

Left Engine

# AIRCRAFT TECHNICAL RECORD

## Section 3. ENGINE LOG

7-29-20

N8614Y

ENGINE DATA

1. Make Lycoming
  2. Model IO-320-B1A
  3. Specification \_\_\_\_\_
  4. Manufacturer's Serial Number L-1161-55A
  5. Date of Manufacture 9-23-96
- \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_





# Section 3A: Engine Service and Maintenance Log

| DATE<br>1 / 1      | TIME RUN |     | TIME<br>SINCE OVERHAUL |     | CYCLES       |       |
|--------------------|----------|-----|------------------------|-----|--------------|-------|
|                    | HOURS    | min | HOURS                  | min | Sub<br>Total | TOTAL |
| BROUGHT<br>FORWARD |          |     |                        |     |              |       |

DESCRIPTION OF WORK PERFORMED:  
(INSPECTION, REPAIRS, REPLACEMENT)

wo: PGAM\_EMP\_0266

Engine L - page 1 of 1



Phoenix Air Group, Inc - General Aviation Maintenance Division - 155 Highway 61 SW - Cartersville, GA 30120 - 770-387-2000 ext 134

**N8614Y**

Tach: 2837.3

**Lycoming, IO-320-B1A, S/N: L-1161-55A**

SMOH: 250.74

Lh tach: 2834.7

**July 24, 2020**

Rh tach: 2837.3

1. Repaired L/H Engine #3 Cylinder EGT Wires I/A/W Piper Comanche PA-30 Service Manual Section 10 And AC 43.13-1B Chp. 11. Ops Check Good. No Defects Noted.
2. Added 1/2 Quart Of 20W/50 To L/H Engine. Installed (1) P-2050-12 - PHILLIPS 66 X/C 20W-50 OIL.

I certify that all inspections, maintenance and/or repairs listed above have been completed in accordance with current Federal Aviation Administration regulations, and is approved for return to service. Details of work performed are on file with Phoenix Air Group, Inc - General Aviation Maintenance Division under work order: PGAM\_EMP\_0266.

Justin Blocker A&P 3353842

Entry: 2 of 3

wo: PGAM\_EMP\_0293

Engine L - page 1 of 1



Phoenix Air Group, Inc - General Aviation Maintenance Division - 155 Highway 61 SW - Cartersville, GA 30120 - 770-387-2000 ext 134

**N8614Y**

tach: 2858.23

**Lycoming, IO-320-B1A, S/N: L-1161-55A**

SMOH: 271.67

LH Tach: 2855.71

**November 12, 2020**

RH Tach: 2858.23

1. Completed L/H Engine Oil Change. Drained Oil. Removed Oil Filter And Inspected For Contamination. Serviced Engine With 7 Quarts Of Phillips 20W/50-XC, 1 Pint Of Camguard, and a New Ch48110-1 Oil Filter I/A/W PA-30 Service Manual Section 8. Ops and Leak Good, No Defects Noted. Installed (1) Oil Sample - Engine Oil Analysis, Installed (1) CH48110-1 - Oil Filter, Installed (1) MS35769-21 - Crush Gasket, Rev/Lot: 30-19105, Installed (1) 08-07097-1 - CamGuard 1 Pint, Installed (7) P-2050-12 - PHILLIPS 66 X/C 20W-50 OIL.

I certify that all inspections, maintenance and/or repairs listed above have been completed in accordance with current Federal Aviation Administration regulations, and is approved for return to service. Details of work performed are on file with Phoenix Air Group, Inc - General Aviation Maintenance Division under work order: PGAM\_EMP\_0293.

Kevin Southworth A&P 3641207

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NAME/  
SIGNATURELICENCE:  
AME or  
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wo: PGAM\_EMP\_0298

Engine L - page 1 of 1



Phoenix Air Group, Inc - General Aviation Maintenance Division - 155 Highway 61 SW - Cartersville, GA 30120 - 770-387-2000 ext 134

N8614Y

Lycoming, IO-320-B1A, S/N: L-1161-55A  
RH Tach: 2858.34 tach: 2858.34December 16, 2020  
SMOH: 271.78

