (PN: 73383) on alternator bracket bolts. All work was done IAW Lycoming IO-540 MM and SSP-1776-5.
- 3.5 Performed mixture rise adjustment IAW Piper PA-32-300 MM Section 7A-20. Post run ops checked good.
- 3.6 C/W AD 2015-19-07 By Visual Inspection of fuel injection lines. No defects noted at this time and date. All work done IAW Lycoming MSB 342G. Effective 11/03/2015. Next due not to exceed 110Hrs TIS.

These items identified above were repaired and/or inspected in accordance with current Federal Aviation Regulations and the repairs are approved for return to service. I certify this Engine has been inspected IAW an Annual Inspection and was determined to be in an airworthy condition. A/C is returned to service at this time and date. Pertinent details of these repairs are on file at the repair station under Work Order Number JQF:CRS2877. -END-