

MANUFACTURER Lycoming MODEL O320 E2A

ENGINE IS CURRENTLY INSTALLED IN AIRCRAFT N 9746W TYPE CERTIFICATE _____

JM OCTANE FUEL _____ OIL GRADE SUMMER _____ WINTER _____

TO TIME _____ POINT SETTING _____ FIRING ORDER _____

DATE 2011	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
5-1-2004	881.13		2738.09	Replaced points, capacitors, seals, distributor gears, and distributor blocks and lubricated bearings and set internal timing on both mags. c/w AD 96-12-07 By installing new snap ring impulse cam. c/w AD 82-20-01 By inspection of flyweights. c/w AD 94-06-09 By installing new capacitors. c/w AD 69-24-03 By clean & drain Carb Bowl. c/w AD 72-06-05 R2 INSPECTED CARB Arm and Attachment. c/w AD 98-01-06 By installing one piece Venturi. c/w AD 93-19-04 checked Float Date (7-84).
				Blum / Row AIP 413551501

gears and shaft and drilled oil hole
per SI 1341.

Glen J Rowland
AIP 413-55-1501

19__	TIME	FLIGHT	SERVICE
5/1/2004			C/W Annual Inspection on this engine AND FOUND AIRWORTHY CONDITION. I RETURN THIS ENGINE BACK TO SERVICE. GROUND RAN SATISFACTORY NO OIL LEAKS AT THIS TIME. <i>Paul K. Jenkins AIP FA 303644020</i>
881.13 tach			
2738.09 total			
TSMOH 0.0			
6-27-2004			Changed Engine Oil and Filter. 8 QTS 900.03 tach Aero Shell 100 straight mineral and Champion 2756.99 ACTT Filter. <i>Glen J Rowland AIP 413551501</i>

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DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS

07-03-2005 N9746W TACH 946.4 TSMO 65.3 ETT 2803.3

Completed annual inspection using app. D and the Piper service manual as a guide. Cleaned and gapped plugs. Changed oil and filter cleaned suction screen. Cylinder compression test all above 74/80. Ground run satisfactory, no leaks noted.

Checked condition and security of propeller, spinner and back plates.

I certify this engine has been inspected in accordance with an annual inspection and was determined to be in airworthy condition,
Francis X Balzer AP 186440476 IA

Francis X. Balzer

19	TIME	FLIGHT	SERVICE	MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
09-08-06		TACH	985.2	TSMO 104.1 ETT 2842.1
				cleaned And Regapped spark plugs.
				changed Oil and Filter Cleaned suction
				Screen. Checked Mag Timing. Checked
				Compression Found All cylinders Above
				74/80. Engine Ground Run And Leak
				check Good.
				<i>Glen Howland</i>
				AP 413551501 IA

19	TIME	FLIGHT	SERVICE	MECHANIC OR REPAIR	ENTRIES
09-08-06			Tach	985.2	TSMO 104.1 ETT 2842.1
I certify that this Engine Has BEEN Inspected IN Accordance with AN Annual Inspection And Was Determined To Be IN Airworthy Condition. <i>Glen J Rowland</i> A#P 413551501 IA					

19	TIME	FLIGHT	SERVICE	MECHANIC OR REPAIR	ENTRIES
5-23-08					
TACH	1025.12				
ACTT	2882.02				
TSMO	143.93				
ETT	2882.02				
Cleaned & Regapped spark plugs. checked Mag Timing. checked Compression - All cyls Above 74/80. changed Oil And Filter. Ground Run Leak CK Good. I certify that This Engine Has BEEN Inspected IN Accordance with AN Annual Inspection And Was Determined To Be IN Airworthy Condition. <i>Glen J Rowland</i> A#P 413551501 IA					

19	TIME	FLIGHT	SERVICE	MECHANIC OR REPAIR	ENTRIES
02-15-09					
TACH	1050.38				
ACTT	2907.28				
TSMO	169.19				
ETT	2907.28				
Cleaned & Gapped Spark Plugs. checked Mag Timing. checked Compression - All cyls Above 74/80. Ground Run Leak check Good. I certify that This Engine Has BEEN Inspected IN Accordance with AN Annual Inspection And Was Determined To Be IN Airworthy Condition. <i>Glen J Rowland</i> A#P 413551501 IA					

