3410Z

The Standard

ENGINE LOG

ASA-SE-1

Engine Record General Information

Manufacturer LYCOMING **Model** O-320 A2B

Serial 112450-27 **Type Certificate** _____

This engine is currently installed in aircraft: PA-22-150

Minimum Octane Fuel _____ **Oil Grade:** Summer _____ Winter _____

Magneto Time _____ **Point Setting** _____ **Firing Order** _____

Spark Plug Gap _____

Manufacturer's Recommended Overhaul at _____ **hours**

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.)
2-3-16	1044.3	~~SMOH 1596.0~~		100 HR INSP. COMPLETED THIS DATE
		SMOH	1608.8	COMPRESSION CHECKED #1 73/80 #2 64/80 #3 75/80 #4 68/80 MAGNETOS CHECKED RUNUP SATISFACTORY NO LEAKS [redacted]

YEAR 20 17 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.)
4-17-17	1057.0			100 Hr Inspection Completed this date
		SMOH	1614.7	COMPRESSION checked #1 75/80 #3 75/80
				~~#3~~ #2 68/80 #4 76/80 MAGS checked
				Run up Satisfactory no leaks
				[redacted]
5-12-18	1102.1	SMOH	1665.8	CHANGED OIL & FILTER RUN-UP
			~~#3~~	LEAK CHECK SATISFACTORY
				[redacted]
				[redacted]

YEAR 20 18 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.)
06-01-18	1111.7		1674.4	100 HR INSP. COMPLETED THIS DATE
				INSTALLED NEW SEAL R MAG. NEW AIR FILTR
				CLEANED PLUGS TIMED MAGS, REPAIRED CRACKED
				EXHUST (AEROSPACE WELDING CORP) MUFFLER
				INSPECTED IAW AD 68-05-01 #1 72/80 #2 66/80 #3 75/80
				#4 70/80
				RUNUP SATISFACTORY NO LEAKS
				[redacted]

YEAR 20 19 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.)
7-3-19	1136.9		1699.6	Engine inspection performed in accordance with 100 hour inspection. Change oil + filter, service with 7 qt Aeroshell 100W. Checked timing to 25°. Inspect all engine controls for security and lube. Replaced scat hose to muffler shroud. Compression check: #1 $\frac{76}{80}$ #2 $\frac{74}{80}$ #3 $\frac{78}{80}$ #4 $\frac{78}{80}$. I certify this engine to be in airworthy condition. [redacted]

YEAR 20 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.)
10/7/20	1151.5		1714.2	Inspect and lubricate all engine controls. Timing set to 25° BTC. Changed engine oil and filter. Inspected filter. Serviced with CH48108-1 filter and 7 qts Aeroshell 100W. Compression check: #1 75/80 #2 76/80 #3 75/80 #4 74/80. Engine inspected in accordance with 100 hour inspection and is determined to be in airworthy condition. END. [redacted]
5-18-2021				Change oil Aeroshell 100W Change Filter
TACH	1177.7		1740.4	Inspect old Filter (chk ok). INSTALL All 4 Rocker Arm oil drain hoses with new
				RAN Engine LeakChk OK [redacted]

YEAR 2022 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.)
3/5/22				Inspect and lubricate engine controls. Left and Right Bendix
	1191.2		1753.9	magneto removed and 500 hour inspection performed by Eagle Mag-
Note:	AD list updated			netos left s/n 505032 right s/n 509120, see work order #4488.
	and attached to			Compression check performed #1 76/80 #2 76/80 #3 64/80 #4 60/80.
	maintenance records.			Performed cylinder borescope inspection; valves, pistons, and
				cylinder walls appear normal and no corrosion observed.
				Cleaned and rotate spark plugs. Engine timing set at
				25° BTC. Oil change due at 1202.7. Engine
				inspected in accordance with 100 hour inspection and
				determined in airworthy condition. End. [redacted]
4/23/22				Change engine oil and filter. [redacted]
	1191.2		1753.9	Inspect filter. Service with Tempest ~~AIRCRAFT~~ filter and (over)

YEAR 2022 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.)
				7 qts Aeroshell 100W. Engine run all systems normal. [redacted]



Transponder

The Standard

AIRCRAFT LOG

ASA/SA-1

AD's/ ANNUAL

Transponder

AIRCRAFT RECORD — GENERAL INFORMATION

MANUFACTURER PIPER MODEL PA22-150 SERIAL 22-7309

REGISTRATION NUMBER N3410Z DATE MFG. 2/2/60

ENGINE(S) CURRENTLY INSTALLED.

