



Transport
Canada

Transports
Canada

TP3910E

AIRCRAFT TECHNICAL LOGS

Section 3. ENGINE

Aeronautical Standards and
Legislation Branch

Mitchell Todd Bone
A&P 3492611 IA

[Handwritten signature]

Sept 19 2023	3057.6		3075.2
	3075.2		675.7

Apr 24/2024	3107.3		707.0
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Drained crankcase + re-filled with
Gardol Phillips 66 XC-20-50
Lubricated cam heat cables

(3108.0)

N1682A Lycoming O-290-D S/N 2110-21 Tach 3108.0 SMOH 708.0 03 OCT 2024
Annual inspection completed in accordance with 14 CFR 91.409(b)(1) and (b)(2)

Annual inspection completed in accordance with 14 CFR 43 Appendix D. Compression checked @80 Psi #1-76 #2-76 #3-70 #4-74. Oil changed inspected pressure screen & suction screen, no debris or metal present. Serviced with Phillips 20W50 oil + Camguard. Checked valve clearance IAW Lycoming Table of limits SSP-1776-5. Cleaned gapped tested and inspected all spark plugs. Replaced #3 cylinder exhaust studs and re-installed exhaust with 1 new 77611 gasket and new nuts and lock-washers. Replaced #3 & #4 EGT probes with new 712-2DW. Airworthiness Directives checked thru 2024-16. Run and leak checks good. Annual Inspection completed in accordance with the scope and detail of Appendix D to part 43. This engine was determined to be in airworthy condition.

Mitchell Todd Bone
A&P 3492611 IA



CARRIED FORWARD

TOTAL THIS PAGE

TOTAL FROM
PREVIOUS SUMMARY

TOTAL
SINCE MFG.

MAINTENANCE RECORD

REPAIRS, ADJUSTMENTS, MODIFICATIONS

ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.

SIGNATURE

LICENCE
NUMBER

Scored March 20	316 6487
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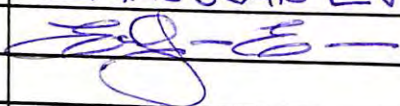
Lead & Malle	316468
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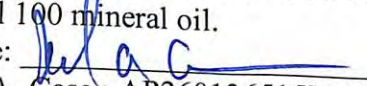
MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.

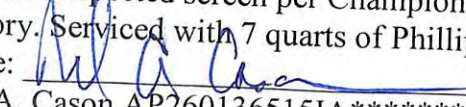
ENGINE SERVICE AND

MAINTENANCE RECORD

10

DATE	TIME RUN		TIME SINCE OVERHAUL		INSTALLATIONS, INSPECTIONS, NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE
	HRS.	MIN.	HRS.	MIN.	
Nov 18 2020					
CONTINUED - ALL ENGINE CONTROLS, ALL AD'S CHECKED & CURRENT					
TACH TIME: 2904.4 TIME SINCE MD = 503.7					
TIME SINCE TO = 222.3					
I CERTIFY THAT THIS ENGINE HAS BEEN					
INSPECTED IAW AN ANNUAL CHECK LIST					
AS PER AC 43 APP'D AND WAS DETERMINED					
TO BE IN AN AIRWORTHY CONDITION.					
EARL JOHN EVANS AP 25676781A					
					

Gann Aviation, Inc. Engine Logbook Entry
 Date: 07-16-21 N Number: 1682A Make and Model: Piper PA-20
 Engine Make: Lycoming Model: O-290D Tach: 2922.9 TSO: 522.2
 STO: 240.8
 Removed #1 cylinder due to crack installed a J&J Air Parts, Inc. JE2R921K
 overhauled cylinder P/N 67906 Ni WO#77395. Changed oil inspected screen per
 Champion Service Manual AV6-R. Found satisfactory. Serviced with 7 quarts of
 Aeroshell 100 mineral oil.
 Signature: 
 Richard A. Cason AP260136515IA*****END*****

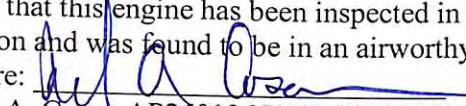
Gann Aviation, Inc. Engine Logbook Entry
 Date: 10-11-21 N Number: 1682A Make and Model: Piper PA-20
 Engine Make: Lycoming Model: O-290D Tach: 2949.2 TSO: 548.5
 STO: 267.1
 Changed oil inspected screen per Champion Service Manual AV6-R. Found
 satisfactory. Serviced with 7 quarts of Phillips 20W50XC oil.
 Signature: 
 Richard A. Cason AP260136515IA*****END*****

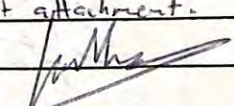
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 REPAIRS, ADJUSTMENTS, MODIFICATIONS
 ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.