LH Tach: 2855.83

1. C/W Engine Annual Inspection I/A/W CFR 43 Appendix D.
2. Compression check @ 80 psi. 1) 78, 2) 74, 3) 78, 4) 72. No defects noted.
3. Removed, Cleaned, Inspected, Gapped, Tested, Rotated & Re-installed Spark Plugs. Torqued Plugs (420 In./Lbs.) Wrench 1832. No Defects Noted.
4. Removed, Cleaned, Inspected & Re-installed Fuel Nozzles. Torqued To 60 In./ Lbs. Using Torque Wrench # PHO577. No Defects Noted.
5. Replaced L/H Engine Brackett Induction Filter BA-10. Installed (1) BA-10 - Air Filter.
6. Magneto timing for this engine should be 25.0 degrees BTDC. Found L/H @ 25.0 & R/H @ 25.0 degrees BTDC. No adjustment needed.
7. Engine Ops & Leak Check Good.
8. Washed Engine & Cowling.
9. C/W AD 2015-19-07 By Inspecting Fuel Lines And Clamps I/A/W Lycoming SB No. 342G. No Defects Noted.

I certify that all inspections, maintenance and/or repairs listed above have been completed in accordance with current Federal Aviation Administration regulations, and is approved for return to service. Details of work performed are on file with Phoenix Air Group, Inc - General Aviation Maintenance Division under work order: PGAM\_EMP\_0298.

Kevin Southworth A&amp;P / IA 3641207

wo: PGAM\_EMP\_337

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Phoenix Air Group, Inc - General Aviation Maintenance Division - 155 Highway 61 SW - Cartersville, GA 30120 - 770-387-2000 ext 134

N8614Y

Lycoming, IO-320-B1A, S/N: L-1161-55A  
RH Tach: 2887.6 tach: 2887.6May 01, 2021  
SMOH: 301.04

LH Tach: 2885.0

1. Completed 50 Hour Inspection L/H engine IAW Piper PA-30 M/M, Section 2. Performed aircraft operational & functional check. Inspected engine cowling for cracks, distortion & loose or missing fasteners. Changed Oil 7 Qts Phillips 20W-50 and 1 pint camguard & Oil Filter CH48110-1 torqued using Torque wrench PHO0231. Inspected Oil Filter for metal and or contamination (No defects noted). Removed, cleaned, gapped, tested, rotated & reinstalled spark plugs torqued to 420 in lbs using torque wrench PHO2034. Inspected and cleaned Induction Air Filter (Donaldson). Visual Inspection of oil lines & fittings, exhaust system, engine baffling & seals, air intake ducting, manifold hoses & clamps, cylinder base, magnetos & wiring, engine controls, compartment & mounts. Lubed engine controls. No Defects Noted. Engine Ops & Leak Checked Good. Installed (7) P-2050-12 - PHILLIPS 66 X/C 20W-50 OIL, Installed (1) 08-07097-1 - CamGuard 1 Pint, Installed (1) Oil Sample - Engine Oil Analysis, Installed (1) MS35769-21 - Crush Gasket, Rev/Lot: 30-19105, Installed (1) CH48110-1 - Oil Filter.
2. Removed and Replaced L/H Engine Oil Level Gauge Tube I/A/W Lycoming Overhaul Manual Section 8. Ops and Leak Checks Good. No Defects Noted. Installed (1) 77526 - TUBE-OIL LEVEL GAGE.

I certify that all inspections, maintenance and/or repairs listed above have been completed in accordance with current Federal Aviation Administration regulations, and is approved for return to service. Details of work performed are on file with Phoenix Air Group, Inc - General Aviation Maintenance Division under work order: PGAM\_EMP\_337.

Timothy Mullins A&amp;P 3718516



# Section 3A: Engine Service and Maintenance Log

| DATE<br>/ /        | TIME RUN |     | TIME<br>SINCE OVERHAUL |     | CYCLES       |       |
|--------------------|----------|-----|------------------------|-----|--------------|-------|
|                    | HOURS    | min | HOURS                  | min | Sub<br>Total | TOTAL |
| BROUGHT<br>FORWARD |          |     |                        |     |              |       |

DESCRIPTION OF WORK PERFORMED:  
(INSPECTION, REPAIRS, REPLACEMENT)

wo: PGAM\_EMP\_352

Engine L - page 1 of 1



Phoenix Air Group, Inc - General Aviation Maintenance Division - 155 Highway 61 SW - Cartersville, GA 30120 - 770-387-2000 ext 134