MFG LYCOMING MODEL O-320 SERIAL L-10551-27

MFG _____ MODEL _____ SERIAL _____

PROPELLER(S) CURRENTLY INSTALLED.

MFG _____ MODEL _____

HUB MODEL _____ SERIAL _____ SERIAL _____

BLADE MODEL _____ SERIAL _____ SERIAL _____ SERIAL _____ SERIAL _____

BLADE MODEL _____ SERIAL _____ SERIAL _____ SERIAL _____ SERIAL _____

The Standard
AIRCRAFT LOG

DATE 2011 ~~10~~	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.)
12-13	886.2		3541.7	Installed Steve's Aircraft gascolator (main) IAW
				STC SA01026SE, Installed Casper Labs Oil
				filter adapter R/M CL1000 IAW STC SE01930NY
				Installed Williams Alaska Brake Booster Kit P/N 8400
				IAW STC SA4653NM. See aircraft records for
				337 forms this date. Weight + balance change
				Negligible. Aircraft run-up + leak checks satisfactory
				[redacted]
				[redacted]

AD's/ ANNUAL

Transponder

DATE 2012 ~~49~~	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.)
4-B				Installed Dakota Cub fuel selector valve IAW
				STC SA02299AK. Installed Interav alternator
				conversion kit # IAW STC SA3345W. Wire size
				from Alternator to Alternator CB increased to #6 and
				a 50amp CB was installed for the ALT. power circuit
				IAW the STC and AC 43-13-1B.
				[redacted]
				[redacted]

DATE 2022 ~~19~~	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.)
3/4/	2022			Performed 100 hr inspection in accordance with FAR 43 App D. Complied with
	1191.2		3865.5	Airworthiness Directives 68-05-01, 76-07-12, 74-17-04. Performed ELT
Note:	AD list updated			check per 91.207D. Installed repaired rear exhaust stack 13238-05
	and attached to			repaired by aerospace welding AWI Eagan, MN. Installed new tach
	maintenance records.			ometer cable. Installed new brake lining left and right main landing
				gear p/n 66-105. Removed vacuum turn and bank and installed
				electric turn and bank indicator RC Allen G4000 S/N C34470 with
				Klixon circuit breaker p/n 7277-5-5. Adjusted Vacuum regulator.
				Installed Garmin G5 s/n 4JQØ5334Ø in accordance with STC SAØ1818WI.
				Installed Garmingps 175 s/n 5GHØØ2Ø71 in accordance with STC
				SA02636SE. Installed Klixon circuit breaker p/n 7277-5-5
				for G5 and Garmin GPS 175. Installed Garmin WAAS antennae

Transponder

DATE 2022 ~~19~~	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.)
		(Continued from previous page)		p/n GA35 in same location as old antennae. No changes to weight and ~~balance~~. Performed systems functional check. All systems normal. Aircraft inspected in accordance with annual inspection and determined in airworthy condition. END. [redacted] IA 3080861
		Note: See entry dated 6/10/22		See FAA forms 337 dated March 4, 2022 for Garmin G5 and GPS175.
4/22/22	1191.2		3865.5	Installed strut valve P/N AN812-1 and serviced nose strut. Installed MX170C nav/com, removed KX170b nav/com, no change to weight and balance. Installed new tube and tire right main 6.00-6 P/N AA1E4. [redacted]

DATE 2022 19__	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.)
			6/10/22	Note for entry dated 3/4/22: Magnetometer and Data Bus not installed. Garmin G5 and GPS 175 for VFR flight only. [redacted]

SENSENICH PROPELLER SERVICE, INC.

Propeller Logbook

- McCauley ☐
- Hartzell ☐
- MT ☐
- Sensenich ☑
- Dowty ☐
- Hamilton Standard ☐

INSTALLING AGENCY PLEASE NOTE:
Recording of Propeller Total Time Since New (TTSN)
is Required Per F.A.R. 91.417

Lancaster Airport, 519 East Airport Road, Lititz, PA 17543 (800) 462-3412 (717) 560-3711 Fax: (717) 560-4354 FAA Certified Repair Station #QV9R194N

Lee Gilmer Memorial Airport, 1245 Palmour Place, Suite A, Gainesville, GA 30501 (800) 791-7767 (770) 538-0444 Fax: (770) 538-0117 FAA Certified Repair Station #S46R346N

Windham Airport, 21 Airport Road, North Windham, CT 06256 (877) 456-7944 (860) 456-7944 Fax: (860) 456-0410 FAA Certified Repair Station #Q0PR011X

The manufacturers' FAA approved overhaul period for this propeller is N/A years/~~months~~ or 2000 hours, whichever occurs first.

