

ENGINE LOG

(L+)



TWIN COMMANCHE N967EY
SERIAL #1577 ADLOG #6938
WILLIAM T. HOLT

PIPER AIRCRAFT CORP.,

LOCK HAVEN, PA.

Instructions for the Use of Log Book

1. This log must always accompany the engine to which it refers.
2. No pages shall be torn from Log Book. No erasures, and all entries to be made in ink.
3. Original entries shall be made and signed by manufacturer or seller. All other entries shall be made by Pilot, Chief Mechanic, or other competent person authorized to do so.
4. On journey, the pilot is responsible for carriage of Log Book and entries or omissions therein. Failure to do so will be considered a serious neglect of duty.

5. Before departure on journey, pilot is personally to ascertain that entries in log have been made are correct, and then sign certificate to the effect.
6. Special data such as manufacturers notes, test data, reconditioning, etc., should be affixed to stubs provided for that purpose in the back of this book.
7. CAA-18-1 Repair and Alteration forms listed on last page.
8. This log book shall be available and produced, on demand of anyone so authorized.

PIPER AIRCRAFT CORP.—LOCK HAVEN, PA., U. S. A.

ENGINE LOG

N 967EX
License No.

MANUFACTURER { Name Lycoming Div. of Aero Mfg. Corporation
Address Williamsport, Penna.

Model IO-320-C1A H. P. 160 Serial No. L-337755A

Stroke 3.875 Manifold Pressure { Normal
Bore 5.125 Maximum

R.P.M. { Normal 2350 cruise B.H.P. { Normal
Maximum 2700 Maximum 160

Gear Reduction Ratio direct drive Rotation of Propeller

Certified Correct Date

OWNER..... { Name
Address

NOTICE:—Making false entries in this book is a violation of the Civil Aeronautics Act of 1938, punishable by Civil Penalty.

ENGINE LOG

REMARKS

SIGNATURE

July 3, 1968
 Completed annual insp. serviced spark
 plugs, Checked Compression, #1-72 2-76 3-80
 4-71, Changed oil and aerobically put
 Corrected other discrepancies, Detail on file
 under work order 25474

READING AVIATION SERVICE, INC.

P.O. Box 1201 Reading, Pennsylvania

I certify that this *F119* has been inspected
 in accordance with a *Annual* inspection and
 determined to be in an airworthy condition.

July 3, 1968

DATE

144:6

TOTAL TIME

3535

Authorized Signature

Repair Sta.

ENGINE LOG

REMARKS

SIGNATURE

6 MAR. 1969

OIL CHG. AEROSHELL W 40 WT.

FILTER ELEMENT CHANGED (OIL)

RAS WO # 40029

HOURLMETER = 231:4

APPROVED BY

James H. Franklin

INSPECTOR FOR
READING AVIATION SERVICE, INC.
READING, PA. • STATION 3535

ENGINE LOG

REMARKS

SIGNATURE

7 AUG 1969 ENG Insp AS PER PIPER Insp FORM. OIL DRAINED, FILTERS
CHANGED, REFILLED WITH AEROSHELL W 50, INSTALLED NEW SPARK PLUGS,
COMPRESSION TEST AS FOLLOWS: 1-72, 2-74, 3-70, 4-72. INSTALLED NEW EXH.
GASKET #2 CYL. TIGHTENED ROCKER COVER SCREWS + ROCKER BOX DRAIN HOSES.
DETAILS OF WSP ON FILE UNDER W/O 26597

READING AVIATION SERVICE, INC.

P. O. Box 1201

Reading, Pennsylvania

I certify that this ENG has been inspected
in accordance with a ANNUAL inspection and
determined to be in an airworthy condition.

7 AUG. 1969

DATE

292.0

TOTAL TIME

[Signature]

Authorized Signature

3535

Repair Sta.

ENGINE LOG

REMARKS

SIGNATURE

4 May 1970

INSTALLED NEW SEALS ON ALL PUSHROD HOUSINGS
OIL CHANGED - AERO SHELL W 50 WT.

NEW OIL FILTER ELEMENT INST.

RAS WO# 27405

HOURLY METER - 379.0

APPROVED BY

James R. Franklin

INSPECTOR FOR
READING AVIATION SERVICE, INC.
READING, PA. • STATION 3535

Engine Serial

N C

Date		R. P. M.		Ground Time		Air Time		Total Time	
Year	Mo.	Day	Ground	Air	Hrs.	Min.	Hrs.	Min.	Hrs.
70									
AUG 20 ENGINE INSPECTED PER PIPER WSP FORM. OIL DRAWN, FILTERS CHANGED, REFILLED WITH AGROSWELL W/100 SD OIL. SPARK PLUGS SERVICED, COMPRESSION CHECKED: 1-73, 2-74, 3-74, 4-75. REPAIRED HUNG SEGMENT ON FWD COWL. DETAILS ON FILE UNDER W/O 27640									
READING AVIATION SERVICE, INC. P. O. Box 1201 Reading, Pennsylvania I certify that this <u>ENG</u> has been inspected in accordance with a <u>ANNUAL</u> inspection and determined to be in an airworthy condition. <u>20 AUG 1970</u> <u>142.4</u> DATE TOTAL TIME <u>[Signature]</u> 3535 Authorized Signature Repair Sta.									
TOTAL TIME									

NOTICE:—Making false entries in this book is a violation of the Civil Aeronautics Act of 1938, punishable by Civil Penalty.

ENGINE LOG

REMARKS

SIGNATURE

22 APRIL 1971

OIL CHANGED - AEROSHELL W 50 WT

INST. NEW OIL FILTER ELEMENT

RAS WORK 28290

ENG TT - 539.0

APPROVED BY

James H. Franklin

INSPECTOR FOR
READING AVIATION SERVICE, INC.
READING, PA. STATION 3535

Engine Serial

N C

Date		R. P. M.		Ground Time		Air Time		Total Time		
Year	Mo.	Day	Ground	Air	Hrs.	Min.	Hrs.	Min.	Hrs.	Min.
			OIL CHANGED (AEROSHELL 50W). PROP. ACCUMULATOR							
			SERVICED. PROP. BLADES DRESSED. NEW SPARK PLUGS							
			INSTALLED. #2 CYL. PUSH ROD SEALS REPLACED.							
			OIL COOLER BRACKET STOP DRILLED. TURBO SHAFT SPRING							
			CONNECTED, #3 CYL OIL RETURN LINE REPAIRED & CHAFING							
			PROTECT INSTALLED. PROP. DE-ICE LINES REPOSITIONED.							
			COMPRESSION CHECKED: #1-75, 2-76, 3-76, 4-75							
			READING AVIATION SERVICE, INC.							
			P. O. Box 1201 Reading, Pennsylvania							
			I certify that this <u>ENG</u> has been inspected							
			in accordance with a <u>ANNUAL</u> inspection and							
			determined to be in an airworthy condition.							
			<u>18 AUG. 1971</u>				<u>567.4</u>			
			DATE				TOTAL TIME			
			<u>Harold A. Newberry</u>				3535			
			Authorized Signature				Repair Sta.			
			TOTAL TIME							

NOTICE:—Making false entries in this book is a violation of the Civil Aeronautics Act of 1938, punishable by Civil Penalty.