N8614Y

Lycoming, IO-320-B1A, S/N: L-1161-55A

July 26, 2021

LH Tach: 2898.38

RH Tach: 2901.05

tach: 2901.05

SMOH: 314.49

1. Removed And Replaced L/H Engine Vacuum Pump, Vacuum Regulator Filter, And Instrument Filter I/A/W Piper PA-30 Twin Comanche Service Manual. Torqued Vacuum To 100 In/Lbs Using Torque Wrench PHO577. Ops And Leak Check Good. No Defects Noted. Installed (1) ARB3-5-1 - Vacuum Regulator Filter, Installed (1) AA3215CC - Vacuum Pump, S/N: 0AP107, Installed (1) AAD9-18-1 - Filter Element.

I certify that all inspections, maintenance and/or repairs listed above have been completed in accordance with current Federal Aviation Administration regulations, and is approved for return to service. Details of work performed are on file with Phoenix Air Group, Inc - General Aviation Maintenance Division under work order: PGAM\_EMP\_352.

Justin Blocker A&P 3353842

*Justin Blocker*

wo: PGAM\_EMP\_373

Engine L - page 1 of 1



Phoenix Air Group, Inc - General Aviation Maintenance Division - 171 Highway 61 SE - Cartersville, GA 30120 - 770-387-2000 ext 134

N8614Y

Lycoming, IO-320-B1A, S/N: L-1161-55A

December 27, 2021

LH Tach: 2914.9

RH Tach: 2917.41

tach: 2917.41

SMOH: 330.85

1. C/W L/H Engine Annual Inspection I/A/W CFR 43 Appendix D.
2. Compression check @ 80 psi. 1) 76, 2) 76, 3) 78, 4) 72. No defects noted.
3. Changed L/H Engine oil & filter. Serviced with 7 quarts of Phillips 20W50XC oil, 1 Pint Of Camguard, and CH48110-1 filter Using PHO996 @17 Ft./Lbs. Disassembled filter and inspected for contamination. No defects noted. Installed P/N Oil Sample - Engine Oil Analysis, Installed P/N CH48110-1 - Oil Filter, Installed P/N MS35769-21 - Crush Gasket, Rev/Lot: 30-19105, Installed (7) P/N P-SAE20W-50 - PHILLIPS 66 X/C 20W-50 OIL, Installed P/N 08-07097-1 - CamGuard 1 Pint.
4. Removed, cleaned, inspected, gapped, tested, rotated & reinstalled spark plugs Using Torque Wrench PHO2034 @420 In./Lbs. No defects noted.
5. Removed, cleaned, inspected & reinstalled fuel nozzles @60 In/Lbs. Using PHO577. No defects noted.
6. Inspected/Replaced Brackett induction filter (BA-10). Installed P/N BA-10 - Air Filter.
7. Magneto timing for this engine should be 25.0 degrees BTDC. Found L/H @ 25.0 & R/H @ 25.0 degrees BTDC. No adjustment needed.
8. Engine ops & leak checked good.
9. Washed engine & cowling.
10. C/W Oil Sample.
11. C/W AD 2015-19-07 I/A/W Lycoming Engines MSB No.342G.

I certify that all inspections, maintenance and/or repairs listed above have been completed in accordance with current Federal Aviation Administration regulations, and is approved for return to service. Details of work performed are on file with Phoenix Air Group, Inc - General Aviation Maintenance Division under work order: PGAM\_EMP\_373.

Steve Pelfrey A&P / IA 3601725

*Steve Pelfrey*



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NAME/  
SIGNATURELICENCE:  
AME or  
AMO/ACA

wo: PGAM\_EMP\_378

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Phoenix Air Group, Inc - General Aviation Maintenance Division - 171 Highway 61 SE - Cartersville, GA 30120 - 770-387-2000 ext 134

**N8614Y****Lycoming, IO-320-B1A, S/N: L-1161-55A****January 31, 2022**

LH Tach: 2915.51

RH Tach: 2917.95

tach: 2917.95

SMOH: 331.39

Added 2 Quarts Oil to L/H Engine I/A/W Piper PA30 AMM Section 2. Ops Checks Good. No Defects Noted.  
Installed (2) P/N P-SAE20W-50 - PHILLIPS 66 X/C 20W-50 OIL.

