

TEXTRON Lycoming

N5310B



ENGINE LOG

1 PRIOR TO N52908

SSP-1872-1

TEXTRON Lycoming

652 Oliver Street
Williamsport, PA 17701 U.S.A.
717/323-6181

ENGINE LOG AND MAINTENANCE RECORD

RECORD OF TEXTRON LYCOMING TO-360-A3B6 L-28082-51A
MAKE MODEL SERIAL
FROM _____ 19 ____ TO _____ 19 ____
DETAILING TIME FROM _____ TO _____
HOURS HOURS

SSP 1872-1

October 1994

NEW RECIPROCATING ENGINE CERTIFICATE

This is to certify that the engine as described hereinafter has been manufactured run-in and tested as prescribed by **TEXTRON LYCOMING** specifications and Federal Aviation Regulations. No further run-in is required. All applicable Federal Aviation Administration Directives and Textron Lycoming Service Bulletins have been complied with at time of Manufacture.

MODEL IO-360-A3B6 SERIAL NO. L-28082-51A
DATE 12/6/98 Daryl Remington
(AUTHORIZED REPRESENTATIVE)

TEXTRON Lycoming

652 Oliver Street
Williamsport, PA 17701 U.S.A.

ENGINE DESCRIPTION

B/53796465
Crank^{shaft} Serial #
Per Poplar Grove
7/10/05

Place	Williamsport, PA 17701	Date	
Model	70-360-A3B6	Serial No.	L-28082-S1A
Max. H.P.		Weight (Dry)	
Max. R.P.M.		Oil Pressure	
Stroke		Displacement	Cu. In.
Supercharger Ratio			
Hub Design		Hub Serial No.	
Blade Serial No.		Blade Serial No.	
Max. Blade H.P.			
Diameter		Length	
Name			
Address			

ENGINE LOG

Serial No. _____

Date	Time		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
	Hrs	Min			
25 Feb 1999			Holder Reads to 172.1 Hours. Installed this Engine in Mooney N531AB, S/N 24-1449 as per STC, 5A 2506. New Engine mounts. All new fuel and oil hoses. Vbc pump was reinstalled. McCauley Prop Governor S/N 780714 P/N C290D55/124 was installed. A new 843212 Oil cooler was installed. Propeller was reinstalled after Service by Macmill Aircraft Services. Exhaust system was reinstalled. Aeroshell 65 non-det Oil was used.		
			Steve C. Mills ALP 1535316		
			Page Total		
			Brought Forward		
			Total to Date		

All Repair Data Must Bear the Endorsement of a Certified Mechanic, and his Rating and Certificate Number MUST be Shown.

ENGINE LOG

Serial No. _____

Date	Time		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
	Hrs	Min			
			I hereby certify that this (aircraft) has been thoroughly inspected as per existing (engine)		
			F.A.R.'s in accordance with a (annual) inspection and found to be in an airworthy (100 hr.) condition. Tach Time <u>120.9</u> Hrs. A/C Total Time <u>6316.4</u> Hrs.		
			T.S.M.O.H. <u>120.9</u> Hrs. Engine Total Time <u>120.9</u> Hrs.		
			Date of Prop O.H. <u>Nov 96</u> Time S.P.O.H. <u>652.1</u> Hrs.		
			Next annual inspection due <u>January 7, 2000</u>		
			<u>June 23, 1999</u> <u>WILLMAR AIR SERVICE</u> <u>480628281</u>		
			Signature and License Number WILLMAR AIR SERVICE, INC., WILLMAR, MINN.		
			Page Total _____	All Repair Data Must Bear the Endorsement of a Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.	
			Brought Forward _____		
			Total to Date _____		

ENGINE LOG

Serial No. _____

Date	Time		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
	Hrs	Min			
17 Sept 1999			compression check #1 74/80 #2 72/80 #3 73/80 #4 72/80. Retimed both Magneto's to 30° as per Datsun photo. Installed Serviceable tonix probes #2 cyl. Replaced Exhaust gasket #3 cylinder. Repositioned Propeller control. Cleaned & gapped Spark plugs. Checked exhaust system. Checked Starter & Alternator Brushes. Installed a new BA 6205 air filter. Washed engine & Runup Check completed. Cleaned fuel servo screen.		
			Page Total	All Repair Data Must Bear the Endorsement of a Certified Mechanic, and his Rating and Certificate Number MUST be Shown.	
			Brought Forward		
			Total to Date		