ENGINE LOG

REMARKS

SIGNATURE

9 February 1972

Oil changed - Aeroshell w 30 wt.

Inst. new oil filter element

RAS 108 # 31229

Tech- 608.1

APPROVED BY

INSPECTOR FOR
READING AVIATION SERVICE, INC.
READING, PA. • STATION 3535

Min.	Total Time

NOTICE:—Making false entries in this book is a violation of the Civil Aeronautics Act of 1938, punishable by Civil Penalty.

ENGINE LOG

REMARKS

SIGNATURE

19 July 1972

Checked & flow checked fuel nozzles

RSS Wt 32863

Tach - 666.6

APPROVED BY

James H. Franklin

INSPECTOR FOR

READING AVIATION SERVICE, INC.

READING, PA. • STATION 3535

Engine Serial

N C

Date		R. P. M.		Ground Time		Air Time		Total Time	
				Hrs.	Min.	Hrs.	Min.	Hrs.	Min.
Year	Mo.	Day	Ground	Air					
1	September	1972	Annual Inspection Completed						
			Serviced spark plugs						
			Inst. new spring #5 lower ign. lead						
			Retuned both mag to 25° BTC (was 21°)						
			Inst. new turbo gasket (eph. side)						
			Lubed arm at mixture control						
			Chg. Lye. 5/2 1199 "Fuel nozzle should rework"						
			Oil changed, Aeroshell w 40wt						
			Inst. new oil filter element						
			PAS W# 133235						
			CYLINDER NO.						
			1	2	3	4	5	6	
			73	74	72	77			
			80	80	80	80			
			COMPRESSION CHECK						
			TOTAL TIME						

READING AVIATION SERVICE, INC.
 P. O. Box 1201
 Reading, Pennsylvania

I certify that this engine has been inspected
 in accordance with a annual inspection and
 determined to be in an airworthy condition.

1 Sept 72
 DATE

James H. Franklin
 Authorized Signature

685.4
 TOTAL TIME

3535
 Repair Sta.

NOTICE:—Making false entries in this book is a violation of the Civil Aeronautics Act of 1938, punishable by Civil Penalty.

ENGINE LOG

REMARKS

SIGNATURE

9 November 1972

Oil changed - Aeroshell w 30 wt

Changed oil filter element

Cleaned fuel nozzles

RIS WD# 33939

Eng TT- 695.4

APPROVED BY

James H. Franklin

INSPECTOR FOR
READING AVIATION SERVICE, INC.
READING, PA • STATION 3535

Engine Serial

N C

Date		R. P. M.		Ground Time		Air Time		Total Time	
				Hrs.	Min.	Hrs.	Min.	Hrs.	Min.
Year	Mo. Day	Ground	Air						
	10-17-73								
Annual Inspection Completed									
Serviced spark plugs									
Tightened generator mount bolts									
Inst. new gasket at turbo outlet									
Inst. new exhaust gaskets - all									
Secured starter cable near inbd. eng. mount									
Oil changed - Aeroshell W 40wt									
Changed oil filter element									
RAB 1100 # 36985									
CYLINDER NO.									
1	2	3	4	5	6				
76	78	78	75						
80	80	80	80						
COMPRESSION CHECK									
TOTAL TIME									

READING AVIATION SERVICE, INC.
P.O. Box 1201 Reading, Pennsylvania

I certify that this engine has been inspected
in accordance with a annual inspection and
determined to be in an airworthy condition.

10-17-73 760.9
DATE TOTAL TIME

James R. Franklin 3535
Authorized Signature Repair Sta.

NOTICE:—Making false entries in this book is a violation of the Civil Aeronautics Act of 1938, punishable by Civil Penalty.

ENGINE LOG

REMARKS

SIGNATURE

18 July 1974

oil changed - aeroshell w 50 wt

changed oil filter element

cleaned fuel nozzles

Inst. all new pushrod housing seals - all cylinders

checked prop. accumulator pressure

RPS wt # 40074

Hobbs - 732.8

APPROVED BY

James H. Franklin

INSPECTOR FOR

READING AVIATION SERVICE, INC.

READING, PA. STATION 3535

Engine Serial

Robb - 803.2

N C

Date		R. P. M.		Ground Time		Air Time		Total Time	
Year				Hrs.		Hrs.		Hrs.	
Mo.	Day	Ground		Air					

7 November, 1974

R/S Wa # 41175

Annual inspection completed

Serviced spark plugs

Inst. new hoses & gaskets #1 & 4 intake pipes

Pressure checked oil cooler - no leaks detected

Inst. new generator drive belt

Inst. new manifold drain check valve

Oil changed - Perbell w 40 wt

Changed oil filter element

Checked turbo oil filter

CYLINDER NO.

1	2	3	4	5	6
76	78	68	74		
80	80	80	80	80	80

TOTAL COMPRESSION CHECK

READING AVIATION SERVICE, INC.

P. O. Box 1201

Reading, Pennsylvania

I certify that this engine has been inspected
in accordance with a annual inspection and
determined to be in an airworthy condition.

11-7-74

803.2

DATE

TOTAL TIME

James R. Franklin

3535

Authorized Signature

Repair Sta.

NOTICE: Making false entries in this book is a violation of the Civil Aeronautics Act of 1938, punishable by Civil Penalty.

ENGINE LOG

REMARKS

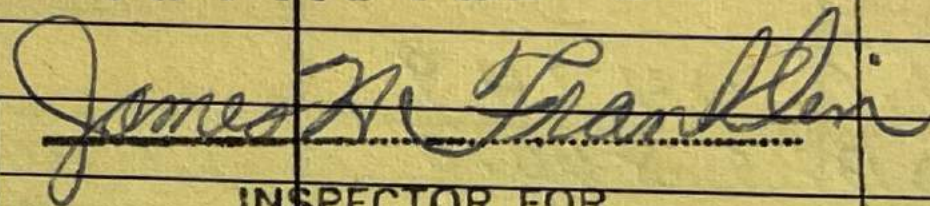
SIGNATURE

2 July 1975

Ow Lye. AD 75-A-15 Bendix flow divider
new gasket #2538998 inst
wo # 43400

Hobbs - 835.6

APPROVED BY

INSPECTOR FOR
READING AVIATION SERVICE, INC.
READING, PA. - STATION 3535

NOTICE:—Making false entries in this book is a violation of the Civil Aeronautics Act of 1938, punishable by Civil Penalty.

