

N168DP

1968 Piper Cherokee 180D

Engine Logbook SMOH 2016 - 2025

MSN: 28-4402



RidgeAire
WORLDWIDE
aviation specialists

Prepared by the worldwide aviation specialists at RidgeAire, Inc.

N 168 DP



The Standard

ENGINE LOG

AM-133

Engine Record General Information

Manufacturer LYCOMING
Serial L-11686-36A

Model O-360-A4A

Type Certificate

This engine is currently installed in aircraft: PA 28-180 N549L N168DP

Minimum Octane Fuel 90-100

Oil Grade Summer _____ Winter _____

Magneto Time 25° BTDC

Point Setting _____ Firing Order _____

Spark Plug Gap 16-19

Manufacturer's Recommended Overhaul at 2000 hours

YEAR 20 <u>16</u> 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.)
3/25	3612.70			

Tach: 3612.70

SMDH: 0.00 (04-06-2016)

TSN: 3612.70

Engine removed for Overhaul. Engine Disassembled IAW Lycoming Service Manual. All parts inspected during disassembly. Engine Case was sent to DIVCO Cleaned and Inspected Repaired at Upper & Lower Rear #2 Cylinder See 8130-3, DIV WDC # 116109, and Invoice 113485 Dated 01 Feb 2016.

The Following parts were replaced or Overhauled as stated on 8130-3. Work was performed at Aircraft Specialties of Tulsa Ok. FAA repair Station DD2R764K.

Lycoming Crankshaft D-360-A4A S/N V53791382. See 8130-3 Dated 10 Feb 2016 ASI-060359 W/D 234742. Crank Mains to M006 Rods to M.003 C/W SB475C. Lifters Body's Overhauled (8) P/N 72877 See 8130-3 Dated 10 Feb 2016. Hydraulic Units P/N 78290 were Overhauled. Internal Steel Gears were inspected by Magnafluxed. See 8130-3 Dated 10 Feb 2016. Crank Gear was replaced with New P/N 75072. Camshaft was replaced with P/N 76097 with a repaired unit W/D 234742 See 8130-3 Dated 10 Feb 2016.

(Continued next page)



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.)
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The following parts were replaced at Overhaul.

8 Ea Hydraulic Pushrod Sockets 8Ea Lifter Bodies P/N 72877 S/N ASR1956 8 Ea Hydraulic Units
 1 Ea Lycoming Crankshaft O-360-A4A S/N V53791382. See 8130-3 Dated 10 Feb 2016 ASI-060359 W/D 234742
 1Ea Camshaft was replaced with P/N 76097 with a repaired unit W/D 234742 See 8130-3 Dated 10 Feb 2016.

4 Ea Connecting Rods New AEL11750-S Crank Gear AEL19646 Crank Bolt Retaining SL2213 (12-19-14) C/W AD 95-07-01
 4 Drain Hose SL-STD-1821 Main Bearing Front SL13884A M06 (12-09-15) Main Bearing Center Rear SL11020 M06 (10-14-15)
 Ring MS1662502981 Screws SL-STD-2213 C/WAD 2004-10-14C Oil Check Ball SL12186 (02-08-14)
 Oil Pressure Spring SL61084 (10-01-15) Main Bearings 4 Ea SL13884A M06
 Rod Bearings SL13521A M03 (03-18-16) Forward Thrust 2 Ea SL13884A M06 (12-09-15)
 4 Ea Induction Hose SL69603 (11-19-15) Major Gasket Set SL75439-1 (12-08-15)
 Oil Pump Kit SL78528 Kit Rev E (08-17-15) C/W AD 75-08-09R3 Oil Pump Shaft With Flats SL61174A-5 (06-27-15)
 Oil Pump Gear SL18109A Rev L (08-27-15) Pistons AEL75089 STD 1266-1267
 Tach Drive P/N SL76121 Fuel Pump New AS-15472 S/N080M15
 Slick Magneto Kit K4517 & Ign Harness 8 Ea REM40E Spark Plugs

Cylinders Overhauled at Bolduc Aviation See yellow tags dated 02-16-2016 **NO USE OF AUTO FUEL PERMITTED**

Engine assembled IAW Lycoming Direct Drive Manual.


