



*The Standard*

**ENGINE LOG**

ASA-88-2



YEAR 20__	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	<b>Description of Inspections, Tests, Repairs and Alterations</b> Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility (.See back pages for other specific entries.)
--------------	---------------------------	-------------------	-----------------------------	---

wo: WO\_857 Engine - page 1 of 1



In The Pattern · 926 Aeronca Dr · Denton, Texas 76207 · 8322574366

**N62296** **May 20, 2025**  
TACH: 199.98 **Lycoming, O-320-D2J, S/N: L-12663-39A**  
TTSN: 15197.24 SMOH: 789.64

R&R marvel schebler carburetor MA-4SPA, PN 10-5217m SN: DC45433 with overhauled carburetor from Aircraft carburetor and injection services of Texas LLC. MN: 4SPA. PN: 10-5217, SN: 7500760. replaced airbox gasket with superior continental PN:21323, and carburetor gasket with lycoming gasket PN 66224. all work done IAW Cessna. Ground OPSS check good.

With respect to the work performed, this engine is approved for return to service.

Daniel Bettke A&P 4862298

wo: WO\_883 Engine - page 1 of 1



In The Pattern · 926 Aeronca Dr · Denton, Texas 76207 · 8322574366

**N62296** **June 02, 2025**  
TACH: 234.58 **Lycoming, O-320-D2J, S/N: L-12663-39A**  
TTSN: 15231.84 SMOH: 824.24

Drained oil and removed oil filter. Inspected oil filter and screen, no contaminants found. Serviced with 7 qts Phillips 20W-50 and replaced oil filter, cleaned, gapped and rotated spark plugs.

With respect to the work performed, this engine is approved for return to service.

Daniel Bettke A&P 4862298

YEAR 20\_\_ DATE wo: WO\_904 Engine - page 1 of 2



In The Pattern · 926 Aeronca Dr · Denton, Texas 76207 · 8322574366

**N62296** **June 24, 2025**  
TACH: 288.65 **Lycoming, O-320-D2J, S/N: L-12663-39A**  
TTSN: 15285.91 SMOH: 878.31

1. Performed 100 Hour Engine Inspection IAW Lycoming Maintenance Manual and Far 43 (d) as a guide. Performed engine compression test #1 - 79/80 #2 - 77/80, #3 - 70/80, #4 - 79/80. Drained oil and removed oil filter. Inspected oil filter and screen, no contaminants found. Serviced with 8 qts Phillips 20W-50 and replaced oil filter. Cleaned, gapped, rotated spark plugs. Lubricated engine controls.
2. Removed old mag PN ES4371 SN L-K02121 and replace with Overhauled Mag PN4373 SN 22120912 IAW AMM.
3. Removed worn oil fill neck gasket and replaced with new PN RG-72059 IAW Lycoming Overhaul Manual.
4. Removed vacuum pump gasket and vacuum pump gear housing gasket and replaced with new PN SL8313 and PN SL61183 IAM Lycoming Overhaul Manual.

wo: WO\_904 Engine - page 2 of 2



In The Pattern · 926 Aeronca Dr · Denton, Texas 76207 · 8322574366

With respect to the work performed, this engine is approved for return to service. I certify this Engine has been inspected IAW a 100 hour inspection and was found to be in Airworthy Condition

Matt Themins A&P 4870253

YEAR  
20  
DATE

wo: WO\_796

Engine - page 1 of 1



In The Pattern · 926 Aeronca Dr · Denton, Texas 76207 · 8322574366

N62296

TACH: 56.21

Lycoming, O-320-D2J, S/N: L-12663-39A  
TTSN: 15053.47 SMOH: -2232.93

March 31, 2025

Drained oil from engine and removed oil filter. Serviced engine with 7 qts of Phillips 20W-50, and installed new oil filter P/N: AA48110-2. All work performed IAW Section 4 of Lycoming Operators Manual.