I certify that all inspections, maintenance and/or repairs listed above have been completed in accordance with current Federal Aviation Administration regulations, and is approved for return to service. Details of work performed are on file with Phoenix Air Group, Inc - General Aviation Maintenance Division under work order: PGAM\_EMP\_378.

Timothy Mullins A&amp;P 3718516

wo: PGAM\_EMP\_424

Engine L - page 1 of 1



Phoenix Air Group, Inc - General Aviation Maintenance Division - 171 Highway 61 SE - Cartersville, GA 30120 - 770-387-2000 ext 134

**N8614Y****Lycoming, IO-320-B1A, S/N: L-1161-55A****September 09, 2022**

LH Tach: 2935.21

RH Tach: 2937.47

tach: 2937.47

SMOH: 350.91

1. Completed L/H Engine Oil Change. Drained Oil. Removed Oil Filter And Inspected For Contamination. Serviced Engine With 7 Quarts Of Phillips 20W/50-XC, 1 Pint Of Camguard, and a New Ch48110-1 Oil Filter Torqued To 17 Ft/Lbs. Using Wrench PHO2031. Work Done I/A/W PA-30 Service Manual Section 8. Ops and Leak Check Good, No Defects Noted. Installed P/N 08-07097-1 - CamGuard 1 Pint, Installed P/N Oil Sample - Engine Oil Analysis, Installed (8) P/N P-SAE20W-50 - PHILLIPS 66 X/C 20W-50 OIL, Installed P/N AA48110-2 - Oil Filter, Installed P/N MS35769-21 - Crush Gasket Rev/Lot: 30-19105.

2. Checked Idle And Mixture Settings I/A/W Piper Comanche PA-30 Service Manual Section 8. No Adjustments Made. Ops Check Good. No Defects Noted.

I certify that all inspections, maintenance and/or repairs listed above have been completed in accordance with current Federal Aviation Administration regulations, and is approved for return to service. Details of work performed are on file with Phoenix Air Group, Inc - General Aviation Maintenance Division under work order: PGAM\_EMP\_424.

Rob Foster A&amp;P 3751969



# Section 3A: Engine Service and Maintenance Log

| DATE<br>/ /        | TIME RUN |     | TIME<br>SINCE OVERHAUL |     | CYCLES       |       |
|--------------------|----------|-----|------------------------|-----|--------------|-------|
|                    | HOURS    | min | HOURS                  | min | Sub<br>Total | TOTAL |
| BROUGHT<br>FORWARD |          |     |                        |     |              |       |

DESCRIPTION OF WORK PERFORMED:  
(INSPECTION, REPAIRS, REPLACEMENT)

wo: PGAM\_EMP\_403

Engine L - page 1 of 1



Phoenix Air Group, Inc - General Aviation Maintenance Division - 171 Highway 61 SE - Cartersville, GA 30120 - 770-387-2000 ext 134

N8614Y

Lycoming, IO-320-B1A, S/N: L-1161-55A

January 31, 2023

LH Tach: 2935.36

RH Tach: 2937.6

1. Complied with an annual engine inspection & all maintenance IAW manufacturers maintenance manual & inspection procedures.
2. Complied With AD 2015-19-07 I/A/W Lycoming MSB 342G. No Defects Noted. Next AD due at 3035.36 or by February 1, 2024.
3. Compression check @ 80 psi. 1) 74, 2) 70, 3) 79, 4) 68, No defects noted.
4. Changed Oil & Filter. Serviced With 7 Quarts Of Phillips X/C 20W-50 Oil And 1 Pint CamGuard And CH48110-1 Filter. Torqued To @17ftlbs Using Oil Filter Torque Wrench PHO996. Disassembled Filter And Inspected For Contamination. No Defects Noted. Installed P/N CH48110-1 - Oil Filter, Installed P/N MS35769-21 - Crush Gasket Rev/Lot: 30-19105, Installed P/N 08-07097-1 - CamGuard 1 Pint, Installed (8) P/N P-SAE20W-50 - PHILLIPS 66 X/C 20W-50 OIL Rev/Lot: 1045457.
5. C/W Oil Sample Installed P/N Oil Sample - Engine Oil Analysis.
6. Removed, cleaned, inspected, gapped, tested, rotated & reinstalled spark plugs With Torque Wrench #PHO1832 To 420Inlbs I/A/W. No defects noted.
7. Removed, cleaned, inspected & reinstalled fuel nozzles With Torque Wrench PH0577 To 60Inlbs I/A/W. No defects noted.
8. Replaced Left Engine Brackett Induction Filter (BA-10). Ops Check Good. No Defects Noted Installed P/N BA-10 - Air Filter.
9. Magneto Timing For This Engine Should Be 25.0 Degrees BTDC. Found L/H @ 25.0 & R/H @ 25.0 Degrees BTDC. No Adjustment Needed.
10. Washed engine & cowling.
11. Engine ops & leak checked good.
12. Removed and Replaced L/H Engine #4 Cylinder Bottom Spark Plug I/A/W Piper PA-30 Service Manual Section 8. Torqued Spark Plug To 420 In-Lbs Using Torque Wrench PHO1832 I/A/W Lycoming IO-320 Overhaul Manual Section 10. Ops Check Good. No Defects Noted. Installed P/N URMH38S - Spark Plug Rev/Lot: na.
13. Attached New Ring Terminal To P-Lead I/A/W AC.43.13-1B Section 14. Ops Check Good. No Defects Noted.