 Mark Yankovich A6P 2742718 IA

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YEAR 20 <u>16</u> 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.)
4-30	3612.1		3612.1	1 Small Engine REINSTALLED ON N168DP 1 WS TIME + DATE SERVICED WITH 80FS AEROSHELL 100MINERAL OIL - Ground Run, LEAK + PS CHECKED OK FOR RETURN TO SERVICE J. SAPS918/6573
7/4	3627.0			oil and filter change check filter for metal none found, Refill with aeroshell 100W50
9/1/16				Dynamic balanced engine / propeller in accordance with Chadwick Helmutz smooth propeller AW-9511-2 & AC43.13. Final balance .06 IPS. Mikhail Krubgator AP3332072

YEAR 20 16 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.)
9-1-16	Tach 3641	SMOH 29h		Performed annual inspection on engine. Compression 1. 75/80 2. 78/80 3. 75/80 4. 78/80. checked magnets to engine timing. Run up engine - No oil leaks. Oil & filter not changed at this time. I certify this engine is airworthy for return to service on this date & time. Leon J Baker NRP 3641868 IA
8/17/17	Tach 3659	SMOH	77 Hrs	Drained oil and replaced oil filter serviced engine with 7QT meroshell 4100 and installed and shw CH48110 oil filter. Also replaced B3-5-1 center filter with new. Ran A/c for leaks none found. & returned this aircraft back for service Mmmmm C Snyder P 937335 BT

3-22-2019
N 168 DP
Tach 249.50
WO# 8527

Removed ATSOA xpnder ser# 27012. Installed serviceable GTX 327 xpnder ser# 83723493. Installed in same location as removed unit. Ran new RG-400 coax. Removed Nav and strobe light from LH wingtip. Installed U-Avionix Skybeacon PN UAV-1001856-002 SN 1000439 at same location as removed lights. Sky beacon installed IAW STC# SA04362CH using install manual PN UAV-1002305-001 Rev D dated March 21, 2019. Post OP's check good. AFM 5 and ICA's given to customer. Form 337 completed. W & B not changed (negligable).

Air One Systems
OECR 893K
David Espinosa

Turn to next Pg



SSID: Beacon-38DD

Pass: AirshipCockpit

ATC TRANSPONDER TESTS REQUIRED BY FAR
91.413 WERE PERFORMED AND COMPLY WITH FAR
43, APP.F, ON MODEL GTX327 S/N
27012 CORRESPONDENCE CHECK REF.
91.217 N 168DP. DETAILS ON THIS
INSPECTION ON FILE UNDER THIS REPAIR STATION
ON W/O 8527.

Dr. Espinosa
SIGNATURE

DATE

FAA

CRS OECR 893K

3-22-2019

REQUIREMENTS OF FAR 23.1325, FAR 91.217, FAR 91.411, and FAR 91.413 have been accomplished as follows:

(a) Removed Transponder Manufacture NARCO,
Model AT-50A Serial number 26671 from
aircraft. Transponder certified IAW FAR 43 APPENDIX
F. Reinstalled Transponder.

(b) Removed Altimeter Manufacture MacLeod,
Model 13503 Serial number 1658 from
aircraft. Altimeter certified to 20000 feet IAW
FAR 43 APPENDIX E. Reinstalled Altimeter.

(c) Performed correspondence check to 20000 for
encoder Manufacturer TCI, Model SSD100-KXA,
Serial number A-12406 IAW FAR 43 APPENDIX E.

(d) STATIC SYSTEM CERTIFIED AS PER FAR 23.1325.

①

RECORDING
TACH
TIME

FLIGHT

TIME IN
SERVICE

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

3824.9

Lycoming O-360-A4A S/N: L-11686-36A

TSMOH: 212.2 hrs

Performed annual engine inspection IAW FAR 43 Appendix D

Checked cylinder compression (77, 78, 78, 76). cleaned and checked spark plug gap. Changed oil and installed new oil filter. Inspected induction and exhaust systems.

Verified compliance with all applicable AD's through Biweekly 2021-04. I certify this engine airworthy and approve it for return to service.

 3087097 IA

Nicholas Voss

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.)
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Sierra Golf Aviation LLC
808-348-8631






Date: Oct 8, 2021 N168DP Total: 3844.9 Tach: 3844.9

Removed Old Alternator Part # 2642997, Serial # A145154
Installed New Alternator Part # 2642997, Serial # 12332, W/O 1489
I.A.W. Piper Maintenance Manual. Ops Check Good. 10/8/2021

A&P: 4103856 IA L Scott Meeks *L Scott Meeks*

2/19/2022	3864.4			Lycoming O-360-A4A S/N: L-11686-36A
	TSMOH :	251.7		Performed annual engine inspection IAW FAR 43 Appendix D.
				Checked cylinder compression, all within limits. Cleaned
				and checked spark plug gap. Changed oil with Aerushell US80
				and installed new oil filter. Inspected induction and exhaust
				systems. Verified compliance with all applicable AD's through
				biweekly 2022-04. I certify this engine airworthy.
				<i>Nicholas Voss</i> A&P IA 3087097