With respect to the work performed, this engine is approved for return to service.

Luis Torrealba A&P 4983307

ations  
ber of  
ntries.)

YR  
21  
DI

wo: WO\_843

Engine - page 1 of 1



In The Pattern · 926 Aeronca Dr · Denton, Texas 76207 · 8322574366

N62296

TACH: 150.1

Lycoming, O-320-D2J, S/N: L-12663-39A  
TTSN: 15147.36 SMOH: -2139.04

May 06, 2025

Drained oil and removed oil filter. Serviced with 6 qts Phillips 20W-50 and replaced oil filter with P/N: AA48110-2. IAW Cessna AMM. Installed P/N AA48110-2 - TEMPEST OIL FILTER.

With respect to the work performed, this engine is approved for return to service.

Luis Torrealba A&P 4983307

ations  
ber of  
ntries.)

wo: WO\_815

Engine - page 1 of 1



In The Pattern · 926 Aeronca Dr · Denton, Texas 76207 · 8322574366

N62296

TACH: 90.44

Lycoming, O-320-D2J, S/N: L-12663-39A  
TTSN: 15087.7 SMOH: -2198.7

April 12, 2025

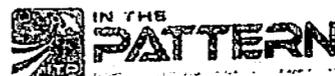
Performed 100 Hour Engine Inspection IAW Lycoming Maintenance Manual and Far 43 (d) as a guide. Performed engine compression test #1 - 78/80 #2 - 73/80, #3 - 77/80, #4 - 73/80. Drained oil and removed oil filter. Inspected oil filter and screen, no contaminants found. Serviced with 8 qts Phillips 20W-50 and replaced oil filter. Cleaned, gapped, rotated spark plugs. Lubricated engine controls.

With respect to the work performed, this engine is approved for return to service. I certify this Engine has been inspected IAW a 100 hour inspection and was found to be in Airworthy Condition

Matt Themins A&P 4870253

wo: WO\_852

Engine - page 1 of 1



In The Pattern · 926 Aeronca Dr · Denton, Texas 76207 · 8322574366

N62296

TACH: 189.42

Lycoming, O-320-D2J, S/N: L-12663-39A  
TTSN: 18072.42 SMOH: 779.08

May 15, 2025

Performed 100 Hour Engine Inspection IAW Lycoming Maintenance Manual and Far 43 (d) as a guide. Performed engine compression test #1 - 79/80 #2 - 78/80, #3 - 77/80, #4 - 78/80. Drained oil and removed oil filter. Inspected oil filter and screen, no contaminants found. Serviced with 8 qts Phillips 20W-50 and replaced oil filter. Cleaned, gapped, rotated spark plugs. Lubricated engine controls.

With respect to the work performed, this engine is approved for return to service. I certify this Engine has been inspected IAW a 100 hour inspection and was found to be in Airworthy Condition.

Daniel Bettke A&P 4862298

A  
V  
T  
E  
N  
C  
V  
W  
T  
h  
n  
P  
w  
N  
o  
T  
n  
l  
i  
a  
C

YEAR  
20  
DATE

wo: WO\_693

Engine · page 1 of 1



In The Pattern · 926 Aeronca Dr · Denton, Texas 76207 · 8322574366

**N62296**  
TACH: 2751.81  
**Lycoming, O-320-D2J, S/N: L-12663-39A**  
TTSN: 17749.07 SMOH: 462.67

**January 20, 2025**

Removed and bench tested spark plugs. Found 3 plugs had a bad spark. Replaced 3 bad plugs with new P/N UREM38E (x3) IAW Lycoming Overhaul Manual.

With respect to the work performed, this engine is approved for return to service.