SIGNATURE

LICENCE
NUMBER

Gann Aviation, Inc. Engine Logbook Entry
 Date: 12-03-21 N Number: 1682A Make and Model: Piper PA-20
 Engine Make: Lycoming Model: O-290DTC SN: 2110-21 Tach: 2962.2
 SMOH: 562.2 STO: 280.8
 Completed an Annual/100 Hr. Inspection per CFR 43 Appendix D and Piper Inspection
 Report. Compression check: #1.76/80, #2.72/80, #3.76/80, #4.70/80. Changed oil and
 filter. Inspected oil filter per Champion Service Manual AV6-R. Found satisfactory.
 Serviced with 6 quarts Phillips 20W50XC oil and Tempest oil filter. Removed cleaned
 Inspected and reinstalled suction screen. Replaced induction air filter with Brackett
 BA-4108. Cleaned, gapped, inspected and rotated spark plugs with new M674 gaskets.
 Retorqued rocker box covers.
 I certify that this engine has been inspected in accordance with an Annual/100 Hr.
 inspection and was found to be in an airworthy condition.
 Signature: 
 Richard A. Cason AP260136515IA*****END*****

April 5th 2022 @ Tach time 2990.5 → Valve back
 lash checked & adjusted as required IAW S.I 1068A,
 exhaust leak repaired @ cyl #2 exhaust attachment.
 Louis Moore AqP cert 3433775 

12 April TT 2992.4 SMOH 592.4 STO 311.0
 DRAINED CRANKCASE, CLEANED OIL SCREEN,
 NO CONTAMINANTS NOTED, REPLACED (RE-INSTALLED)
 SCREEN HOUSING + HOODING GASKET (REPLACED GASKET)
 SERVICED WITH 6 1/2 QUARTS PHILLIPS 66
 XC OIL. RAN + CHECKED FOR LEAKS. NONE
 NOTED Scott Macle ATP 3164687 Owner

27 July 22 TT 3022.8 SMOH 622.8 STO 341.4 Scott Macle ATP 3164687
 Drained crankcase, cleaned & inspected oil
 screen + housing no contaminants noted
 replaced oil temp sender crush gasket; replaced
 oil screen housing gasket; serviced with 7 quarts
 Aeros Phillips 66 XC 20-50, and run for leak

MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.

TOTAL THIS PAGE

TOTAL FROM
PREVIOUS SUMMARYTOTAL
SINCE MFG.

ENGINE SERVICE AND

MAINTENANCE RECORD

9

DATE	TIME RUN		TIME SINCE OVERHAUL		INSTALLATIONS, INSPECTIONS, NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE
	HRS.	MIN.	HRS.	MIN.	
03/09/2014			422	42	TACH TIME 2822.7 ANNUAL INSPECTION THIS DATE COMP ALL 70/80 OR BETTER. CHECK FOR LEAKS. GROUND RUN SATISFACTORY Vance A. Bible A/P 3220397 IA.
03/25/2016			425	78	TACH TIME 2826.3 ANNUAL INSPECTION THIS DATE GROUND RUN SATISFACTORY I CERTIFY THIS ENGINE HAS BEEN INSPECTED FOR AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION Vance A. Bible A/P 3220397 IA.
Dec 1, 2017			430.4	SMOH	TACH TIME 2826.5 SMOH 425.8 COMP. #1 70/80, #2 64/80, #3 60/80, #4 68/80 OIL CHANGED AROSH 20W50 NO FILTER. NEW AIR FILTER. REPAIR #4 CR TEND PROBO C/W AD 68-05-01 HOTT MUFF INSPECTION, NEW EXHAUST CLAMP. C/W AD 72-21-03, INSTALL NEW FUEL LINE TO CARB. P/N 417966-66 CHECKED + COPIED PLUGS GROUND RUN SATISFACTORY Vance A. Bible A/P 3220397 IA.
TOTAL THIS PAGE					
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TOTAL SINCE MFG.					

 REPAIRS, ADJUSTMENTS, MODIFICATIONS
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SIGNATURE

LICENCE
NUMBER

Precision Aviation Services Inc. 259 Edna Lane Cairo, GA. 39828

07-September-19 Tach: 2891.4

N1682A S/N 20848 Piper PA-20

Adjusted valve lash on all four cylinders. Installed four Real premium gaskets p/n RG-75906. Replaced bracket element with BA-4108. Removed upper rear baffle cleaned and replaced with new seal. Installed four barrel nuts in cylinders for the baffle and repaired one crack on cylinder #3. Serviced engine with 15W50. Checked oil screen and installed new gasket. Replaced #2 lead wire with used serviceable lead wire. Replaced all spark plugs p/n REM40E. C/W AD68-05-01 by inspection of exhaust due every 50 hours. I certify this aircraft engine has been inspected I/A/W annual inspection and was determined to be in airworthy condition.

Larry J. Bible A+P1908771IA

DECEMBER 10, 2019 - REMOVED THE COWLING TO REPLACE PUSH TACH-2891.0 TUBES ON CYLINDERS #1 & #3. INSTALLED NEW SEALS AT TOP & BOTTOM OF PUSH ROD TUBES. REMOVED INTAKE & EXHAUST SYSTEM & Baffles TO BACK THE CYLINDERS OUT TO REMOVED THE TUBES. AFTER REMOVING TROCKER ARMS, REASSEMBLED ALL SYSTEMS REMOVED & INSTALLED THE COWLING.
EARL JOHN EVANS AP 2567678