Engine Serial

N C

Date		R. P. M.	Ground Time		Air Time		Total Time																									
Year Mo. Day	Hrs.		Min.	Hrs.	Min.	Hrs.	Min.																									
25 Nov. 1975																																
ANNUAL INSP. COMPLETED. OIL CHANGED, AEROSHELL NO 40 WT. CHANGED OIL FILTER. SER. SPARK PLUGS. REPAIRED INDUCTION AIR BOX DOOR. NO-1 CYL. INTAKE SEAL REPLACED. INST. NEW DUCT ON AIR INLET TO TURBO.																																
W.C. 44749 HOBBS 860:0																																
<table border="1"> <thead> <tr> <th colspan="6">CYLINDER NO.</th> </tr> <tr> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>5</th> <th>6</th> </tr> </thead> <tbody> <tr> <td>74</td> <td>74</td> <td>72</td> <td>76</td> <td></td> <td></td> </tr> <tr> <td>80</td> <td>80</td> <td>80</td> <td>80</td> <td></td> <td></td> </tr> </tbody> </table>									CYLINDER NO.						1	2	3	4	5	6	74	74	72	76			80	80	80	80		
CYLINDER NO.																																
1	2	3	4	5	6																											
74	74	72	76																													
80	80	80	80																													
COMPRESSION CHECK																																
READING AVIATION SERVICE, INC. P. O. Box 1201 Reading, Pennsylvania I certify that this <u>ENG.</u> has been inspected in accordance with a <u>ANNUAL</u> inspection and determined to be in an airworthy condition. <u>11/25/75</u> DATE <u>Clarence E. Faust</u> Authorized Signature <u>860:0</u> TOTAL TIME <u>3535</u> Repair Sta.																																
TOTAL TIME																																

NOTICE:—Making false entries in this book is a violation of the Civil Aeronautics Act of 1938, punishable by Civil Penalty.

ENG

REMARKS

11 January 1977
 Annual inspection
 Inst. new spark
 Inst. new eph
 Inst. new Ray
 P/N RJ 0326-2
 Greased prop hub.
 Oil changed - Peroshell W 30 wt
 Changed oil filter element
 Cleaned turbo oil filter
 WO # 48684

LT

model 325E10-2
5-440010-13

P#

RJ 0326-2 B32

SPR

16574

SPARE

READING AVIATION SERVICE, INC.

P. O. Box 1201

Reading, Pennsylvania

I certify that this engine has been inspected
 in accordance with an annual inspection and
 determined to be in an airworthy condition.

1-11-77

944.8

DATE

TOTAL TIME

James R. Franklin

3535

Authorized Signature

Repair Sta.

REMARKS

SIGNATURE

11 January 1977
 Annual inspection completed
 Inst. new sparkplugs AC-171
 Inst. new exhaust gaskets
 Inst. new Rajay Turbo Model 325E10-2
 P/N RS 0326-2 S/N 16574
 Greased prop hub.
 Oil changed - Aeroshell W 30 wt
 Changed oil filter element
 Changed turbo oil filter
 WO # 48684

READING AVIATION SERVICE, INC.

P. O. Box 1201 Reading, Pennsylvania

I certify that this engine has been inspected
 in accordance with annual inspection and
 determined to be in an airworthy condition.

1-11-77

DATE

944.8

TOTAL TIME

3535

 James D. Franklin
 Authorized Signature

Repair Sta.

Engine Serial

Engine Serial

Date

R. P. M.

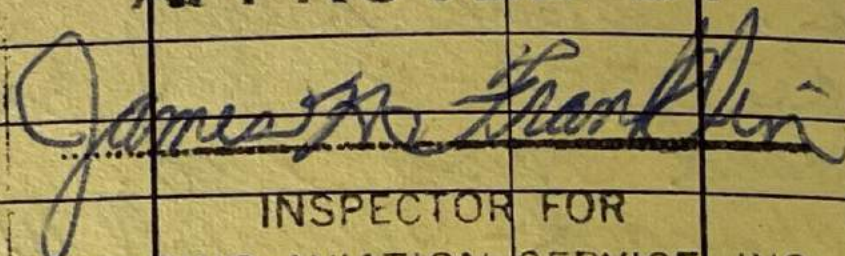
Ground Time
Hrs. Min.Air Time
Hrs. Min.Total Time
Hrs. Min.Year
Mo. Day

Ground

Air

27 January 1977
 Checked & flow checked fuel nozzles
 WO# 49835
 Hobbs - 972.1

APPROVED BY



INSPECTOR FOR
 READING AVIATION SERVICE INC.
 READING, PA. • STATION 3535

TOTAL TIME

NOTICE:—Making false entries in this book is a violation of the Civil Aeronautics Act of 1938, punishable by Civil Penalty.

ENGINE LOG

REMARKS

SIGNATURE

3/9/78

ANNUAL INSP. OIL CHANGED & FILTER, AEROSHELL
W 40 WT. OIL, PROP. SPINNER REPLACED.
ADJUSTED BOTH MAGNETO TIMING AND POINTS TO SPEC'S.
SERVICED SPARK PLUGS, REPAIRED NOSE
COWL HINGE AND FIBER GLASS.
REPLACED SPRING FOR CARB. HEAT CONTROL
ADJUSTED PROP. ALCOHOL FEED TUBES
TO PREVENT CHAFING ON PROP.

READING AVIATION SERVICE, INC.

P. O. Box 1201 Reading, Pennsylvania

I certify that this ENG has been inspected
in accordance with an ANNUAL inspection and
determined to be in an airworthy condition.

9 Mar 1978

DATE

1034.9

TOTAL TIME

Clarence E. Foust

Authorized Signature

3535

Repair Sta.

Details on file RAS W.O. 51073

NOTICE:—Making false entries in this book is a violation of the Civil Aeronautics Act of 1938, punishable by Civil Penalty.

NC

NOTICE:—Making false entries in this book is a violation of the Civil Aeronautics Act of 1938, punishable by Civil Penalty.

ENGINE LOG

REMARKS

SIGNATURE

16 Oct 79. COMPLETED ANNUAL Insp. CHANGED OIL
 & FILTERS SERVICED SPARK PLUGS DETAILS ON FILE
 AT RAS UNDER W.O. 53100.

READING AVIATION SERVICE, INC.

P.O. Box 1201

Reading, Pennsylvania

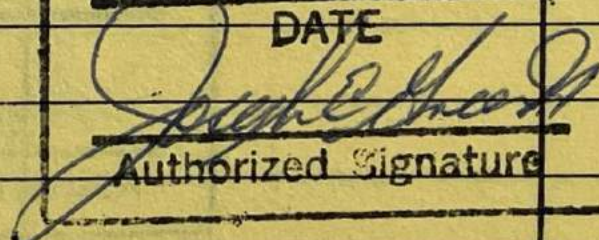
I certify that this *ENG* has been inspected
 in accordance with a *ANNUAL* inspection and
 determined to be in an airworthy condition.