19	TIME	FLIGHT	SERVICE	MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
10-28-11				Cleaned & Gapped Spark Plugs. Checked
TACH	1054.	00		Mag Timing. Checked Compression.
ACTT	2910.	90		All Cyls Above 74/80. Ground Run
TSMO	172.	81		Leak Check Good
ETT	2910.	90		
				I certify That This Engine Has
				Been Inspected In Accordance With
				An Annual Inspection And Was
				Determined To Be In Airworthy Condition.
				<i>Glenn J Rowland</i>
				A#P 413551501 IA

19	TACH TIME	TODAYS FLIGHT	TIME IN SERVICE	ENTRIES MUST BE ENDORSED WITH NAME, ADDRESS AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
6-6-14				Cleaned & Gapped Spark Plugs. Checked
TACH	1079.	72		Mag Timing. Ground Run & Leak Check
ACTT	2936.	62		Good.
TSMO	198.	53		
ETT	2936.	62		
				I certify That This Engine Has
				Been Inspected In Accordance With
				An Annual Inspection And Was
				Determined To Be In Airworthy Condition
				<i>Glenn J Rowland</i>
				A#P 413551501 IA

19	TACH TIME	FLIGHT	SERVICE	MECHANIC OR REPAIR FACILITY (SEE SECTION 1)
12-	17-	14		cleaned & Gapped Spark Plugs.
Tach	1085	61		checked Mag Timing. changed
Actt	2942	51		Oil And Filter. Ground Run
TSMO	204	42		And Leak check Good.
ETT	2942	51		
				I certify That This Engine Has
				Been Inspected In Accordance with
				An Annual Inspection And Was
				Determined To Be In Airworthy Condition
				<i>Glen J Rowle</i> ATP 413551501 IA

19	TACH TIME	FLIGHT	SERVICE	MECHANIC OR REPAIR FACILITY (SEE SECTION 1)
5	-1-	17		Cleaned And Lubricated Engine
Tach	1088	98		controls. Cleaned And Gapped
ACTT	2945	88		Spark Plugs. checked Mag
TSMO	207	90		Timing. Ground Run and Leak
ETT	2945	88		check Good.
				I certify That This Engine Has
				Been Inspected In Accordance with
				An Annual Inspection And Was Determined
				To Be In Airworthy Condition.
				<i>Glen J Rowle</i> ATP 413551501 IA

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Anderson Aircraft Services
282 Airport Rd
Anderson, IN 46017

N9746W 05/22/2017 Tach: 1090.72 SMOH: 209.64

Performed compression check: (#1) 74/80, (#2) 72/80, (#3) 73/80, (#4) 74/80.

S. Keith Givens

S Keith Givens

AP304847863IA

N9746W 6-6-2017 TACH 1091.1 SMOH 210.02
CHANGED OIL AND FILTER

19	TACH TIME	TODAY'S FLIGHT	TIME IN SERVICE	MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SERVICE PROVIDERS)
8-12-2017				CHANGED OIL AND FILTER - SAMPLED OIL
TACH 1101.00				REPLACED WITH AEROSHELL 15W 50
ACTT 2957.9				AND TEMPEST FILTER AA48110-2
TSMO 219.92				GROUND RUN AND LEAK CHECK - GOOD.
ETT 2957.9				<i>Butt Ohm</i> PRIVATE PILOT 3934627
8-19-17				
TACH 1104.15				REPLACED SPARK PLUGS WITH
ACTT 2961.05				NEW TEMPEST UREM 40E
TSMO 223.07				PER MANUAL, GROUND RUN - MAGNETO CHECK
ETT 2961.05				<i>Butt Ohm</i>
				PRIVATE PILOT 3934627

19	TACH TIME	TODAY'S FLIGHT	TIME IN SERVICE	MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SERVICE PROVIDERS)
11-30-2017				CHANGED OIL AND FILTER - SAMPLE
TACH 1126.2				REPLACED WITH AEROSHELL 15W-50
ACTT 2982.9				TEMPEST AA48110-2 FILTER
TSMO 244.92				GROUND RUN AND LEAK CHECK - GOOD.
ETT 2982.9				<i>Butt M. Ohm</i> PVT PILOT 3934627

Annual Inspection / Powerplant**05-26-2018 / 1136.0 Tach / Lycoming O-320-E2A L-19052-27A****Engine SMOH- 254.9 TT- 2992.9**

Inspection Completed per FAR 43 Appendix D- performed the following service work:

Compression Test #1- 78/80 #2- 77/80 #3- 77/80 #4- 78/80

Checked mag timing, both set at 25°BTC

Oil & Filter recently changed by owner

Lubed engine controls - LPS

Spark plugs recently replaced by owner

Checked Airworthiness Directives through 2018-11 on engine, prop, and accessories - none due

AD2017-16-11 Rod Bushings is NA - No parts replaced from Table 2 of Lyc. MSB 632B

Run up & Operational Checks - OK

I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IAW AN

ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION

ISAAC DETERS A&P 2714038 IA

7-24-2018		CHANGED OIL AND FILTER
TACH 1152.6		REPLACED WITH AEROSHELL 15W50
ACTT 3009.3		CHAMPION 48110-1 FILTER
TSMO 271.3		GROUND RUN AND LEAK CHECK GOOD
ETT 3009.3		Brett M. Johnson PVT PILOT 3934627
01-11-2019	1178.5	CHANGED OIL & FILTER SHELL 15W50 / CH48110-1
ACTT 3035.2		Ops & Leak ✓ - OK
TSMO 297.2		
ETT 3035.2		Brett M. Johnson PVT PILOT 3934627
TACH 1178.5		

DATE

19

Annual Inspection / Powerplant**07-12-2019 / 1200.0 Tach / Lycoming O-320-E2A L-19052-27A****Engine SMOH- 318.9 TT- 3056.9**

Inspection Completed per FAR 43 Appendix D- performed the following service work:

Compression Test #1- 72/80 #2- 70/80 #3- 71/80 #4- 71/80

Checked mag timing, both set at 25°BTC

Oil & Filter recently changed by owner

Lubed engine controls - LPS

Serviced Sparkplugs

Checked Airworthiness Directives through 2019-14 on engine, prop, and accessories - none due

Run up & Operational Checks - OK

I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IAW AN

ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION

ISAAC DETERS A&P 2714038 IA

8-10-19		CHANGED OIL AND FILTER
TACH 1208.0		AEROSHELL 15W50 KEAPEST AA 48110-2
ACTT 3064.7		OPS AND LEAK CHECK - OK
TSMO 326.7		Brett M. Johnson PVT PILOT 3934627
ETT 3064.7		

11-5-19				CHANGED OIL AND FILTER
TACH	1232.3			AEROSHELL 15W50 - TEMPEST AA48110-2
ACTT	3089			OPS CHECK - LEAK CHECK OK
TSMO	351			Brett M. Schum PVT PILOT 3934627
ETT	3089			
6-20-20				CHANGED OIL AND FILTER, ✓ SUCTION
TACH	1262.8			SCREEN. AEROSHELL 15-50 / TEMPEST
ACTT	3119.5			AA48110-2
TSMO	381.5			OPS CHECK - LEAK CHECK - OK
ETT	3119.5			Brett M. Schum PVT PILOT 3934627

Annual Inspection / Powerplant

09-04-2020 / 1272.4 Tach / Lycoming O-320-E2A L-19052-27A Engine SMOH- 391.3 TT- 3129.3

Inspection Completed per FAR 43 Appendix D- performed the following service work:

Replace all intake gaskets - Lycoming PN: 71973

Replaced all intake hoses - Lycoming PN: 69603

Replace all exhaust gaskets - PN: RA77611 - Lubricated all slip joints with Anti-Seize

Compression Test #1- 70/80 #2- 75/80 #3- 72/80 #4- 75/80

Checked mag timing, both set at 25°BTC

Oil & Filter recently changed by owner

Lubed engine controls - LPS

Serviced Sparkplugs

Checked Airworthiness Directives through 2020-16 on engine, prop, and accessories - none due

Run up & Operational Checks - OK

I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IAW AN

ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION

Isaac Deters

ISAAC DETERS A&P 2714038 IA

11-6-20				CHANGED OIL AND FILTER
TACH	1294.3			AEROSHELL 15W50 - TEMPEST AA48110-2
ACTT	3151			SAMPLED OIL
TSMO	413			OPS CHECK, LEAK CHECK - GOOD
ETT	3151			Brett M. Schum PVT PILOT 3934627
7-20-21				CHANGED OIL AND FILTER
TACH	1325			AEROSHELL 15W50 / TEMPEST AA48110-2
ACTT	3181.7			SAMPLED OIL
TSMO	443.7			OPS CHECK, LEAK CHECK - GOOD
ETT	3181.7			Brett M. Schum PVT PILOT 3934627