Matt Themins A&P 4870253

wo: WO\_703

Engine · page 1 of 1



In The Pattern · 926 Aeronca Dr · Denton, Texas 76207 · 8322574366

**N62296**  
TACH: 2775.16  
**Lycoming, O-320-D2J, S/N: L-12663-39A**  
TTSN: 17772.42 SMOH: 486.02

**January 31, 2025**

1. Performed 100 Hour Engine Inspection IAW Lycoming Maintenance Manual and Far 43 (d) as a guide. Performed engine compression test #1 - 79/80 #2 - 76/80, #3 - 77/80, #4 - 80/80. Drained oil and removed oil filter. Inspected oil filter and screen, no contaminants found. Serviced with 7 qts Phillips 20W-50 and replaced oil filter. Cleaned, gapped, rotated spark plugs. Lubricated engine controls.
2. Found valve cover gaskets leaking on cylinders 2 and 4. Removed and replaced with new gaskets. P/N: RG-75906. IAW Lycoming OH Manual.

With respect to the work performed, this engine is approved for return to service. I certify this Engine has been inspected IAW a 100 hour inspection and was found to be in Airworthy Condition.

Luis Torrealba A&P 4983307

ions  
r of  
ies.)

YEJ  
20.  
DA1

wo: WO\_731

Engine · page 1 of 1



In The Pattern · 926 Aeronca Dr · Denton, Texas 76207 · 8322574366

**N62296**  
TACH: 2822.94  
**Lycoming, O-320-D2J, S/N: L-12663-39A**  
TTSN: 17820.2 SMOH: 533.8

**February 17, 2025**

50hr oil change. Drained oil and removed oil filter. installed AA48110-2 oil filter and torqued. serviced with 7 qrts Victory 20W-50. IAW AMM.

With respect to the work performed, this engine is approved for return to service.

Daniel Bettke A&P 4862298

tions  
er of  
tries.)

wo: WO\_764

Engine · page 1 of 1



In The Pattern · 926 Aeronca Dr · Denton, Texas 76207 · 8322574366

**N62296**  
TACH: 0.1  
**Lycoming, O-320-D2J, S/N: L-12663-39A**  
TTSN: 14997.36 SMOH: -2289.04

**March 12, 2025**

Performed 100 Hour Engine Inspection IAW Lycoming Maintenance Manual and Far 43 (d) as a guide. Performed engine compression test #1 - 79/80 #2 - 72/80, #3 - 79/80, #4 - 75/80. Drained oil and removed oil filter. Inspected oil filter and screen, no contaminants found. Serviced with 8 qts Phillips 20W-50 and replaced oil filter. Cleaned, gapped, rotated spark plugs. Lubricated engine controls.

With respect to the work performed, this engine is approved for return to service. I certify this Engine has been inspected IAW a 100 hour inspection and was found to be in Airworthy Condition

Luis Torrealba A&P 4983307

YEAR  
20\_\_  
DATE

wo: WO\_646

Engine - page 1 of 2



In The Pattern · 926 Aeronca Dr · Denton, Texas 76207 · 8322574366

N62296  
TACH: 2670.97

Lycoming, O-320-D2J, S/N: L-12663-39A  
TTSN: 17668.23 SMOH: 381.83

December 23, 2024

1. Performed 100 Hour Engine Inspection IAW Lycoming Maintenance Manual and Far 43 (d) as a guide. Performed engine compression test #1 - 77/80 #2 - 79/80, #3 - 78/80, #4 - 79/80. Cleaned, gapped, rotated spark plugs. Lubricated engine controls.
2. Installed new Powerflow exhaust system P/N: PFS-13204, S/N: 1781. IAW Manufacturer's instructions.
3. Installed new engine heater, P/N: 440. IAW Manufacturer's instructions.
4. Found governor adapter plate leaking. Removed and replaced gasket with P/N: SL69551, then reinstalled. IAW MM, reference to figure 18 on Manufacturer's IPC.
5. Found fuel pump adapter plate leaking. Removed adapter plate, replaced gasket with P/N: SL60096, then reinstalled. IAW MM, reference to figure 17 of manufacturer's IPC.
6. Found rocker cover gaskets leaking on Cylinders 1 and 3. Removed rocker covers and replaced gaskets with new P/N: SL75906. IAW MM, reference to figure 10 on Manufacturer's IPC.

wo: WO\_646

Engine - page 2 of 2



In The Pattern · 926 Aeronca Dr · Denton, Texas 76207 · 8322574366

With respect to the work performed, this engine is approved for return to service. I certify this Engine has been inspected IAW a 100 hour inspection and was found to be in Airworthy Condition.