YEAR 20 <u>23</u> 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.)
2/20/23	3709.5			<p data-bbox="840 235 1743 305">Lycoming O-360-A4A S/N: L-11686-36A</p> <p data-bbox="840 313 2058 736">Performed an annual inspection in accordance with FAR part 43 appendix D. Cylinder compression check (#1-78, #2-77, #3-77, #4-75) cleaned and checked spark plug gaps. Changed oil with Amsoil 480 and changed oil filter. Verified all applicable AD's through biweekly 2023-04. I certify this engine airworthy and return it to service.</p> <p data-bbox="1260 744 1764 878">  Nicholas Voss A&P IA 3087097 </p>
2, Sept 2023	3909.8 Tech			<p data-bbox="840 972 1974 1042">Lycoming O-360-A4A S/N: L-11686-36A N168DP</p> <p data-bbox="840 1050 2058 1324">As part of a pre-buy inspection, removed spark plugs inspected gaps and reinstalled. Performed cylinder compression checks (#1-76, #2-75, #3-75, #4-74) Verified all AD's are current. I certify this engine as airworthy.</p> <p data-bbox="997 1332 1596 1473">  Nicholas Voss A&P IA 3087097 </p>
	TSMO: 296.8			

YEAR 2023 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.)
9/4/2023	Tech 3909.8			Lycoring O-360-A4A S/N: L-11686-36A N168DP
	TSMo: 297.1			Performed an annual inspection IAW FAR 43 Appendix D.
				Cylinder compression checks and AD compliance performed
				on 9/2/23 (see previous entry). Changed oil with 7qts
				Acrosshell W80 and changed filter with new CH48110-1.
				Verified Mag timing. Inspected induction and exhaust systems.
				I certify this engine airworthy and return it to service.
				 Nicholas Voss A&P IA 3087097

DYSON AVIATION 1902 Airport Road, Athens, Texas 75752 903-681-3294

Date: 11-21-23 N168DP Tach: 3955.6 TT: 3955.6 SOH: 342.9

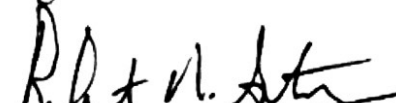
Engine low on power at full throttle, but power increases when mixture is leaned. Checked primer and primer was in and locked. Checked carb heat flapper valve for full closure and carb butterfly valve for full opening at full throttle and no problems found. Inspected engine for air leaks in induction system and none found. Removed carburetor, Marvel Schebler MA-4-5, p/n 10-3878, s/n MS0AC502. Removed bowl, checked float height and found to be in limits. Checked accelerator pump check valve and no problems found. Inspected mixture valve and no problems found. Reinstalled bowl on carburetor and reinstalled carburetor. Checked magneto timing. Found right mag 21 BTC and left 25 BTC. Adjusted right mag to 25 BTC. Ground run aircraft and no problems or leaks found.


Robert N. Strong A&P, 1796004

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.)
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DYSON AVIATION 1902 Airport Road, Athens, Texas 75752 903-681-3294

Date: 02-20-24 N168DP Tach: 3989.0 TT: 3989.0 SOH: 376.3
 Removed alternator p/n 2642997, s/n 12332. Installed overhauled serviceable alternator p/n 4111810, s/n H-Y011285 with a new belt. Aircraft ground run and function checked "OK".


 Robert N. Strong A&P, 1796004

wo: WO_1205

Engine - page 1 of 1



First Line Aero, LLC · 458 CR 1618 · Rusk, TX 75785 · 903-316-8331

N168DP
TACH: 3992.4

LYCOMING, O&VO-360 SER, S/N: ENGINE SN TBD

March 15, 2024

1. Pirep: Aircraft does not make full RPM. Performed ground runs and checked static ops. Prop does not make static rpm spec. Removed prop for overhaul. - Andrew T.
2. Installed overhauled prop on engine. Performed engine runs and checked static ops. Ops normal. Re-installed spinner and upper engine cowl. - Andrew T.

Work performed IRW Piper and Lycoming MM's where applicable. Operational and leak check performed, no defects noted at this time. With respect to the work performed, this engine is approved for return to service.

Andrew Trampus A&P 4896008



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.)
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DYSON AVIATION 1902 Airport Road, Athens, Texas 75752 903-681-3294