Annual Inspection / Powerplant**10-01-2021 / 1341.0 Tach / Lycoming O-320-E2A L-19052-27A Engine SMOH- 459.9 TT- 3197.9**

Inspection Completed per FAR 43 Appendix D- performed the following service work:

Removed Magnetos

RH S4LN-20 PN: 10-51360-29 SN:974419

LH S4LN-21 PN: 10-51360-37 SN:973335

Installed Overhauled Magnetos - See Quality Aircraft Accessories (CRS QYIR334Y) FAA 8130 Forms

RH S4LN-20 PN: 10-51360-29 SN:953283

LH S4LN-21 PN: 10-51360-37 SN:A88554

Compression Test #1- 76/80 #2- 76/80 #3- 75/80 #4- 77/80

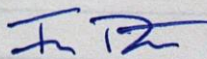
Checked mag timing, both set at 25°BTC at installation

Lubed engine controls - LPS

Serviced Sparkplugs - Clean Gap Rotate & Test Ω

Checked Airworthiness Directives through 2021-20 on engine, prop, and accessories - none due

Run up & Operational Checks - OK

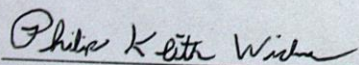
I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IAW AN
ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION

ISAAC DETERS A&P 2714038 IA

11-8-21			CHANGE OIL - FILTER
TACH	1352		AEROSHELL 15W50 / TEMPEST 48110-Z
AGT	3208.7		SAMPLE OIL - OPS / LEAK CHECK GOOD
TSMO	470.7		
ETT	3208.7		Brett M. Churn Pilot 3934627
6-17-21			CHANGE OIL ONLY
TACH	1380		AEROSHELL 15W50
AGT	3236.7		SAMPLE OIL - OPS / LEAK CHECK GOOD
TSMO	449.7		
ETT	3236.7		Brett M. Churn Pilot 3934627

6-17	1380	TACH	Replaced Mechanical Fuel Pump
2021	3236.9	AGT	Aero Accessories Oil Exchange w/ #10W6J-0000
			Part # 40295 SN: 0W6J04 See FAA 8130 Form
			Ops & Leak ✓ - OK In TZ A&P 2714038 IA

October 3rd, 2022, Lycoming O-320-E2A, S/N L-190532-27A. Tach-1462.71. Drain oil, remove filter and inspect. No contamination noted. Install new Tempest AA48110-1 Filter and torque to 18 ft. pounds. Add 7 quarts of Aeroshell 15W-50 Oil. Run engine and check for leaks.



Philip Keith Widner PPL# 4284690

19	TIME	FLIGHT	SERVICE	MECHANIC OR REPAIR FACILITY (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
2022 10/28	1517.32		3374.28	Performed a 100hr Inspection in Reference to 14CFR 43 appendix D checklist. Determined to be in an airworthy condition. Drained oil and removed oil filter, no contaminants found. Reinstalled new filter and serviced with 7 QTS of Aeroshell 15-50, removed and cleaned and inspected plugs. Reinstalled and torqued. Repaired the Alternator bracket and corrected the belt tension. Stop drilled the exhaust gland to stop the crack. over →

19	TIME	FLIGHT	SERVICE	MECHANIC OR REPAIR FACILITY (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
				Compression check as follows #1 78/80 #2 77/80 #3 78/80 #4 77/80 Repaired the R/H magneto P-lead contact pad. Jon E. Conant A4P 4/2/621 JEC
11-16-22	1579.14		3436 TT	Lycoming O-320-E2A S/N L-19052-27A. Tach-1579.14. Drain oil, remove filter and inspect. No contamination noted. Install new Tempest AA48110-1 filter and torque to 18 ft. pounds. Add 7 quarts of Aeroshell 15W-50 oil. Run engine and check for leaks. Philip Keith Widen PPL# 4284690

19	TIME	FLIGHT	SERVICE	MECHANIC OR REPAIR FACILITY (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
1-5-23	1675.32		3532.9 TT	Lycoming O-320-E2A S/N L-19052-27A. Tach-1675.32. Drain oil, remove filter and inspect. No contamination noted. Install new Tempest AA48110-1 filter and torque to 18 ft. pounds. Add 7 quarts of Aeroshell 15W-50 oil. Run engine and check for leaks. Philip Keith Widen PPL# 4284690