NOVEMBER 18, 2020 - REMOVED THE COWLING FOR AN ANNUAL INSPECTION
REMOVED THE TOP PLUGS FOR A COMPRESSION CHECK: #1-72/80, #2-74/80, #3-75/80 & #4-68/80 (LEAK AT RINGS) REMOVED THE BOTTOM PLUGS. CLEANED PLUGS, CHECKED THE GAPS & ROTATED UPON INSTALLATION. INSPECTED SPARK PLUG WIRES. DRAINED THE OIL & CLEANED THE SCREEN, NO METAL FOUND. SERVICED THE ENGINE WITH 8 QTS OF AEROSEAL 100. CHECKED THE TIGHTNESS OF ALL NUTS, BOLTS & CLAMPS. REPLACED THE THROTTLE CABLE WITH PIPER P/N MC455139. ADJUSTED CARBURETOR FOR FULL TRAVEL. INSPECTED THE EXHAUST, MUFFLER & SHROUDS FOR CRACKS. CLEANED THE GASOLATOR SCREEN & BOWL. CLEANED INDUCTION AIR FILTER. INSPECTED THE ENGINE MOUNTS. LUBRICATED

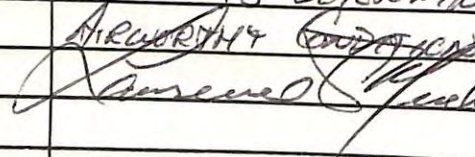
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MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.

ENGINE SERVICE AND

DATE	TIME RUN		TIME SINCE OVERHAUL		INSTALLATIONS, INSPECTIONS, NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE
	HRS.	MIN.	HRS.	MIN.	
BROUGHT FORWARD <u>2012</u>					
<u>11/18/12</u>			<u>399.5</u>		TACH TIME <u>2800.5</u>
			<u>420.9</u>		TACH TIME <u>2820.9</u>
<u>11/18/12</u>			<u>420.9</u>		I CHECKED THIS ENGINE HAS BEEN INSPECTED IAW ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRCRAFT CONDITION. <i>[Signature]</i> AIP 3220397 IA
Dec 1, 2012	2826.5 TACH	426.5 SMOI	CAMP #1 70%, #2 62%, #3 60%, #4 68%	OIL CHANGE 15W-50 API SHOCK - NO FILTER	REPAIR #4 CYL TEMP PROBE
			CW AD 68-05-01 HOTT MUFF BY INSPECTION. NON COMPL	CW AD 72-2103 INSTALL NEW FUEL LINE TO CARB	P/N 7246-66
			GROUNDBURN SATISFACTORY	<i>[Signature]</i>	AIP 3220397 IA
TOTAL THIS PAGE					CARRIED FORWARD
TOTAL FROM PREVIOUS SUMMARY					
TOTAL SINCE MFG.					

ENGINE SERVICE AND

DATE	TIME RUN		TIME SINCE OVERHAUL		INSTALLATIONS, INSPECTIONS, NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE
	HRS.	MIN.	HRS.	MIN.	
BROUGHT FORWARD →					
Jul 17, 2010	TACH	TIME	2183	.9	REMOVED #2 CYL. FOR LOW COMPRESSION.
	ENG	TIME	383	.9	REPLACED PISTON RINGS PER LYCOMING OVERHAUL MANUAL. LAPPED VALVE SEATS AND HONED CYL. USED RING SET FOR LYCOMING 4.875" CHROME BORES. RINGS USED WERE TITAN PRODUCTS COMP. RING AEL13883CC, 2ND COMP. RING AEL13883CC, AND OIL CONTROL RING AEL69401CC
I CERTIFY THIS ENGINE HAS BEEN INSPECTED IN AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION.					
 James D. Smith ID 3220397					
7/29/2010	3	06			TEST FLEW THIS DATE - FOLLOWED LYC. SERVICE INSTRUCTION #1427B FOR ENGINE BREAK IN. DRAINED OIL & CHECK OIL SCREEN FOR METAL NONE FOUND. REFILLED ENGINE WITH AERO SHELL 80WT MINERAL OIL. CHECKER FOR OIL & FUEL LEAK - OK
12/04/2010	TACH	TIME	2800	.5	CHANGED OIL THIS DATE, REMOVED MINERAL BREAK IN OIL AND REPLACED WITH AERO-SHELL 100.
	ENG	TIME	399	.5	
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TOTAL SINCE MFG.					

6

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MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.

ENGINE SERVICE AND

MAINTENANCE RECORD

5

DATE	TIME RUN		TIME SINCE OVERHAUL		INSTALLATIONS, INSPECTIONS, NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE
	HRS.	MIN.	HRS.	MIN.	
BROUGHT FORWARD					
			282	1	4-7-2005 TT 2682.1 I certify That This Engine has been inspected in accordance with an Annual inspection and was determined to be in Airworthy Condition. John Pundin AIP 378567334
			289	5	4-19-2005 TT 2689.6 CHANGED OIL, INSPECTED SCREEN, LIGHT BREAK IN DEBRIS NOTED, REMOVED CARB FUEL-TAILLET SCREEN, NO DEBRIS FOUND - RE-INSTALLED, RUN-UP & LEAK CHECK OK. Tim G. P. AIP 398908690
					5/4/2005 TT 2691.2 INSPECTED MALES JAW 500 HR INSPECTION (BENDIX MASTER SERVICE MANUAL) C/W A.D. 91-12-07 AND CHECKED INTERNAL TITANIC OF MALE. Tim G. P. AIP 398908690 John Pundin AIP 378567334
					5/4/2005 TT 2691.2 INSTALLED MALES & TITANIC TO ENGINE - RUN-UP, LEAK CHECK OK, TEST FLEW OK. Tim G. P. AIP 398908690
					8/5/2005 TT 2709.9 SET COLD CLEARANCE ON VALVES, INSPECTED CONDITION OF VALVE TRAIN USUALLY FOR ENGINE BREAK-IN PROGRESS. Tim G. P. AIP 398908690
					10-JAN 2006 TT 2729.7 CHANGED OIL, SERVICED W/ 6 QTS 2450 PHILLIPS 16K, RUN-UP LEAK V OK. Tim G. P. AIP 3014876
					CARRIED FORWARD
TOTAL THIS PAGE					
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TOTAL SINCE MFG.					