Date: 04-13-24 N168DP Tach: 4,036.0 TT: 4,036.0 SOH: 423.3

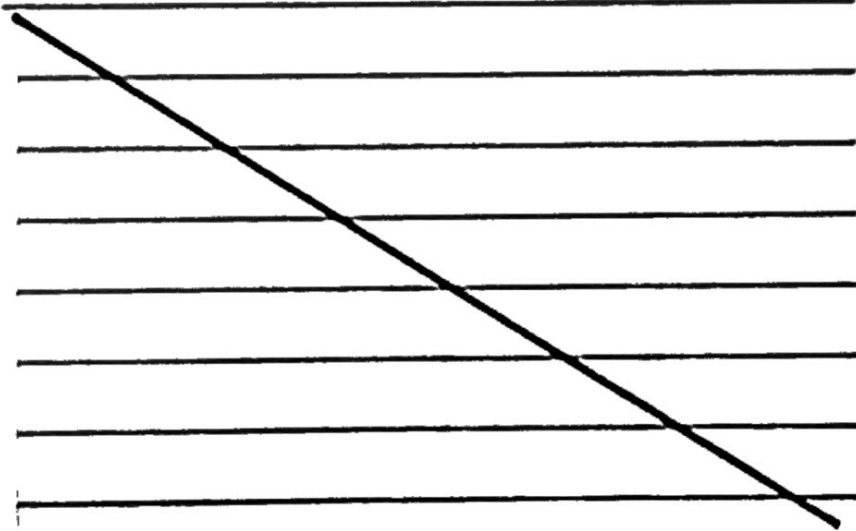
Cleaned, inspected, and serviced engine in accordance with Lycoming service instructions and FAR 43 appendix "D" for 100 hour inspection. Repaired all deficiencies found on the inspection. Removed, cleaned, and tested all sparkplugs. Compression check: #1-76, #2-79, #3-78, & #4-76 all over 80 PSI. Checked and set magneto timing to 25 degs. BTDC. AD2004-10-14 complied with by visual inspection, there is no evidence of a prop strike or sudden stoppage at this time. Changed oil and oil filter, AA48110-2 and 7 quarts Aeroshell W100. All work done in accordance with manufacturer's specifications. Engine ground run, and leak checked O.K. Engine, Lycoming O-360-A4A, s/n L-11686-36A, was determined to be in an airworthy condition.

Robert N. Strong
Robert N. Strong A&P, 1796004

DATE: 04-13-24 N168DP TACH: 4,036.0
TT: 4,036.0 SOH: 423.3

I certify that this Lycoming O-360-A4A has been inspected in accordance with 100 hour inspection and was determined to be in airworthy condition.

Edwin J. Torbett
Edwin J. Torbett, A&P 1683359 IA



YEAR
20
DATE

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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.)

Date: 10/10/2024 Hours: Tach 4127.0

Tail#: N168DP

Make: Lycoming

Model: O-360-A4A

S/N: L-11686-36A

Engine disassembled and cleaned. Replaced camshaft with new SL18840 and tappets with new SL72877. Installed new seals. Reinstalled crankshaft and re assembled crankcase. Installed new shaft seal. Removed and inspected oil pump, no defects noted and reassembled. Reinstalled all cylinders with new piston pin caps pn 72198 and new seals and gaskets. Set dry tappet clearances. Installed new vacuum pump and tach shaft seals. Installed new intake hoses. Replaced one oil drain back tube and replaced hoses. All new seals and gaskets used where needed. I certify that this engine has been reassembled using Lycoming Maintenance Manual and Torque Specifications.

Name: Robert Gloris

Co: Lakeview Aviation

Cert: AP3503187

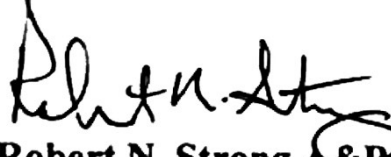
Sign: 

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.)
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DYSON AVIATION 1902 Airport Road, Athens, Texas 75752 903-681-3294

Date: 09/17/2024 N168DP Tach: 4127.0 TT: 4127.0 SOH: 514.3

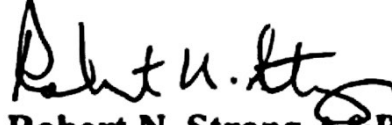
Engine has low power and is hard to start. Troubleshoot and found #4 cylinder exhaust not opening fully. Removed #4 cylinder and found camshaft lobe rounded. Removed engine for repair.


Robert N. Strong A&P, 1796004

DYSON AVIATION 1902 Airport Road, Athens, Texas 75752 903-681-3294

Date: 10/21/2024 N168DP Tach: 4127.0 TT: 4127.0 SOH: 514.3 TSR: -0-

Installed engine after IRAN by Lakeview Aviation with original engine mounts. Reinstalled both magnetos and timed to 25 deg btc. Reinstalled carburetor, starter, alternator, propellor, exhaust system and vacuum pump. Removed oil cooler and flushed. Reinstalled oil cooler. Installed new Bracket BA-3 air filter element. Installed new Tempest AA48110-2 oil filter and 7 quarts Phillips Victory 100AW oil. Reinstalled sparkplugs. Aircraft was ground run. Function checked and leaked check good.


Robert N. Strong A&P, 1796004

PO: 483749 LOT: 30-17435



320270382

P/N: 18-32382

LOC: 19BF W05D

ASA ENGINE LOG, HARDCOVER