Luis Torrealba A&P 4983307

ractions  
number of  
entries.)

YEAR  
20\_\_  
DATE

RECORDING  
TACH

TODAY'S  
FLIGHT

TOTAL  
TIME IN

Description of Inspections, Tests, Repairs and Alterations

Entries must be endorsed with Name, Rating and Certificate Number of (ies.)

wo: WO\_688

Engine - page 1 of 1



In The Pattern · 926 Aeronca Dr · Denton, Texas 76207 · 8322574366

N62296  
TACH: 2740.77

Lycoming, O-320-D2J, S/N: L-12663-39A  
TTSN: 17738.03 SMOH: 451.63

January 15, 2025

Drained oil and removed oil filter. Serviced with 7 qts Phillips 20W-50 and replaced oil filter with P/N: AA48110-2. IAW Cessna AMM.

With respect to the work performed, this engine is approved for return to service.

Daniel Bettke A&P 4862298

wo: WO\_691

Engine - page 1 of 1



In The Pattern · 926 Aeronca Dr · Denton, Texas 76207 · 8322574366

N62296  
TACH: 2747.94

Lycoming, O-320-D2J, S/N: L-12663-39A  
TTSN: 17745.2 SMOH: 458.8

January 17, 2025

Removed old RH Kelly Aero Magneto SN L-K02122 Model No. ES4371 and replaced with serviceable Kelly Slick Magneto SN L-K02121 Model No. ES4371 from AIRCRAFT MAGNETO SERVICE. Performed ground ops check. Ground ops check good. IAW Lycoming Overhaul Manual.

With respect to the work performed, this engine is approved for return to service.

Matt Themins A&P 4870253

wo: WO\_578

Engine · page 1 of 1



In The Pattern · 926 Aeronca Dr · Denton, Texas 76207 · 8322574366

N62296

Lycoming, O-320-D2J, S/N: L-12663-39A

November 04, 2024

TACH: 2522.05

TTSN: 17519.31

SMOH: 232.91

Drained oil and removed oil filter. Serviced with 7 qts Phillips 20W-50 and replaced oil filter with P/N: AA48110-2. IAW Section 4 of Operators manual.

With respect to the work performed, this engine is approved for return to service.

Luis Torrealba A&amp;P 4983307

 ations  
ber of  
ntries.)

 YEAR  
20  
DATE

wo: WO\_619

Engine · page 1 of 1



In The Pattern · 926 Aeronca Dr · Denton, Texas 76207 · 8322574366

N62296

Lycoming, O-320-D2J, S/N: L-12663-39A

December 04, 2024

TACH: 2625.1

TTSN: 17622.36

SMOH: 335.96

Drained oil from engine and removed oil filter. Serviced with 7 qts Phillips 20W-50 and replaced oil filter with P/N: AA48110-2. Tested, gapped, and rotated sparkplugs. All work performed IAW Section 4 of Lycoming Operator's Manual.

With respect to the work performed, this engine is approved for return to service.