16 Oct 79

DATE

1133.1

TOTAL TIME

3535

 Authorized Signature

Rep. Sta.

NOTICE:—Making false entries in this book is a violation of the Civil Aeronautics Act of 1938, punishable by Civil Penalty.

N C

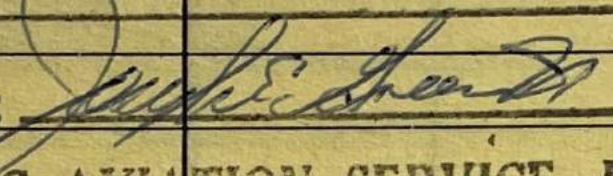
NOTICE:—Making false entries in this book is a violation of the Civil Aeronautics Act of 1938, punishable by Civil Penalty.									
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ENGINE LOG

REMARKS

SIGNATURE

23 Oct 81 CHANGED OIL & FILTER, SERVICED WITH
AEROSHELL W40 WT OIL, AD 81-08-04 DUE
AT NEXT OVERHAUL.
TACHOMETER 1202.3 Hrs

SIGNED: 

READING AVIATION SERVICE, INC.

REPAIR STATION #3535

NOTICE:—Making false entries in this book is a violation of the Civil Aeronautics Act of 1938, punishable by Civil Penalty.

Engine Serial

N C

Date		R. P. M.		Ground Time		Air Time		Total Time	
				Hrs.	Min.	Hrs.	Min.	Hrs.	Min.
Year	Mo. Day	Ground	Air						
1	MAY 82			COMPLETED ANNUAL INSPECTION, CHANGED OIL & FILTER, SERVICED SPARK PLUGS. DETAILS ON FILE AT RAS UNDER NO. 56316					
				READING AVIATION SERVICE, INC. P. O. Box 1201 Reading, Pennsylvania I certify that this <u>ENGINE</u> has been inspected in accordance with a <u>Annual</u> inspection and determined to be in an airworthy condition. <u>1 May 82</u> DATE <u>[Signature]</u> Authorized Signature TOTAL TIME <u>3535</u> Repair Sta.					
TOTAL TIME									

NOTICE:—Making false entries in this book is a violation of the Civil Aeronautics Act of 1938, punishable by Civil Penalty.

(L) ENGINE LOG

REMARKS

SIGNATURE

3/23/84 Tach 1230.3 100 HK Annual Inspection Completed -
Comp Check #1/79, #2/77, #3/76, #4/78. Checked air filter, checked leads & mag
timing, checked ind. system & exh. system, tightened all loose screws, checked & lubed
eng. controls, changed oil (8qt 40 SAE) & oil filter (OF 51A), cleaned and
checked piston screen, removed all spark plugs, cleaned, checked & re-
gapped (replaced 1 spark plug AC-171), reinstalled plugs - prop
removed - sent to Sensenich Prop Shop for compliance of Hartzell
AD #77-12-06 - reinstalled & safetied props - Unleaded Engine -

AD's researched & checked thru 84-04 - Eng. running - Checked for
leaks - none noted - functional check ok -
I CERTIFY THAT THIS ENGINE HAS
BEEN INSPECTED IN ACCORDANCE
WITH 100 HK INSPECTION
AND WAS DETERMINED TO BE ON
AIRWORTHY CONDITION.

SIGNATURE

SIGNATURE

NO.

NO.

169269057

1691467

3/23/84

1230.3

3/23/84

1230.3

NOTICE: Making false entries in this book is a violation of the Civil Aeronautics Act of 1938, punishable by Civil Penalty.

NC	
e	Total

Engine Serial

Date		R. P. M.		Ground Time Hrs. Min.		Air Time Hrs. Min.		Total Time Hrs. Min.	
Year Mo.	Day			Ground	Air				
MAY	82					COMPLETED ANNUAL INSPECTION, CHANGED OIL & FILTER, SERVICED SPARK PLUGS. DETAILS ON FILE AT RAS UNDER NO. 56316.			
READING AVIATION SERVICE, INC. P. O. Box 1201 Reading, Pennsylvania I certify that this <u>ENG</u> has been inspected in accordance with a <u>Annual</u> inspection and determined to be in an airworthy condition. <u>May 82</u> DATE <u>[Signature]</u> Authorized Signature						TOTAL TIME			
						3535			
						Repair Sta.			
						TOTAL TIME			

NOTICE:—Making false entries in this book is a violation of the Civil Aeronautics Act of 1938, punishable by Civil Penalty.

(L) ENGINE LOG

REMARKS

SIGNATURE

3/23/84 Tach 1230.3 100 HK Annual Inspection Completed -
Comp Check #1/79, #2/77, #3/76, #1.4/78. Checked air filter, checked leads & mag
timing, checked ind. system & spha. system, tightened all loose screws, checked & lubed
eng. controls, changed oil (8 qt 40 AD Shell) & oil filter (OF 51A), cleaned and
checked filter screen, removed all spark plugs, cleaned, checked & re-
gapped (replaced 1 spark plug AC-171), reinstalled plugs - prop
removed - sent to Sensenich Prop Shop for compliance of Nutzfell
AD #77-12-06 - reinstalled & certified props - V checked Engine -

AD's researched & checked thru 84-04 - Eng. permit up - checked for
leaks - none noted - functional check ok

CERTIFY THAT THIS ENGINE HAS
BEEN INSPECTED IN ACCORDANCE
WITH 100 HK INSPECTION
AND WAS DETERMINED TO BE ON
AIRWORTHY CONDITION.

CERTIFY THAT THIS ENGINE HAS
BEEN INSPECTED IN ACCORDANCE
WITH Annual INSPECTION
AND WAS DETERMINED TO BE ON
AIRWORTHY CONDITION.

SIGNATURE

SIGNATURE

NO. 169269057

NO. 1A1641467

3/23/84 1230.3

DATE 3/23/84

1230.3

NOTICE: - Making false entries in this book is a violation of the Civil Aeronautics Act of 1938, punishable by Civil Penalty.

Total Time

R. P. M.

Year
Mo. Day

Ground

Air

HELLER AERO SERVICE, INC.

R.D. #3 Airport Road
POTTSTOWN, PENNSYLVANIA 19464

CRS #103-39
(215) 495-5448

L/H ENG

3. 23-84

L/H ENG 3-23-84
AD# 82-27-03 ROTO-MASTER (RAJAY)

TURBOCHARGER GW AS PER

PARA B YRU 5 8, P.D.

K. V. Kelkar

A+P 169269097

TOTAL TIME

NOTICE:—Making false entries in this book is a violation of the Civil Aeronautics Act of 1938, punishable by Civil Penalty.