 REPAIRS, ADJUSTMENTS, MODIFICATIONS
 ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.

SIGNATURE

LICENCE
NUMBER
 6-2-2006 T.T. 2742.1
 CHANGED OIL & INSPECTED. #1 65/80 #2 65/80 #3 65/80 #4 65/80
 CHECKED CONTROLS, LUBED CLEANER & CAPTAIN PULS, RUN-UP, LEAK CHECK OK.
 I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED JAW
 AN 100TH INSPECTION AND WAS DETERMINED TO BE IN AN
 AIRWORTHY CONDITION. Tim G. P. AIP 3014876 (END)

 03-03-2007 TT 2761.5 CHANGED OIL, INSPECTED SCREEN
 CHECKED COLD VALVE CLEARANCE & ADJUSTED AS REQD, SERVICED
 WITH 6 QTS AEROSHELL 15W50, RUN-UP, LEAK CHECK OK, LUBED
 COUPLING, LUBED CONTROLS. Tim G. P. AIP 3014876 (END)

MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.

ENGINE SERVICE AND

MAINTENANCE RECORD

4

DATE	TIME RUN		TIME SINCE OVERHAUL		INSTALLATIONS, INSPECTIONS, NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE
	HRS.	MIN.	HRS.	MIN.	
BROUGHT FORWARD			202	0	17 JUL 02 TACH READS 2602.0 REMOVED & REPLACED CARB FLOAT, SET FLOAT LEVEL. CHECK ENGINE CONTROLS. FLUSHED FUEL SYSTEM. GROUND RUN-UP / LEAK CHECK OK. Timothy J. Poff AIP 398908690
					21 SEP 02 TACH READS 2614.8 PERFORMED COMPRESSION CHECK #1 69/80 #2 68/80 #3 69/80 #4 70/80 Timothy J. Poff AIP 398908690
					12 OCT 02 TACH READS 2617.1 CHANGED OIL, INSPECTED SCREEN NO METAL OR CONTAMINATION FOUND. GROUND RUN-UP & LEAK CHECK OK. Timothy J. Poff AIP 398908690
					12 JUNE 2003 TACH READS 2646.6 CHANGED OIL, INSPECTED SCREEN. CLEANED OIL PRESSURE VALVE. Timothy J. Poff AIP 398908690
CARRIED FORWARD					

REPAIRS, ADJUSTMENTS, MODIFICATIONS ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.		SIGNATURE	LICENCE NUMBER
03 SEPT, 2003 #1-71/80; #2-67/80; #3-70/80; #4-69/80 REMOVED PLUGS- CLEANED- REPLACED GASKETS; ADJUSTED MAGNETO TIMING; CHECKED CARBURETOR CONTROLS; REMOVED CARB. INLET SCREEN (CHECKED OK); REMOVED GASOLATOR CUP AND CHECKED SCREEN (OK); AD'S CHECKED FOR STATUS.			
I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 HOUR INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION. George O. Magel AIP 079268142 DATE - 03 SEPT, 2003 HRS - 2660.0			
I certify that this <u>ENG</u> has been inspected in accordance with a <u>100hr/Annual</u> inspection and was determined to be in Airworthy Condition. Time In Service: <u>2600.0</u> Date <u>9-03-03</u> Signed <u>Walt Fahn</u> 1/4 1251569			
04 APRIL 2005 TACH TIME 2682.1. AD'S CHECKED FOR STATUS. REMOVED CYLINDERS #1, #2, #3 & #4. REPLACED WITH OVERHAULD CYLINDERS SIN'S 83733-3, 83733-2, 83733-1 & 83733-4. REPLACED RINGS AND PISTONS WITH NEW. BORE SIZE STD. REPLACED STARTER RING GEAR AND GENERATOR BELT W/NEW. REPLACED ENGINE MOUNT BUSHINGS. STRIPPED OIL LINES AND INSPECTED FOR CORROSION, ETCHED, PRIMED & PAINTED. REPLACED AIR FILTER ELEMENT. REMOVED PLUGS. REPLACED WITH GAPPED & TESTED NEW PLUGS. INSPECTED ENGINE CONTROLS AND CARB HEAT BOX. REMOVED GASOLATOR CUP & INSPECTED SCREEN FOR DEBRIS & CONTAMINATION (OK). REPLACED FWD CRANK OIL SEAL. REPLACED OIL WITH 7QTS 50 WT MATERIAL FOR CYLINDER BREAK IN. REPLACED PISTON/PIN-PLUGS W/NEW. COMPRESSIONS TO BE CHECKED AT BREAK-IN / RUN WHEN RINGS SEATED. FAN LYCOMING OVERHAUL MANUAL AND 521037, & TPI004A. Timothy J. Poff AIP 398908690		04 APRIL 2005 TACH TIME 2682.1. I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 HOUR INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION. Timothy J. Poff AIP 398908690	

MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.