Limiting factors affecting time between overhaul (TBO)

Corrosion, internal

- Directly proportional to calendar time
- Unseen and potentially catastrophic

Corrosion-erosion, external

- Calendar time and operating environment
- Visible and easily corrected

Wear, Internal/External

- Function of hours in operation and types of flying, i.e., aerobatic much higher wear rates than pleasure.

Seal Life

- Deterioration and loss of resiliency affecting sealing property is proportionate to calendar time in service.
- Wear rates are commensurate to hours flown.

IT IS <u>STRONGLY</u> RECOMMENDED ALL PROPELLERS MINIMALLY RECEIVE AN INTERNAL CORROSION INSPECTION AND NEW SEALS AT INTERVALS NOT TO EXCEED SIX YEARS.

INSTALLATION HISTORY

Date	Aircraft Model & Registration No.	Engine Serial Number & Position
Feb 2, 1960	Piper PA-22 N3410Z	Lycoming O-320A2B S/N 112450-27

1. Approving Civil Aviation Authority / Country: FAA / UNITED STATES	2. **AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3. Form tracking Number: 19-0390
4. Organization Name and Address: Sensenich Propeller Service, Inc. 1245 Palmour Place Suite A, Gainesville, Ga. 30501-6862		5. Work Order/Contract/Invoice Number: G25048

6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:
1	Sensenich Fixed Pitch Propeller	M74DM-0-56	1	30896	Overhauled

12. Remarks: Manual: SPRM590. Repitched from 61 to 56. All work done in accordance with Sensenich Specifications. This 8130-3 certifies that the work specified in block 11/12 was carried out in accordance with EASA Part-145 and in respect to that work the component is considered ready for release to service under EASA Part-145 Approval Number: EASA.145.6252.

Propeller TSN: **Unknown** Propeller TSO: **-0-**

13a. Certifies the items above were manufactured in conformity to: ☐ Approved design data and are in condition for safe operation. ☐ Non-approved design data specified in Block 12.		14a. ☒ 14 CFR 43.9 Return to Service ☒ Other regulation specified in Block 12 Certifies that unless otherwise specified in Block 12, the work identified in Block 11 and described in block 12 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.	
13b. Authorized Signature:	13c. Approval/Authorization No.	[redacted]	14c. Approval/Certificate No.: S46R346N
13d. Name (Typed or Printed):	13e. Date (dd/mmm/yyyy):	14d. Name (Typed or Printed): Daniel Landis	14e. Date (dd/mmm/yyyy): 05 Jun 2019

USER/INSTALLER RESPONSIBILITIES

It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts aircraft engine(s)/propeller(s)/articles(s) from the airworthiness authority of the country specified in Block 1.

Statements in Blocks 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

1. Approving Civil Aviation Authority / Country:	2.	3. Form tracking Number:
FAA / UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	21-0400
4. Organization Name and Address: Sensenich Propeller Service, Inc. 1245 Palmour Place Suite A, Gainesville, Ga. 30501-6862		5. Work Order/Contract/Invoice Number: G27499

6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:
1	Sensenich Fixed Pitch Propeller	M74DM-0-61	1	30896	Repaired

12. Remarks: Repitch from 56 to 61, Paint & Static Balance. All work done in accordance with Sensenich Specifications. This 8130-3 certifies that the work specified in block 11/12 was carried out in accordance with EASA Part-145 and in respect to that work the component is considered ready for release to service under EASA Part-145 Approval Number: EASA.145.6252.

Propeller TSN: **Unknown** Propeller TSO: **Unknown**

13a. Certifies the items above were manufactured in conformity to:

☐ Approved design data and are in condition for safe operation.

☐ Non-approved design data specified in Block 12.

14a. ☒ **14 CFR 43.9 Return to Service** ☒ **Other regulation specified in Block 12**

Certifies that unless otherwise specified in Block 12, the work identified in Block 11 and described in block 12 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

13b. Authorized Signature:	13c. Approval/Authorization	[redacted]	14c. Approval/Certificate No.: S46R346N
13d. Name (Typed or Printed):	13e. Date (dd/mmm/yyyy):	Daniel Landis	14e. Date (dd/mmm/yyyy): 07 May 2021

USER/INSTALLER RESPONSIBILITIES

It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article.

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