Engine Serial

N C

Date		R. P. M.		Ground Time		Air Time		Total Time	
Year				Hrs.	Min.	Hrs.	Min.	Hrs.	Min.
Mo.	Day	Ground	Air						
4	3								
		Change oil & FILTERS, 8 qts Aeroshell 50 cleaned & gapped Top							
		Plugs, Replaced Bottom Plugs with Champion RER37E Plugs, Replaced							
		Generator Brushes, Replaced Lower Right engine mount, Had cracks							
		in Turbo shroud (exhaust side) welded, Replaced Turbo Air Hoses							
		& FILTERS, Replaced worn Intake pipe seals, Replaced Generator							
		BLAST Hoses, Replaced all exhaust nuts & washers, Replaced all							
		valve cover GASKETS, Install No. 310 exhaust GASKETS all cylinders							
		COMPRESSIONS - 1 $\frac{78}{80}$ 2 $\frac{78}{80}$ 3 $\frac{70}{80}$ 4 $\frac{78}{80}$ TT 1324							
		— Done Wunderlich A.P. 185387229 —							
					</				

ENGINE LOG

REMARKS

SIGNATURE

I certify this ~~Airplane~~.

Engine has been inspected

in accordance with a ~~100 hr.~~

annual inspection and found

to be airworthy.

T.T. 1324

Date

APRIL 4, 1955

George Town

AE73662-1A

Engine Serial

N C

Date		R. P. M.		Ground Time		Air Time		Total Time	
Hrs.		Min.		Hrs.		Min.		Hrs.	
Year		Mo.		Day		Ground		Air	
85		7		25					

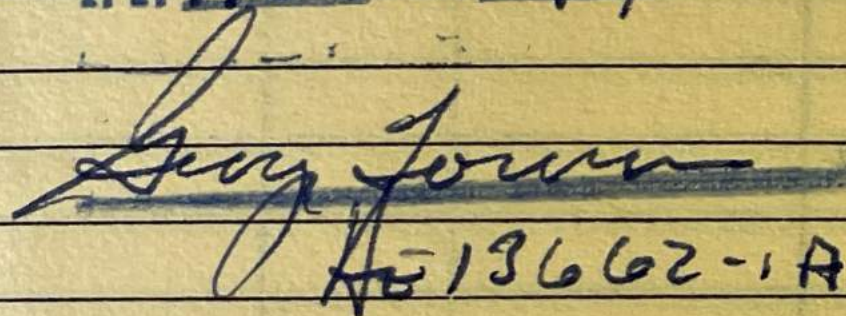
ENGINE LOG

REMARKS

SIGNATURE

I certify this Airframe -

Engine has been inspected

in accordance with a ~~100 hr~~
annual inspection and found
to be airworthy.T.T. 1768 Date 5/1/87
AE13662-1A5/1/87 1768TT - OIL change
+ FILTER, 8 qts Aeroshell 50.Replaced Turbocharger TAIL pipe
Assembly & ALL Turbo gaskets
Replaced worn SPARK plugs
with new, checked magneto

Timing & Breaker P.T. Lubrication

Replaced intake scoop studs

JAW Rayay S/L 19, Replaced

ALL Rocker GASKETS + INTAKE

hoses on Right side.

Compression:

1 75/80 2 71/80 3 74/80 4 78/80

David Wunderlich

A.P. 185387225



This Log Book Begins 12-1-86

THE **adlog**TM AIRCRAFT
MAINTENANCE
RECORDKEEPING
SYSTEM

TWIN COMMANCHE N967EY
SERIAL #1577 ADLOG #6938
WILLIAM T. HOLT

N 967 EY

Left

**ENGINE
MAINTENANCE
RECORDS**

ENGINE MAINTENANCE RECORDS

Log No. 6938

Aircraft Registration No. N967EY

Engine Manufacturer Lycoming

Model L10 320 CIA

Serial No. L337755A

Date installed on aircraft _____

Time Between Overhauls (TBO) 2000 Hours

If used on multi-engine aircraft:

☐ Right
☐ Front

☒ Left
☐ Rear



**AERO
TECH PUBLICATIONS INC.**

P.O. BOX 528 / OLD BRIDGE, NJ 08857

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
				TOTALS brought forward from previous page
5/1/87	1768			I certify this Aircraft Engine has been inspected in accordance with a FAA annual inspection and found to be airworthy. T.T. 1768 Date 5/1/87 <u>George Towne</u> AE13662-1A
5/27/88	1907			ANNUAL INSPECTION I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS FOUND AIRWORTHY <u>George Towne</u> AE13662-1A
5/25/88	1907			COMPRESSION #1 17 1/2 #2 16 1/2 #3 15 1/2 #4 15 1/2 - CHANGED OIL + FILTER + CLEANED SCREENS, ADDED 8 qts Aeroshell 50 REPLACED ALL TURBOCHARGER GASKETS + SAFTIR IAW PIPER SB 884. CLEANED, GAPPED + TESTED ALL SPARK PLUGS INSPECTED HEAT SHIELDING ON TURBO OIL LINES REPLACED ALL EXHAUST GASKETS WITH "NO BLEW" TYPE C/W AD 78-07-07 AND MAGNETO IMPULSE COUPLINGS, ALL MAG COUPLINGS WITHIN LIMITS, C/W AD 73-07-04 BY INSPECTION, COIL + RETAINS ARE OF A ACCEPTABLE TYPE, STAMPED ALL MAGS "A" TO INDICATE COMPLIANCE, C/W 74-26-09 BY REPLACING DRIVE BUSHINGS WITH MACHINED STEEL TYPE AND CHANGING PARTS DASH NUMBERS TO INDICATE COMPLIANCE <u>Dan Wumelerich</u> AIP 1E538725
				SUB-TOTALS this page
				TOTALS—Carry forward to next page

[illegible]

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
				TOTALS brought forward from previous page
6/15/89	1984		Same	I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL AND WAS DETERMINED TO BE AIRWORTHY. <i>Gary Towns</i> A-E13662-1A
				I certify this engine engine has been inspected in accordance with a 500-hour annual inspection and found to be airworthy. T. T. 2086 Date <u>7/5/90</u> <i>Gary Towns</i> 13662-1A
7/3/90	2087	2087	2087	Compression: #1 75/80 #2 70/80 #3 77/80 #4 74/80 O.I. changed + FILTER, 8 qts Aeroshell 100 Cleanly gapped + tested all SPARK Plugs, checked magnet Points + Timing, Replaced leaking Rocker cover gaskets, C/W 81-19-04 By Replacement of Oil Hoses in close proximity of Turbocharger, C/W 90-04-01. By inspection of prop governor oil line, all clamps + BRACKETS ARE CORRECT + Proper. <i>Daniel Wundelich</i> A-P185387229
4/30/91	2154		→	O.I. changed + FILTER, Turbo FILTER cleaned, serviced with Aeroshell 50. <i>Daniel Wundelich</i> A-P185387229
				SUB-TOTALS this page
				TOTALS—Carry forward to next page