ENGINE SERVICE AND

MAINTENANCE RECORD

3

DATE	TIME RUN		TIME SINCE OVERHAUL		INSTALLATIONS, INSPECTIONS, NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE
	HRS.	MIN.	HRS.	MIN.	
BROUGHT FORWARD			196	12	10 MAR 1998 Tach reads 2596.2 HRS
					#1 76/80 #2 78/80 #3 76/80 #4 72/80 change oil, replace Air Filter element clean spark Plugs, check engine controls
					Ground Run up ok
					I CERTIFY THAT THIS Engine HAS BEEN INSPECTED IN ACCORDANCE WITH A Annual INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION. Stephen A Miller DATE 10 MAR 98 TIO E 2596.2 HRS.
					END 196.2 TSMO.
			201	5	21 MAY 1999 Tach reads 2601.5
					#1 72/80 #2 75/80 #3 71/80 #4 73/80 change oil, replace Air Filter element, clean + test spark Plugs, check engine controls, replace rear Baffleing seal, check muffler + shrouds ok
					Ground Run up ok
					I CERTIFY THAT THIS Engine HAS BEEN INSPECTED IN ACCORDANCE WITH A Annual INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION. Stephen A Miller DATE 21 MAY 99 TIO E 2601.5 HRS.
					201.5 TSMO
TOTAL THIS PAGE					CARRIED FORWARD
TOTAL FROM PREVIOUS SUMMARY					
TOTAL SINCE MFG.					

REPAIRS, ADJUSTMENTS, MODIFICATIONS ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.		SIGNATURE	LICENCE NUMBER
7 June 2001	Tach reads 2601.6 HRS ENG Time 201.6		
	#1 72/80 #2 71/80 #3 72/80 #4 72/80 change oil, check screen, replace Air Filter element, clean spark Plugs, check engine controls, check eng hoses for any blockage. check muffler + shrouds ok. wash eng compartment		
	I CERTIFY THAT THIS Engine HAS BEEN INSPECTED IN ACCORDANCE WITH A Annual INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION. Stephen A Miller DATE 7 June 2001 TIO E 2601.6 HRS.		
	201.6 TSMO.		
	END		
3 July 02	Tach reads 2601.7 ENG TIME 201.7 SMOH		
	#1 71/80 #2 71/80 #3 71/80 #4 71/80 replace Air Filter element, check engine controls inspect		
	Ground Run up ok		
	I CERTIFY THAT THIS Engine HAS BEEN INSPECTED IN ACCORDANCE WITH A Annual INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION. Stephen A Miller DATE 3 JULY 02 TIO E 2601.7 HRS.		

MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.

ENGINE SERVICE AND

1241
- Drain oil passage
I/A M 47 S.I.

DATE	TIME RUN		TIME SINCE OVERHAUL		INSTALLATIONS, INSPECTIONS, NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE
	HRS.	MIN.	HRS.	MIN.	
			194	02	11 MAR 97
Tach reads 2594.2 hrs.					
COMP #1 20/30 #2 25/30 #3 23/30 #4 24/30					
Replace oil Pump Gears with steel Gears					
KIT #05K19423-S Gears on. LW 18108 AND LW 18109					
new housing SK 58531. MOD rear case KYC SI1341					
Drill oil Passage. AD 96-09-10 C.W. change oil					
+ clean screens. Replace Air Filter element					
Repair CARB HT BOY. Adjust Gen. BELT inspect					
muffler + exhaust Flanges, clean + test spark					
Plugs, Free up throttle cable. replace c/shaft					
Gear SK 13519646, BOLT. TAB washer C.W. AD 91-14-22					
I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH THE INSPECTION AND MAINTENANCE MANUAL AND IS IN AIRWORTHY CONDITION TO BE IN SERVICE. DATE 11 MAR 97 BY [Signature] AS P #19360518-1A 2594.2 HRS. 194.2 TS/MC					
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TOTAL FROM PREVIOUS SUMMARY					
TOTAL SINCE MFG.					

Denotes
Rec.