Luis Torrealba A&amp;P 4983307

 ations  
ber of  
entries.)

wo: WO\_590

Engine · page 1 of 1



In The Pattern · 926 Aeronca Dr · Denton, Texas 76207 · 8322574366

N62296

Lycoming, O-320-D2J, S/N: L-12663-39A

November 22, 2024

TACH: 2572.51

TTSN: 17569.77

SMOH: 283.37

1. Performed 100 Hour Engine Inspection IAW Lycoming Maintenance Manual and Far 43 (d) as a guide. Performed engine compression test #1 - 78/80 #2 - 75/80, #3 - 75/80, #4 - 80/80. Drained oil and removed oil filter. Inspected oil filter and screen, no contaminants found. Serviced with 7 qts Phillips 20W-50 and replaced oil filter. Cleaned, gapped, rotated spark plugs. Lubricated engine.
2. Oil dipstick tube was loose. Removed oil dipstick tube, replaced gasket with P/N: SL72059, reinstalled oil dipstick tube and safety wired. IAW MM, reference to figure 13 of Lycoming IPC.

With respect to the work performed, this engine is approved for return to service. I certify this Engine has been inspected IAW a 100 hour inspection and was found to be in Airworthy Condition.

Luis Torrealba A&amp;P 4983307

wo: WO\_640

Engine · page 1 of 1



In The Pattern · 926 Aeronca Dr · Denton, Texas 76207 · 8322574366

N62296

Lycoming, O-320-D2J, S/N: L-12663-39A

December 16, 2024

TACH: 2667.81

TTSN: 17665.07

SMOH: 378.67

Drained oil from engine and removed oil filter. Serviced with 7 qts Phillips 20W-50 and replaced oil filter with P/N: AA48110-2. Tested, gapped, and rotated sparkplugs. Replaced 2 bad sparkplugs with P/N: UREM38E. All work performed IAW Section 4 of Lycoming Operator's Manual.

With respect to the work performed, this engine is approved for return to service.

Luis Torrealba A&amp;P 4983307

YEAR 20 DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
--------------------	---------------------------	-------------------	-----------------------------	--

YEAR 20 DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
--------------------	---------------------------	-------------------	-----------------------------	--

wo: WO\_527

Engine - page 1 of 2



In The Pattern · 926 Aeronca Dr · Denton, Texas 76207 · 8322574366

**N62296**  
**TACH: 2469.54**

**Lycoming, O-320-D2J, S/N: L-12663-39A**  
**TTSN: 17466.8**

**October 17, 2024**

- 1. Performed Annual/100 Hour Engine Inspection IAW Lycoming Maintenance Manual and Far 43 (d) as a guide. Drained oil and removed oil filter. Inspected oil filter and screen, no contaminants found. Serviced with 8 qts Phillips 20W-50 and replaced oil filter. Cleaned, gapped, rotated spark plugs. Lubricated engine controls.*
- Installed new engine PN O-320-D2J SN L-12663-39A and carburetor P/N: MA-4SPA S/N: DC45433 IAW Cessna AMM Section 11-16. Installed. new engine mounts and hardware, mount PN J-9613-49 Installed new magnetos LH magneto PN ES4371 SN L-K02121 and RH magneto PN ES4371 SN L-K0122 IAW Cessna AMM Section 11-52. Installed (4) P/N S1819-3 - CESSNA ROD END, Installed P/N KA14001 - KELLY IGNITION HARNESS, Installed (2) P/N LW-12681 - LYCOMING MAGNETO GASKET, Installed (4) P/N AN7-45A - BOLT, Installed (4) P/N J-9613-49 - ENGINE MOUNT, Installed (8) P/N UREM38E - Spark Plug, Installed P/N SL8313 - Gasket, Vacuum Pump, Installed P/N SL61183 - SUPERIOR GASKET, Installed (4) P/N MS20365-720C - NUT, Installed P/N 73383 - LYCOMING LOCKPLATE, Installed P/N 10-5050A - ALTERNATOR S/N: H-Y060561, Installed (4) P/N 77611 - LYCOMING EXHAUST FLANGE GASKET, Installed (8) P/N STD-475 - LYCOMING WASHER, Installed (4) P/N SL-STD-1410 - SUPERIOR EXHUST NUT, Installed (4) P/N STD-475 - LYCOMING WASHER, Installed (28) P/N AN526C832R8 - SCREW, Installed (6) P/N 22563-50 -