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
				TOTALS brought forward from previous page
10/9/92	2194		2194	Oil + Filter changed, serviced with 8 qts Acrosshell 50 AD o.l. SPARK plugs cleaned, gapped + tested. magnets points + timing checked. Replaced Air Filter element. Replaced worn intake hoses. Replaced Leaking Rocker cover gaskets as necessary. Compression: $1\frac{75}{80}$ $2\frac{72}{80}$ $3\frac{75}{80}$ $4\frac{70}{80}$ David Wumalulish A-P 195387229
				certify this aircraft engine has been inspected in accordance with a logbook annual inspection and found to be airworthy. T. T. 2194 Date 10/9/92 <u>George Town</u> 13662-1A

U.S. PROPELLER SERVICE of FLORIDA

8917 Maislin Drive, Building "F"
Tampa, Florida 33637
813-985-4140

RATINGS

LIMITED ACCESSORY

FAA Certificate No. UQPR028K

GOVERNOR MAINTENANCE RELEASE

Make HARTZ Model F-6-3A Serial No. 11258T

The aircraft component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and has been certified for return to service. Pertinent details of work performed are on file at this station under W.O. No. FR-5223
Work performed complies with Airworthiness Directives and Service Bulletins.

CUSTOMER _____

DATE 08-02-93~~REPAIR ORDER~~ 213 176 4WINSPECTOR Donald J. Buse"DETAILS ON BACK" yesLICENSE NO: 2398937

SUB-TOTALS this page

TOTALS Carry forward to next page

2246.5

Page No.

DATE

TOTAL
TIME
IN
SERVICETOTAL
TIME
SINCE
OVERHAULTACH OR
RECORDING
METER
TIMEDESCRIPTION OF WORK PERFORMED—
SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK

TOTALS brought forward from previous page

TEXTRON Lycoming

Williamsport Plant

Textron Lycoming/Subsidiary of Textron Inc.

652 Oliver Street
Williamsport, PA 17701 U.S.A.
717/327-7308

This engine has been overhauled/rebuilt in accordance with the applicable Textron Lycoming Overhaul Manual. All Federal Aviation Administration Airworthiness Directives and Textron Lycoming Service Bulletins have been complied with. All parts have been inspected and have been determined airworthy to return to service. All accessories as part of the type certificate are either new or newly overhauled. Refer to enclosed Form ET001 for applicable accessory part numbers and serial numbers.

Engine Model: IO-320-C1A

Serial #: L-3377-55A

Date: August 21, 1993

Total Time: 2246:5

Work Order #: A-3279

Signed

Tex

Will

Mor

Rep

Form No. 365

SERVICEABLE PARTManufacturer **Textron-Lycoming**
Engine

Part Name

Model **IO-320-C1A**

Part No.

Serial No. **L-3377-55A**

Remarks

Major Overhaul

The aircraft engine or accessory identified above was:

- ☐ Remanufactured/Rebuilt
☒ Overhauled
☐ Repaired

and inspected in accordance with current Regulations of the Federal Aviation Administration and is approved for return to Service.

Work Order **A-3279**Date **8-21-93**

Signed

Textron Lycoming Service Center
 Repair Station Number ED1R109K
 Williamsport/Lycoming Co. Airport
 Montoursville, PA 17754

REPAIR STATION
ED1R109K

Form 2085

No. **8594**

SUB-TOTALS this page

TOTALS—Carry forward to next page

9/14/93 2246 - 0 - 2246 Installed

IN LEFT p

Replaced AR

cleaned + inspe

Test Run + Le

Davi

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
				TOTALS brought forward from previous page
8-10-94			2354	Replace #2 + 4 intake pipe flanges gaskets, couplings & 1 clamp on #4 coupling <i>[Signature]</i> VCRS - BFR032K
	10/14/94	16665	2391	SMOH 145. Compression: #1 $73\frac{1}{8}$ #2 $73\frac{1}{8}$ #3 $73\frac{1}{8}$ #4 $75\frac{1}{8}$ O.I. DRAINED + Filter changed. Serviced with 8 qts Aeroshell 40. Cleaned Turbo oil Filter. Checked magnet points AND Timing, Adjust to specs. Replaced worn Turbo inlet duct hoses as necessary. Installed heat Blanket on Turbine housing. <i>[Signature]</i> David Wumakerlich API85387229
				I certify this Airframe Engine has been inspected in accordance with a 100-hour annual inspection and found to be airworthy. T. 2391 Date 10-14-94 <i>[Signature]</i> 13662-1A
				NOVEMBER 10, 1995 I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS FOUND TO BE AIRWORTHY <i>[Signature]</i> TT-H6665 2391 13662-1A
				SUB-TOTALS this page
				TOTALS—Carry forward to next page

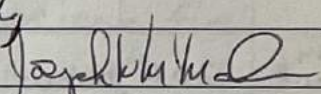
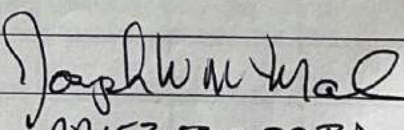
DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
TOTALS brought forward from previous page				
11/10/01	2859	613	2859	C/W ANNUAL INSP. IAW PIPER FORM. MEETS REQ. OF FAR PART 43, APP. D. @ 77/80 @ 77/80 @ 76/80 @ 76/80 SERVICED WITH SHELL W80. C/W 93-02-05 FUEL INJ. LINES & CLAMPS. C/W 81-19-04 RAYOIL OIL HOSES BY REPLACEMENT OF PRESSURE & SCRUDDER LINES Tachometer <u>2859</u> Total Time <u>2859</u> I certify that this engine (engine) has been inspected in accordance with a ANNUAL (100 HOUR) inspection and was determined to be in airworthy condition. Time since last insp. <u>29</u> Dated <u>11/10/01</u> W.O. # <u>N/A</u> Signed <u>David Mathiesen</u> DAVID MATHIESEN A & P 1396411261.A
9/15/02	2893	647	2893	Replaced vac. pump w/ new 215cc pump, ops CK. Good <u>David Mathiesen</u> 139641126 A&P
12-8-03 1-8-04	2980	734	2980	CK'D compression 1) 76/80 2) 74/80 3) 76/80 4) 78/80 DRAINED OIL REPLACED FILTER SERVICED WITH AERO SHELL 80W C/W AD 2002-26-01 FUEL INJECTOR LINES BY INSP. ^{SH 1-05} NEXT DUE 3080TCH OR 1200 I CERTIFY THAT THIS ENGINE WAS INSPECTED IAW AN ANNUAL INSPECTION AND DETERMINED AIRWORTHY <u>Joseph W. White</u> AP 1535001991A
SUB-TOTALS this page				
TOTALS—Carry forward to next page				