MAINTENANCE RECORD

2

DATE	SUBJECT	REPAIRS, ADJUSTMENTS, MODIFICATIONS		NEXT DUE	SIGNATURE	LICENCE NUMBER
		ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.				
11 MAR 97	25-08-09	oil Pump Failure	X	N/A		
11 MAR 97	90-04-06	oil Line Failure	X	N/A		
11 MAR 97	91-14-22	Replace c/shaft Ret BOLT.	X	every prop stroke C.W. NEW BOLT		
11 MAR 97	93-11-11	Fuel Flow D.S.T.	X	N/A		
11 MAR 97	96-09-10	oil Pump Failure C.W. install Gears	X	C.W. install Gears		
11 MAR 97	54-02-01	DETonation Problems N/A	X	N/A		
11 MAR 97	60-11-08	cracked HOUSING	X	N/A this pump		
11 MAR 97	24-26-09	Bendy MAGS.	X	N/A these MAGS		
11 MAR 97	82-20-01	HOT TIGHT FLYWEIGHTS C.W.	X			
11 MAR 97	94-01-03	ROT MAG + BOLT	X	these MAGS OK		
11 MAR 97	MSB 644	OK these MAGS	X			
11 MAR 97	94-06-09	N/A these CAPACITORS	X			
11 MAR 97	96-12-07	impulse Couplings OK.	X	TT 3094.2		
11 MAR 97	MSB 645	C.W. impulse coupling ok	X	500ms 2694.2		
11 MAR 97	MSB 639	C.W. check for cracks.	X	500ms 3094.2		
4 MAY 05	96-12-07	impulse COUPLING OK	X	500ms 3191.2		
11 MAR 97	69-24-03	N/A	X	N/A		
11 MAR 97	72-06-05	C.W. SAFETY LINE OK	X	C.W.		
11 MAR 97	88-02-04	N/A this CARB	X	N/A		
11 MAR 97	93-18-03	C.W. 1 PC Venturi installed	X	C.W.		
11 MAR 97	98-19-04	N/A this FLUID	X	N/A		
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MAINTENANCE RECORD

DATE	TIME RUN		TIME SINCE OVERHAUL		INSTALLATIONS, INSPECTIONS, NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE
	HRS.	MIN.	HRS.	MIN.	
BROUGHT FORWARD →			136	7	Transferred from U.S. logs.
2536.8					engine inhibited as received, no 1 & 3 corrosion check, all found OK, eng
June 21, 93			136	7	PA20-848 C-FWCW. Serviced adjusted as necessary.
May 20, 94			161	10	minor propeller damage occurring during ground handling, prop removed, plugs removed & Dyglo dye penetrant all found overhauled by Hype Aero Propeller
June 10, 94			161	10	
June 24, 94			161	10	Annual 100hr inspection completed.
Nov 12, 94			170	10	oil changed by owner. 6litres Philips
Sept 14, 95			170	10	oil filter checked & cleaned. plugs gapped. Annual 100hr inspection completed.
Aug 31, 96			171	45	compression checked ① 71/80 ② 68/80 ③ 71/80 ④ 71/80 oil changed to Aeroshell 1 W80 Annual inspection completed.
CARRIED FORWARD					
TOTAL THIS PAGE					
TOTAL FROM PREVIOUS SUMMARY					
TOTAL SINCE MFG.					

REPAIRS, ADJUSTMENTS, MODIFICATIONS ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.		SIGNATURE	LICENCE NUMBER
cylinders removed to facilitate internal reassembly and installed on with Aeroshell 80 oil ground run and			
The maintenance discussed above has been performed in accordance with the applicable standards of airworthiness. Sig. <u>Junilcap</u> Date <u>June 21, 93</u>			
ground handling 152039 crank checked with dial indicator servicable. Prop reinstalled following salted & tracked.			
THE MAINTENANCE DESCRIBED ABOVE HAS BEEN PERFORMED IN ACCORDANCE WITH THE APPLICABLE STANDARDS OF AIRWORTHINESS. <u>Junilcap</u> SIGNATURE OF A.M.E. 152039 LICENCE NO. June 10, 94 DATE		<u>Junilcap 152039</u>	
The maintenance discussed above has been performed in accordance with the applicable standards of airworthiness. Sig. <u>Junilcap</u> Date <u>June 24, 94</u> 152039			
66. type m. compression checked ① 71/80 ② 68/80 ③ 71/80 ④ 71/80			
The maintenance discussed above has been performed in accordance with the applicable standards of airworthiness. Sig. <u>Junilcap</u> Date <u>Sept 14, 95</u> 152039			
The maintenance discussed above has been performed in accordance with the applicable standards of airworthiness. Sig. <u>Junilcap</u> Date <u>Aug 31, 96</u> 152039			
MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.			

ENGINE LOG

1. Make LYCOMING
2. Model O-290-D 125 HP
3. Specification _____
4. Mfg Serial No. ~~1236-21~~ 2110-21
5. Date of Manufacture 5 - 52

LYCOMING AVIATION ENGINE
AVCO MFG. CORP.

ENGINE MOD. O-290-D(A3) TC 229

ENGINE NO. 2110-21 SP ADV. 25°

FUEL OCTANE MIN. 80.

NORMAL RATED HP 125 AT 2600 RPM

TAKE OFF (5 MIN.) 130 HP AT 2800 RPM

RED GEAR RATIO ----- VALVE CL. 0.0 COLD

PATENT NO. -----

LYCOMING-SPENCER DIVISION-AVCO MFG. CORP.
WILLIAMSPORT, PA. USA

ENGINE LOG



PIPER AIRCRAFT CORP.,

LOCK HAVEN, PA.

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						
Nov	16, 1978	Tach Lim 7360.0							
I certify that this engine has been inspected 14/11/78 in annual inspection and was determined to be in Airworthy Condition. Changed oil, cleaned screen, replaced spark plugs, performed blower leak check op. Replaced Points R.H. Mag. y/w AD 78-9-7 364N-21 SP 788109 Just Day 14/666801									
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
DATE 2-29-80 ENGINE REMOVED DISASSEMBLED	
CHEARER, ALL STEEL PARTS MANUFACTURED	
ENGINE REASSEMBLED WITH NEW PISTONS #69958 P10	
RINGS # 62916 P10 RINGS 69401 P10 2 NEW RODS	
# 78030 3 ALL NEW BRG VALVES RHT 66531 GUIDES	
66529 P10 + 61681 P10 GASKET SET 69371-1 ALL	
WORK DONE PER LHC MANUAL MAG OVERHAUL	
PER BENDIX SERVICE MANUAL ENGINE GROUNDED	
RUN & TEST FLOWN, OIL PRESS & TRAMP MID	
GREEN.	
TACK 2400	
SMOIT 0	
TT ENG 2400	
"I certify that this engine has been inspected in accordance with annual inspection and was determined to be in airworthy condition."	
	2/2/80 ATD 2151964 Sup auth.