wo: WO\_527

Engine - page 2 of 2



In The Pattern · 926 Aeronca Dr · Denton, Texas 76207 · 8322574366

COMMERCIAL SS 832 STOP NUT, Installed (7) P/N SL-STD-1925 - SUPERIOR ROCKER BOX COVER SCREWS, Installed P/N 8000075 - OIL COOLER S/N: 14899, Installed P/N 124F001-8CR0272 - OIL COOLER LINE, Installed P/N 124f001-8CR0306 - OIL COOLER LINE, Installed P/N 124F001-8CR0184 - FUEL STRAINER HOSE, Installed P/N 124F001-3CR0170 - OIL PRESSURE HOSE, Installed P/N MCS1230-17 - CARBURETOR HEAT CONTROL, Installed P/N MC600-72 - MIXTURE CONTROL, Installed P/N MC600-72 - MIXTURE CONTROL, Installed P/N MC9863056-3 - THROTTLE, Installed P/N MCS1104-3 - MCFARLANE ROD END, Installed P/N S2282-2 - DUCT, Installed P/N 37A19773-367 - LYCOMING ALTERNATOR DRIVE BELT, Installed P/N MS21919-WDG23 - CLAMP, Installed P/N 0412007-1 - STRAP, Installed (6) P/N MS21919-WDG11 - CLAMP, Installed P/N ES4371 - KELLY AERO MAGNETO, Installed P/N ES4371 - KELLY AERO MAGNETO, Installed P/N 10-1009 - Bolt Sapcer, Installed P/N S2106-1 - FUEL VALVE, Installed P/N AN816-8D - AN FITTINGS NIPPLE, Installed (2) P/N MS21919-WDG13 - CLAMP, Installed (2) P/N MS21919-WDG8 - CLAMP.

With respect to the work performed, this engine is approved for return to service. I certify this Engine has been inspected IAW a Annual/100 hour inspection and was found to be in Airworthy Condition.

Kyle Welge A&P I/A 3865337

YEAR 20 DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
--------------------	---------------------------	-------------------	-----------------------------	---

**Custom Composites, LLC**

8921 Bellechase Rd. Granbury, TX 76049 Cell: 214.205.7088

Date: 11/29/2023 Cessna 172N N73784 S/N 17267676

Tach: 2432.6 Hobbs: 237.2

Lycoming O-320-D2J S/N L-12663-39A

Performed 100 Hour Engine Inspection I/A/W Lycoming Direct Drive  
Maintenance Manual and Scope and detail of AC43.13(d) as applicable.

Differential Compression Check performed as follows:

#1: 75/80, #2: 78/80, #3: 78/80, #4: 77/80.

Drained oil. Removed filter, examined for contaminants, none found.

Pulled oil intake finger strainer and inspected for contaminants. All O.K.

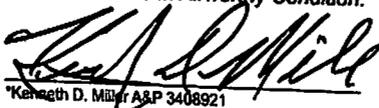
Serviced with 7 quarts Phillips Victory 20W50. Filter replaced with

CH48110-1. Cleaned and gapped spark plugs.

All engine controls were checked for proper travel and lubricated.

Runup and Leak Check O.K.

*\*I certify this Engine has been inspected I/A/W a 100 Hour Inspection and  
was found to be in Airworthy Condition.*

  
\*Kenneth D. Miller A&P 3408921

YEAR  
20  
DATE

Date: 09/30/2024 Hours: TTSMOH: 180.4 TTSR: 0.0

Tail#:

Make: Lycoming

Model: O-320-D2J

S/N: L-12663-39A

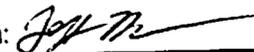
**Ins and Alterations**  
Certificate Number of  
other specific entries.)