I certify that all inspections, maintenance and/or repairs listed above have been completed in accordance with current Federal Aviation Administration regulations, and is approved for return to service. Details of work performed are on file with Phoenix Air Group, Inc - General Aviation Maintenance Division under work order: PGAM\_EMP\_403.

Steve Pelfrey A&P / IA 3601725

*Steve Pelfrey*

wo: PGAM\_EMP\_464

Engine L - page 1 of 1



Phoenix Air Group, Inc - General Aviation Maintenance Division - 171 Highway 61 SE - Cartersville, GA 30120 - 770-387-2000 ext 134

N8614Y

Lycoming, IO-320-B1A, S/N: L-1161-55A

April 07, 2023

LH Tach: 2947.9

RH Tach: 2949.9

tach: 2946.38

SMOH: 359.82

1. Timed right mag to 25.0 degrees and torqued magneto hold down nuts to 175 In/Lbs. using torque wrench PHO577 I/A/W Piper PA-30 service manual section 8. Ops check good. No defects noted.
2. Removed and all L/H engine spark plugs. Reinstalled spark plugs @ 420 In/Lbs. with torque wrench PHO1832 I/A/W Piper Comanche PA-30 service manual section 8. Ops check good. No defects noted.
3. Tightened manifold pressure gauge lines/fittings I/A/W Piper PA-30 service manual section 10. Ops and leak check good. No defects noted.

I certify that all inspections, maintenance and/or repairs listed above have been completed in accordance with current Federal Aviation Administration regulations and is approved for return to service. Details of work performed are on file with Phoenix Air Group, Inc - General Aviation Maintenance Division under work order: PGAM\_EMP\_464.

Christopher Swearingen A&P 4434676

*Christopher Swearingen*

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wo: PGAM\_EMP\_479

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Phoenix Air Group, Inc - General Aviation Maintenance Division - 171 Highway 61 SE - Cartersville, GA 30120 -  
770-387-2000 ext 134

LICENCE:

AME or  
AMO/ACA

N8614Y

Lycoming, IO-320-B1A, S/N: L-1161-55A

July 07, 2023

LH Tach: 2955.57

RH Tach: 2957.55

tach: 2946.38

SMOH: 359.82

1. Completed L/H engine oil change. Drained oil. Removed oil filter and inspected for contamination. Serviced engine with 7 quarts of Phillips 20W/50-XC, 1 pint of Camguard, and a new AA48110-2 oil filter torqued to 17 ft/lbs. using wrench PHO996. Work done I/A/W PA-30 service manual section 8. Ops and leak check good. Installed (8) P/N P-SAE20W-50 - Phillips 66 X/C 20W-50 Oil (Rev/Lot: 1045457); installed P/N AA48110-2 - oil filter; installed P/N MS35769-21 - crush gasket Rev/Lot: 30-19105; and installed P/N 08-07097-1 - CamGuard 1 Pint.
2. Performed spectrum oil analysis. Installed P/N Oil Sample - Engine Oil Analysis.

I certify that all inspections, maintenance and/or repairs listed above have been completed in accordance with current Federal Aviation Administration regulations and is approved for return to service. Details of work performed are on file with Phoenix Air Group, Inc - General Aviation Maintenance Division under work order: PGAM\_EMP\_479.

Christopher Swearingen A&amp;P 4434676