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 Year .. Mo. Day	R. P. M. Ground Air	Ground Time		Air Time		Total Time	
		Hrs.	Min.	Hrs.	Min.	Hrs.	Min.
76 6/11/76							
Annual inspection - checked compression #1 - 75/80 #2 - 72/80 #3 - 74/80 #4 - 68/80, cleaned & gapped plugs, cleaned air filter, & fuel screens Replaced #13 lower spark plug lead. I certify this engine has been inspected in accordance with an Annual Inspection & determined to be airworthy. A.D. list in rear of logbook. TTE = 2238 hr. TACH = 2238 hr. SMOH = 1270 hr. Don R. Smith ATP 2104542 EA							
TOTAL TIME							

ENGINE LOG

6/13/77 REMARKS SIGNATURE
 Total Time 2291.0 Total Time 2291.0
 TSMO 1323.0

Annual Inspection. Completed this time
and date in accordance with manufacturer and FAA
data to date. Compression check #1 75/80 #2 76/80
#3 64/80 #4 65/80 Screen pulled, and changed
100 w. aeroshell

Engine
 I certify this A/C has been inspected in
accordance with an annual inspection and was
determined to be in airworthy condition

Robert R. Clark
 AT 2104542

Engine Serial

NC

Date		R. P. M.		Ground Time		Air Time		Total Time	
Year				Hrs.	Min.	Hrs.	Min.	Hrs.	Min.
Mo.	Day	Ground	Air						
12	11	01	71	Checkups Compressor, Super plugs clean oil & fuel screen checked starter, Gen, mag. & system, motor Engine					
Tot. Total				18	75	H			
I CERTIFY THAT THIS AIRCRAFT HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AN AIR WORTHY CONDITION. Thomas R. Johnson AXP 13997202									
TOTAL TIME									

NOTICE:—Making false entries in this log is a violation of Federal Aviation Regulations and is punishable by law.

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

1994, 3

ENGINE LOG

REMARKS	SIGNATURE
1118173 Checkup Compressor, Fuel pumps, cleaned oil fuel screens, checked system mag. switch, fan, mount. Fuel lines Engine	
1918: hrs 1994.3	
I CERTIFY THAT THIS AIRCRAFT HAS BEEN INSPECTED IN ACCORDANCE WITH <u>Normal</u> INSPECTION AND WAS DETERMINED TO BE IN AIR WORTHY CONDITION.	
Simon R. Johnson	AXP 1399720IA

violation of the Civil Aeronautics Act of 1938, punishable by Civil Penalty.

Engine Serial

NC

[illegible]

ENGINE LOG

REMARKS

SIGNATURE

11/20/70 Checkup Compressor, Super plugs, check
oil & fuel screens, Check & replace
magn. Stutter, Gen, magnet.

to total 1737.2

I CERTIFY THAT THIS ~~ALCOHOL~~ ^{ALCOHOL} HAS
BEEN INSPECTED IN ACCORDANCE
WITH ANNUAL INSPECTION AND
WAS DETERMINED TO BE IN AIR-
WORTHY CONDITION.

Simon R. Johnson AXP1399720.IA

ENGINE LOG

REMARKS

SIGNATURE

11/11/69 checked compressor, spark plugs, cleaned oil
& fuel screens, installed new filter. Checked ex
muffler, starter, Gen, mount
Engine

Totals 16612 Hrs.
TSMO 6932 Hrs.

I CERTIFY THAT THIS AIRCRAFT HAS
BEEN INSPECTED IN ACCORDANCE
WITH annual INSPECTION AND
WAS DETERMINED TO BE IN AIR-
WORTHY CONDITION.

Simon K. Johnson ACP 1399720 IA.

ENGINE LOG

REMARKS

SIGNATURE

10/12/68 Checkup compression. Igniter plugs
cleaned oil & fuel screens. Checkup of system
mags. starter. Gen. mount.
Tor. & total 1560: H
T.S.M.O. 592: H

Engine
I CERTIFY THAT THIS AIRCRAFT HAS
BEEN INSPECTED IN ACCORDANCE
WITH Annual INSPECTION AND
WAS DETERMINED TO BE IN AIR-
WORTHY CONDITION.

Simon R. Johnson AXP1399720IA.

ENGINE LOG

REMARKS

SIGNATURE

6/20/67 checked compression. Spark plugs. Cleaned
oil & fuel screens, checked ex system, mag.
starter, Gen. ^{Engine}
Tot. & Total 1403:74

I CERTIFY THAT THIS AIRCRAFT HAS
BEEN INSPECTED IN ACCORDANCE
WITH Annual INSPECTION AND
WAS DETERMINED TO BE IN AIR-
WORTHY CONDITION.