This engine was disassembled, cleaned, inspected and reassembled as necessary  
after a prop strike per Lycoming SB 533C, SB 465C, and Lycoming Direct Drive  
Overhaul Manual. Crankshaft inspected by Poplar Grove Airmotive, INC. W/O  
105062-1. Assembled engine using new Crankshaft main bearing SL13884 MO6,  
SL11020 MO6, and new Rod Journal bearings SL61662A. Installed new rod bolts  
SL78027, and nuts SL61662A per SI1458G.

Name: Jeff Baughman

Cert: AP / IA 3384734

Co: Baughman Aviation

Sign: 

YEAR 20 DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE
--------------------	---------------------------	-------------------	-----------------------------

**Description of Inspections, Tests, Repairs and Alterations**  
 Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)

wo: WO\_23 Annual Engine - page 1 of 1



In The Pattern - 926 Aeronca Drive - DENTON, TX 76207 - 832-257-4366

**N73784** **October 02, 2023**  
 HOBBS: 5.8 TACH: 2258.2

1. Performed Annual/100 Hour Engine Inspection IAW Lycoming Maintenance Manual and Far 43 (d) as a guide. Performed engine compression test #1 - 78/80 #2 - 77/80, #3 - 78/80, #4 - 76/80. Drained oil and removed oil filter. Inspected oil filter and screen, no contaminants found. Serviced with 8 qts Phillips 20W-50 and replaced oil filter. Cleaned, gapped, rotated spark plugs. Lubricated engine controls. Installed P/N AA48110-2 - Tempest Spin-On Filter, Installed (8) P/N 20W-50XC - Phillips Mobil Oil.
2. Removed Engine P/N: O-320-D2G S/N: L-10552-39A. Installed Engine P/N: O-320-D2J S/N: L-12673-39A IAW RAM STC# SA2375SW. Performed engine break in procedures IAW Lycoming SI 1427C. OPS CHECK GOOD.

I certify this Engine has been inspected IAW an Annual inspection and was found to be in Airworthy Condition Details of work performed are on file with In The Pattern under work order: WO\_23.

Kyle Welge A&P I/A 3865337

wo: WO\_43



100 Hour Engine - page 1 of 1

In The Pattern - 926 Aeronca Drive - DENTON, TX 76207 - 832-257-4366

**N73784** **October 24, 2023**  
 HOBBS: 113.9 TACH: 2339.6

Performed 100 Hour Engine Inspection IAW Lycoming Maintenance Manual and Far 43 (d) as a guide. Performed engine compression test #1 - 78/80 #2 - 80/80, #3 - 77/80, #4 - 79/80. Drained oil and removed oil filter. Inspected oil filter and screen, no contaminants found. Serviced with 7 qts Phillips 20W-50 and replaced oil filter. Cleaned, gapped, rotated spark plugs. Lubricated engine controls. Installed (7) P/N 20W-50XC - Phillips Mobil Oil, Installed P/N 06E19769-1.00 - CRUSH GASKET, Installed P/N AA48110-2 - TEMPEST OIL FILTER, Installed (7) P/N 20w50 - Phillips Oil.

I certify this Engine has been inspected IAW a 100 hour inspection and was found to be in Airworthy Condition Details of work performed are on file with In The Pattern under work order: WO\_43.

*Blinn Carl Leonard* 3843041 AP

ations  
ber of  
entries.)





Phone: 815.544.2300 800.397.8181 LIMITED AIRCRAFT ENGINE WARRANTY FAX: 815.544.8900

**Poplar Grove Airmotive, Inc. (PGA)** limits its warranty on the listed engine overhauled by PGA to be free from defects in material and workmanship under normal use and service for a period of two years or 500 hours, whichever occurs first from the completion date of the overhaul. All accessories overhauled by PGA are warranted for 250 hours of operation or one year, whichever event shall occur first.

Any engine, cylinder or component Repair not associated with a major engine overhaul is warranted to be free from defects in material and workmanship for six months.