Date: 01/19/2023 **Hours:** AC: 3559.1 TT: 1702.16 EngTT: 821.0

Tail#: N9746W

Make: Piper

Model: PA-28-140

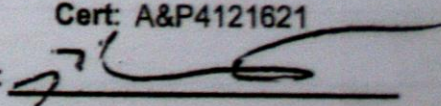
S/N: 2823229

Removed the mechanical fuel pump to be sent out for overhaul. PN:40295 SN: OWGJ04

Name: JON E CONANT

Cert: A&P4121621

Co: Clear Skies Aviation

Sign: 

Date: 02/10/2023 **Hours:** ACTT:3559.1 EngTT:821.0 Tach Time 1702.16

Tail#: N9746W

Make: Piper

Model: PA-28-140

S/N: 28-23229

Received and installed a new ELT battery. Performed operational check and G-Load check. Installed in the aircraft and secured. PNON: BP-1010 Next Due: 11/2024

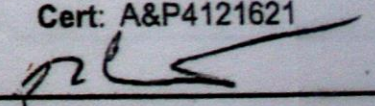
Received the fuel pump from the overhaul facility. Installed with new gaskets and O-rings torqued and safety. Rerouted the fuel lines as needed to clear. Performed maintenance ground run all checks ok at this time.

PNON: 40295 SNON: OWGJO4

Name: JON E CONANT

Cert: A&P4121621

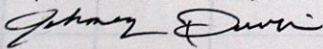
Co: Clear Skies Aviation

Sign: 

19					
2-22-23	1739.9				Lycoming O-320-E2A S/N L-19052-27A. Tach- 1739.9 Drain oil, remove filter and inspect. No contamination noted. Install new Tenpest AA48110-1 filter and torque to 18 ft pounds. Add 8 quarts of Aeroshell 15W-50 oil. Run engine and check for leaks.
					Philip Keith Widner PPL#4284690
3-15-23	1797.6				Lycoming O-320-E2A S/N L-19052-27A. Tach- 1797.6 Drain oil, remove filter and inspect. No contamination noted. Install new Champion CH48110-1 filter and torque to 18 ft pounds. Add 8 quarts of Aeroshell 15W-50 oil. Run engine and check for leaks.
					Philip Keith Widner PPL#4284690

03/09/2023 Tach Time: 1776.45 AFTT: 3650.0 Engine TSO: 910 ENGINE MODEL-O-320-E2A / S/N-L-19053-27A

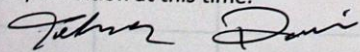
100 HOUR Inspection completed IAW FAR 43 Appendix D, Piper Cherokee maintenance manual & Lycoming engine manual. Oil change C/W currently. Oil service C/W by owner at this time (see separate log entry). Inspected engine air filter. Unit found satisfactory at this time. Engine compression test performed HOT #1- 74/80, #2- 74/80, #3- 73/80, #4- 74/80. Inspected spark plug condition & gaps. Inspected plug wires condition. Checked engine mounts and structure. No defects noted at this time. Inspected engine hoses, wiring, baffling seals and mount, Ran engine, No fuel or oil leaks found at this time. Checked AD notes through issue 2023-04. See AD note list for one recurring AD notes. "I certify this engine has been inspected IAW a 100-hour inspection & was found to be in airworthy condition at this time.

Johnny Davis 
IA/A&P 003340383

05/01/2025 Tach Time: 1844.93AFTT: 3703.8 Engine TSO: 963.8 ENGINE MODEL-O-320-E2A / S/N-L-19053-27A

ENGINE

100 HOUR Inspection completed IAW FAR 43 Appendix D, Piper Cherokee maintenance manual & Lycoming engine manual. Oil drained and replaced with 8 Quarts of Aeroshell W15W-50. Removed and replaced engine oil filter with new unit P/N [blank]. Inspected engine air filter. Unit found satisfactory at this time. Engine compression test performed HOT #1- 70/80, #2- 72/80, #3- 70/80, #4- 68/80. Inspected, cleaned and checked spark plug gaps. All spark plugs replaced with new units UREM40E. Inspected plug wires condition. Checked engine mounts and structure. No defects noted at this time. Inspected engine hoses, wiring, baffling seals and mount, Washed & Ran engine, No fuel or oil leaks found at this time. Checked AD notes through issue 2025-08. See AD note list for one recurring AD notes. "I certify this engine has been inspected IAW a 100-hour inspection & was found to be in airworthy condition at this time.

Johnny Davis 
IA/A&P 003340383