Vernon R. Johnson. A4P1399720IA.

Engine Serial

NC

[illegible]

ENGINE LOG

REMARKS

SIGNATURE

16 May 1966	Loch	Time 1245.8	CHANGED oil & CHECKED oil	SCREEN, COMPLETED COMPRESSION CHECK INSP	GRN & STARTER BRUSHES, CLEANED TESTED & REINSTALLED 6 Plugs & 2 NEW PLUGS.
-------------	------	-------------	------------------------------	---	--

I certify that this ENGINE has been
inspected in accordance with a ANNUAL
inspection and was determined to be in
AIRWORTHY condition.

~~FLIGHT LINE INC~~

LINCOLN, NEBB

FLIGHT LINE INC. LINCOLN, NEBR.
James White ALP#1271145 13

ENGINE LOG

REMARKS

SIGNATURE

3 JUNE 1965 TACH TIME 1114.7 REPLACED
SPARK PLUGS, INSPECTED OIL SCREEN, INSPECTED
MAG POINTS & TIMING, COMPLETED COMPRESSION
CHECK, OTHER MINOR MAINT PERFORMED.

I certify that this PERLAIR has been
inspected in accordance with a PERIODIC
inspection and was determined to be in
AIRWORTHY condition.

FLIGHT LINE INC.

LINCOLN, NEBR.

James A. White 1114.7

Engine Serial

NC

[illegible]

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
8/13/63 Replaced crank shaft and seal no time left may 2nd July 1965	
5/23/64 Engine Majored this date. Disassembled all steel parts Magnified, Repair started at rear cover - cylinders ground to +.010 and new pistons & Rings installed. New - rod & Main bearings. New Exhaust valves & Guides, 2 new - springs & New - camshaft installed. Magns, Alternator & Starter checked, Carb - cleaned & Modified with Long loc. screws & float valve. Engine run 2 hrs on Ground & flight checked. Lloyd W. Carr 108510115	

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 law.

REMARKS

SIGNATURE

Changed oil & filter, cleaned screen
& plugs —

I certify that this Engine
has been inspected in accordance
with a Periodic inspection
and was determined to be in air-
worthy condition. AD notes thru
62-11 are complied with.

Frank O. Kuhn

1418286

A & P - I. A.

Date 5/26-62

W. A. 

Civil Aeronautics Act of 1928 punishable by Civil Penalty.

ENGINE LOG

REMARKS

SIGNATURE

I CERTIFY THAT THIS Engine
HAS BEEN INSPECTED IN ACCORDANCE
WITH Periodic INSPECTION AND
WAS DETERMINED TO BE IN AIRWORTHY
CONDITION.

DATE

7-15-61

TIME IN SERVICE

RT 652:

AD 60-26-2 Rev. Replaced Both Front Ex. Gaskets.

Staple E. Rose

ADP 1280810

ENGINE LOG

REMARKS

SIGNATURE

I certify that this aircraft has been inspected in accordance
with 100 hr inspection and was
determined to be in airworthy condition. T.T. 584 hrs.

Date 6-2-60 L.D. Lang

H+E 1423849

I certify that this aircraft has been inspected in accordance
with 6-2-60 Periodic inspection and was
determined to be in airworthy condition.

Date 6-2-60 E. J. Anthon

H+E 17631 Auth Insp.

NC

NOTICE:—Making false entries in this book is a violation of the Civil Aeronautics Act of 1926, punishable by Civil Penalties.

ENGINE LOG

REMARKS

SIGNATURE

6-4-53 Certificate of Airworthiness
 issued to Engine 6-4-54.
 A. Schmidt
 DAM 5438

15 JUNE 1954 - 100 hrs. inst. prior to annual. - ACA 319 filled out -
 washed engine down - cleaned & regreased plugs - installed new
 points & condenser in both mag's - No 1 & 2 cyl. exhaust
 gaskets replaced - cleaned oscillator & new gasket - AD 53-24-4
 complied with - cleaned air & oil screens - All G.S. through
 54-12 checked or complied with - Engine considering airworthy
 J. Smith 1236500 R&E. To 20 miles read 150 hrs. J. S.

Engine Serial

NC

[illegible]

NOTICE: Making false entries in this log is a crime.

ENGINE LOG

REMARKS

SIGNATURE

5/27/52 This aircraft & Engine removed from new storage,
this date Oil changed Plugs checked and Prop set all
Notes in AWS through 52-40 complied with. Engine Airworth
Capt W. Barr A/E 510115

6-4-53. 100 hr. in air for annual. Clean & gas plugs
change oil & dust new Filter. Check exhaust
stack & shrouds. Check intake bolts - check
mag points & timing. All AOs through 53-11
checked. It is certified that this Engine has
been inspected according to CRR and has
been found satisfactory. Jack Reids. 94.6
J. Dewey Schmidt
JRC 11/29/68

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 1682A
License No.

MANUFACTURER { Name Lycoming Div. AUCO Mfg. Co.
Address Williamsport, Pa.

Model O-290-UTC-227 H. P. 125 Serial No. 2110-21

Stroke 3 3/8 Manifold Pressure { Normal
Bore 4 3/8 Maximum

R.P.M. { Normal
Maximum 2600 B.H.P. { Normal
Maximum 125

Gear Reduction Ratio Rotation of Propeller Clockwise

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.