The obligation of the Company under this warranty is limited to the repair or replacement, at the option of PGA, of any part, component or engine, which, in the opinion of PGA is defective. PGA assumes no obligation for work accomplished at a facility other than PGA unless prior notification is given and the owner receives authority from PGA to proceed. PGA additionally reserves the right to furnish any parts and/or components required. If requested by PGA, owner must return all warranted parts, transportation prepaid, to PGA for examination.

Warranty is not applicable to routine maintenance, inspection or adjustments. Replacement or repair of an engine component or accessory will not be construed to extend the initial warranty period.

This warranty shall not apply to engines, their component parts or accessories which have been improperly installed, adjusted, stored, handled, repaired, altered or operated contrary to current manufacturer's recommendations of FAA Airworthiness Directives, or subjected to misuse, neglect, accident, pre-ignition, detonation, hydrostatic lock or corrosion.

PGA does not warrant accessories, such as factory-remanufactured magnetos, carburetors, starters, etc. supplied by a vendor other than PGA when that vendor has its own warranty.

No express warranties and no implied warranties, whether of merchantability or fitness for any particular use, or otherwise (except to title) other than that expressly set forth above, which is made expressly in lieu of all other warranties, shall apply to products sold by PGA.

This warranty and this PGA's obligation thereunder is in lieu of all other warranties, expressed or implied, including warranties of merchantability and fitness for a particular purpose, and all other obligations or liabilities, including consequential damages or contingent liabilities arising out of the failure of any engine or part to operate properly, and no person is authorized to give any other warranty or to assume any additional obligation on PGA's behalf unless made in writing and signed by an officer of PGA.

Date 19 Jun. 2023 Model Lyc. B-320-D2J S/N L-12663-39A WO# 105062

**POPLAR GROVE AIRMOTIVE, INC.**  
**CRS YYBR664L**  
**SUGGESTED BREAK-IN PROCEDURES**

After starting the engine, ensure a normal warm up, but avoid prolonged ground running. Follow the airframe manufacturer's recommendations for takeoff power. When possible, reduce power to the climb power setting specified in the operator's manual. Establish a shallow climb angle to ensure good air speed for proper cooling. Use more cowl flaps than normal or step climb to help in this process. Adjust mixture per aircraft operating handbook. Excessive heat is the primary cause of cylinder bore glazing. Make every effort to keep your operating temperature well into the green arc.

If the engine is normally aspirated (non-turbocharged) it will be necessary to cruise at a low altitude to obtain the required cruise power levels. We recommend a density altitude less than 5,000 feet to allow the engine to develop sufficient cruise power for a good break-in.

For proper break-in/piston ring seating, operate the engine at 65-75% power during cruise while keeping engine temperatures well in the green arc. Maintain these power settings until oil consumption stabilizes, this will minimize the chance of glazing the cylinder bores. Glazing cylinder bores require cylinder removal, honing, and installing new piston rings. **Poplar Grove Airmotive does not warranty this condition.**

Descend at low cruise power while closely monitoring the engine instruments. Avoid long descents at low manifold pressure and rapid descents, as this will cause the engine to cool too rapidly.

There is only one object to be accomplished during the break-in: the stabilization of oil consumption. Record all oil additions and flight hours in such a manner that quart per hour of flight is known. During this portion of the break-in, which could range 25 to 100 hours, mineral oil **must be** used in the engine. Change oil and inspect filter after approximately 10 hours – then 35 hours – then per your normal schedule, however, do not use AD (ashless dispersant) oil until consumption stabilizes.

**Engine Oil Recommendation For Piston Ring Seating**

Aero Shell 100	SAE 50	Above 60 degrees F
Aero Shell 80	SAE 40	30 degrees – 90 degrees F
Aero Shell 65	SAE 30	0 degrees – 70 degrees F
Phillips 20W-50	Type M	All Season
Phillips 20W-50	XC	Nickel Cylinders

Use mineral based AD oils only after break-in – NO synthetics