AIR-MODS & REPAIR INC.
OLD BRIDGE AIRPORT (3N6)
182 PENSION RD. ENGLISHTOWN
N.J. 07726 (732) 446-0703

TOTALS—Carry forward to next page

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
				TOTALS brought forward from previous page
11-1-06	3180	HOBBS		CK'D Compression 1) 78/80 2) 77/80 3) 78/80 4) 77/80 DRAINED OIL REPLACED FILTER SERVICED with AeroShell 80 W. CLEANED GAPPED TESTED AND ROTATED SPARK PLUGS. REPLACED FUEL HOSE BETWEEN SERVO & DISTRIBUTOR. REPLACED TURBO CHARGER HOSE IAN AD 81-19-4 CLEANED FUEL STRAINER & REPLACED BOWL GASKET. I CERTIFY THAT THIS ENGINE WAS INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND DETERMINED TO BE AIRWORTHY Joseph Whitman AP153500199IA
	884	SMOH		
	3180	TTE		
10-1-07	3180	HOBBS		CK'D Compression 1) 76/80 2) 78/80 3) 75/80 4) 77/80 DRAINED OIL REPLACED FILTER SERVICED with AeroShell 100W CLEANED GAPPED TESTED ROTATED SPARK PLUGS. REPLACED ENGINE SHOCK MOUNTS REPLACED TURBO & TURBO SEAVAGE Pump. C/W AD 96-12-07 BENDIX MAG. ADJUSTED TIMING GROUND RUN SET idle SPEED & MIXTURE I CERTIFY THAT THIS ENGINE WAS INSPECTED IAN AN ANNUAL INSPECTION AND DETERMINED AIRWORTHY Joseph Whitman AP153500199IA
	934	SMOH		
	3180	TTE		
				SUB-TOTALS this page
				TOTALS—Carry forward to next page

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
				TOTALS brought forward from previous page
12-1-08	3249 HOBBS.			CK'D COMPRESSION 1) 78/80 2) 78/80 3) 77/80 4) 77/80 DRAINED OIL REPLACED FILTER SERVICED WITH AEROShell 80W AND 1 MEASURE OF LYCOMING 1670Z ADDITIVE. CLEANED GAPPED TESTED & ROTATED SPARK PLUGS. CLEANED FUEL NOZZLES. I CERTIFY THAT THIS ENGINE WAS INSPECTED IN ACCORDANCE WITH A 100 HR INSPECTION AND DETERMINED TO BE AIRWORTHY Joseph W. White AP 153500199
2-1-10	3316 HOBBS 1001 SMOH 3316 TTE			CK'D COMPRESSION 1) 76/80 2) 76/80 3) 75/80 4) 78/80 DRAINED OIL REPLACED FILTER SERVICED WITH AEROShell 80W & 1 MEASURE LW 1670Z CLEANED & GAPPED UPPER SPARK PLUGS REPLACED LOWER PLUGS WITH NEW. CK'D & ADJUSTED MAG TIMING CK'D & ADJUSTED IDLE SPEED & MIXTURE GROUND RUN NO LEAKS NOTE ALL INDICATIONS SATISFACTORY I CERTIFY THAT THIS ENGINE WAS INSPECTED IN AN A 100 HR INSPECTION AND DETERMINED TO BE AIRWORTHY Joseph W. White AP 153500199 IA
				SUB-TOTALS this page
				TOTALS—Carry forward to next page

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				TOTALS brought forward from previous page
10-10-10	3376 HOBBS 1061 SMOH 3376 TTE			CK'D COMPRESSION 1) $\frac{75}{80}$ 2) $\frac{78}{80}$ 3) $\frac{75}{80}$ 4) $\frac{76}{80}$ DRAINED OIL REPLACED FILTER SERVICED WITH AERO SHELL 80 PLUS. CLEANED GAPPED TESTED & ROTATED SPARK PLUGS CLEANED FUEL INJECTOR NOZZLES GROUND RUN ALL INDICATIONS SATISFACTORY I CERTIFY THAT THIS ENGINE WAS INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND DETERMINED AIRWORTHY  AP153SD0199IA
11-18-11	3481 HOBBS 1166 SMOH 3481 TTE			CK'D COMPRESSION 1) $\frac{78}{80}$ 2) $\frac{78}{80}$ 3) $\frac{75}{80}$ 4) $\frac{77}{80}$ DRAINED OIL REPLACED FILTER SERVICED WITH AERO SHELL 80 PLUS & I MEASURED LW 1670Z ADDITIVE CLEANED GAPPED TESTED ROTATED SPARK PLUGS. CK'D MAG TIMING CK'D AND ADJUSTED IDLE SPEED AND MIXTURE I CERTIFY THAT THIS ENGINE WAS INSPECTED IN AN ANNUAL INSPECTION AND DETERMINED TO BE AIRWORTHY  AP153SD0199IA
				SUB-TOTALS this page
				TOTALS—Carry forward to next page

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
				TOTALS brought forward from previous page
8-1-17	3837.0	1521.0	3837.0	Tachometer 3837.0 Total Time 3837.0 certify this (aircraft) engine has been inspected in accordance with an ANNUAL (100 HOUR) inspection and was determined to be in airworthy condition. Dated 8-1-17 Signed <i>Arthur J. Lusk</i> 162460038 change oil and filter added 8 qts 100+ new shell inspected filter. compression test #1 75/80 #2 75/80 #3 75/80 #4 75/80 removed oil cooler baffles repaired replaced cowl seat cleaned gages tested all spark plugs replaced rocker box gaskets P/N 75906 #1 #3 cyl. checked mag timing inspected exhaust and induction systems
11-24-18	3855.2	1539.2	3855.2	Tachometer 3855.2 Total Time 3855.2 certify this (aircraft) engine has been inspected in accordance with an ANNUAL (100 HOUR) inspection and was determined to be in airworthy condition. Dated 11-24-18 Signed <i>Arthur J. Lusk</i> 162460038 inspected oil filter #1 75 #2 75 #3 78 #4 77 cleaned gages tested all spark plugs inspected exhaust system turbo and induction system
	3921.2	1655.2	3921.2	Tachometer 3921.2 Total Time 3921.2 certify this (aircraft) engine has been inspected in accordance with an ANNUAL (100 HOUR) inspection and was determined to be in airworthy condition. Dated 12-2-19 Signed <i>Arthur J. Lusk</i> 162460038
				SUB-TOTALS this page
				TOTALS—Carry forward to next page

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DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
				TOTALS brought forward from previous page

*Air Mods and Repair, Inc.
Trenton-Robbinsville Airport (N87)
Factory Authorized Mooney Service Center*

LEFT ENGINE

N967EY 3/8/23 Hobbs:3938.8 TTIS:3938.8 SMOH: 1677.3

- C/W Annual inspection & servicing IAW *Piper* PA30 inspection form and requirements of FAR 43 Appendix D.
- Compressions (@80 PSI): 1/70 2/76 3/74 4/79
- Drained oil, inspected filter & screen. Installed new 48110-2 filter and 8 qts. Phillips X/C 20W-50, Installed new; BA-27 air filter.
- Replaced RBC gaskets as required and multiple adel clamps
- Adjusted alternator belt and resafetied.
- Ground run, leak and operational checks satisfactory.
- C/W Lycoming AD 15-19-07 Fuel inj. Lines, clamps SB 342G next due:4048.8
- AD compliance checked thru bi-weekly 2023-05.

I certify that this Engine has been inspected in accordance with an Annual Inspection and was determined to be in airworthy condition.

David Mathiesen AP277904IA

Make - Pipe
Model - PA30B-160
Airframe Serial Number - 1577
Registration - N967EY
Engine Make - Lycoming
Model - IO320-C1A
Engine Serial Number - L-3346-55A
Engine position - LEFT
Date 01/19/2024, Hobbs 3964.3hrs

1. All four engine mounts replaced with new Lords.
2. All engine oil and fuel hoses replaced with new teflon from Precision.
3. All engine intake and exhaust seals and replaced with new.
4. All engine intake tube to oil sump rubber connector hoses replaced with new.
5. Engine mount tubes adjacent Turbos sanded and coated with heat resistant Ceramic paint as recommended by RayJay SL13.
6. Installed new electronic ignition unit (Pn SIM4P rev F, Sn 1523010) by SureFly in the left-hand position iaw SureFly installation manuals, inserted supplement into POH, 337 filed.
7. Installed overhauled Bendix Magneto (Pn 10-51360-37, Sn 974305) in the right-hand position. Due again in 500hrs.
8. Installed all new spark plugs and ignition harnesses: fine-wire were connected to Bendix and massive electrode to SureFly.
9. Installed overhauled engine fuel pump (Pn: 201F-5003, Sn: H-VEN023FP).
10. All turbo air hoses were replaced with new. Installed new V-clamps complying with AD23-09-09. Replace every 500hrs with new.
11. Replaced left engine exhaust pipe, aft of turbo with serviceable unit.
12. Replaced EGT probe on cylinder 1, left engine, with new.
13. Replaced most engine adel clamps and tie wraps with new.
14. Changed engine oil and filters.
15. Cleaned turbo oil filters.
16. Ran engines, adjusted mixtures and idles, no leaks.
17. Weight and balance change negligible.
18. Test flew, all indications normal.
19. All work performed iaw FAR 43 and/or manufacturer's manuals.

Pierre Doyon
A&P 2719660

TOTALS—Carry forward to next page

[illegible]

PIERRE DOYON
Attn: PIERRE DOYON
1030 LOCKLIN WAY

WOODLAND PARK CO 80863
United States

Aircraft: PIPER
S/N: 301577
Tail No.: N967EY-LH

910 MARIA STREET
KENNER, LOUISIANA 70062
(504) 469-6751
Date: 5/1/2023
Engine S/N: L334655A
Engine Model: LYC. 320

Values in (parenthesis) below your results are average values from all our analysis data for the same engine model with similar engine hours and oil hours. See www.avlab.com/explain for detailed explanation of the statistical analysis used with your laboratory results.

CURRENT SAMPLE		SAMPLE APPEARS NORMAL. Send next sample at normal interval.																																																																																											
Sample Date: 3/8/2023 Analysis Date: 4/17/2023 Sample Number: P333 Cylinder Type: unknown TSN/TSO: 1677.3 Oil Hours: unknown Filter Hours: Oil Added: Filter Wt. (mgs): Flashpoint(deg. F): H2O (ppm): Total Acid No.:		Normal Elevated High *** OIL ANALYSIS RESULTS IN PARTS PER MILLION *** <table border="1"> <thead> <tr> <th>Iron</th> <th>Copper</th> <th>Nickel</th> <th>Chromium</th> <th>Silver</th> <th>Magnesium</th> <th>Aluminum</th> <th>Lead</th> <th>Silicon</th> <th>Titanium</th> <th>Tin</th> <th>Moly.</th> </tr> </thead> <tbody> <tr> <td>13.4</td> <td>0.4</td> <td>0.7</td> <td>0.8</td> <td>N/A</td> <td>N/A</td> <td>5.2</td> <td>753</td> <td>2.3</td> <td>N/A</td> <td>< 0.1</td> <td>N/A</td> </tr> <tr> <td>(N/A)</td> <td>(N/A)</td> <td>(N/A)</td> <td>(N/A)</td> <td></td> <td></td> <td>(N/A)</td> <td>(N/A)</td> <td>(N/A)</td> <td></td> <td>(N/A)</td> <td></td> </tr> </tbody> </table> *** FILTER ANALYSIS RESULTS *** <table border="1"> <thead> <tr> <th>Material:</th> <th>Stainless Steel</th> <th>Carbon Steel</th> <th>Alloy Steel</th> <th>Bearing Alloy</th> <th>Copper</th> <th>Silver</th> <th>Magn.</th> <th>Alum.</th> <th>Grit</th> <th>Misc.</th> </tr> </thead> <tbody> <tr> <td>Amount:</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Type:</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Form:</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>												Iron	Copper	Nickel	Chromium	Silver	Magnesium	Aluminum	Lead	Silicon	Titanium	Tin	Moly.	13.4	0.4	0.7	0.8	N/A	N/A	5.2	753	2.3	N/A	< 0.1	N/A	(N/A)	(N/A)	(N/A)	(N/A)			(N/A)	(N/A)	(N/A)		(N/A)		Material:	Stainless Steel	Carbon Steel	Alloy Steel	Bearing Alloy	Copper	Silver	Magn.	Alum.	Grit	Misc.	Amount:											Type:											Form:										
Iron	Copper	Nickel	Chromium	Silver	Magnesium	Aluminum	Lead	Silicon	Titanium	Tin	Moly.																																																																																		
13.4	0.4	0.7	0.8	N/A	N/A	5.2	753	2.3	N/A	< 0.1	N/A																																																																																		
(N/A)	(N/A)	(N/A)	(N/A)			(N/A)	(N/A)	(N/A)		(N/A)																																																																																			
Material:	Stainless Steel	Carbon Steel	Alloy Steel	Bearing Alloy	Copper	Silver	Magn.	Alum.	Grit	Misc.																																																																																			
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Comments: OIL HOURS NOT GIVEN. PLEASE INCLUDE ALL INFORMATION WITH ALL SAMPLES FOR ACCURATE ANALYSIS RESULT INTERPRETATION AND WEAR METAL TREND MONITORING. ALL OIL VALUES SEEM FINE. WE WILL CONTINUE TO MONITOR THIS ENGINE WITH YOUR NEXT SAMPLE.																																																																																													