ENGINE LOG

Serial No. _____

Date	Time		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
	Hrs	Min			
			I hereby certify that this (aircraft) has been thoroughly inspected as per existing (engine)		
			F.A.R.'s in accordance with a (annual) inspection and found to be in an airworthy (100 hr.)		
			condition. Tach Time <u>196.6</u> Hrs. A/C Total Time <u>10371.0</u> Hrs.		
			T.S.M.O.H. _____ Hrs. Engine Total Time <u>196.6</u> Hrs.		
			Date of Prop O.H. <u>11-7-96</u> Time S.P.O.H. <u>860.7</u> Hrs.		
			Next annual inspection due <u>Sept 2000</u>		
			<u>17 Sept 1999</u> <u>Paul Bel</u> <u>AR47781355</u>		
			Signature and License Number WILLMAR AIR SERVICE, INC., WILLMAR, MAINE		
			Page Total	All Repair Data Must Bear the Endorsement of a Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.	
			Brought Forward		
			Total to Date		

ENGINE LOG

Serial No. _____

Date	Time		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
	Hrs	Min			
	Oct. 8	1999	TACH. 231.6 Hrs. O.I & Filter Change. Cut filter found no ferrous metal, CH48110 installed. 8qts Amsoil 15-50 Added. Opps check good no leaks.	[Signature]	
			[Signature] 472803013		
	Nov. 1	1999	TACH. 266.2 Hrs. O.I & Filter Change. Cut filter found no metal parts. Installed CH48110 filter and service. 8qts Amsoil 15-50 Added. Opps Run good. Found no leaks.	[Signature]	
			[Signature] 472803013		
			Page Total	All Repair Data Must Bear the Endorsement of a Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.	
			Brought Forward		
			Total to Date		

ENGINE LOG

Serial No. _____

Date	Time		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number	
	Hrs	Min				
Jan 26, 2000			Tach. 318.8. Compression check #1 74/80 #2 72/80 #3 70/80 #4 70/80 Changed oil and filter. Cut filter. OK. Installed new C.H. 48110. and filled sump with 8 qts Avco Shell 15-50. Cleaned and gapped spark plugs. Checked mag timing 20°. Checked A.H. and starter brushes. Repaired groundwire on A.H. Straighten flanges on #3 and #2 Exhaust. Installed new Exhaust gasket on #1-4 Cyls. Checked exhaust for leaks. Cleaned fuel injector nozzles. C/w AD 93-02 05 fuel lines. Installed new Air filter. B.F. 6205. Inspected propeller dress as needed. Replaced seat base from heat mitt to cabin. Checked Tands heater. Ran engine checked systems.	OUCR →		
			Page Total	All Repair Data Must Bear the Endorsement of a Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.		
			Brought Forward			
			Total to Date			

ENGINE LOG

Serial No. _____

Date	Time		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
	Hrs	Min			
			I hereby certify that this (aircraft) has been thoroughly inspected as per existing (engine)		
			F.A.R.'s in accordance with a (annual) inspection and found to be in an airworthy (100 hr.)		
			condition. Tach Time <u>318.8</u> Hrs. A/O Total Time <u>6493.2</u> Hrs.		
			T.S.M.O.H. _____ Hrs. Engine Total Time <u>318.8</u> Hrs.		
			Date of Prop O.H. <u>11-96</u> Time S.P.O.H. <u>9829</u> Hrs.		
			Next annual inspection due <u>Jan 2001</u>		
			<u>Jan 26, 2000</u> <u>Joe E. Smith</u> <u>AW 412803013</u>		
			Signature and License Number		
			Page Total		
			Brought Forward		
			Total to Date		

WILLMAR AIR SERVICE, INC. WILLMAR, MINN.

All Repair Data Must Bear the Endorsement of a Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.

ENGINE LOG

Serial No. _____

Date	Time		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
	Hrs	Min			
3-7-2000	-		Tach. 357.5 hrs, oil and Filter change, Drained oil added 8 qts Aeroshell 15-50 to sump. Changed oil Filter with new CH48110 Filter torqued and saffied to engine, Cut old filter, found no ferrous metal. Installed new LHT grade, Cleaned engine and test run checked for leaks. Found none.	<i>James E. Dovel</i>	ASP472803013
5-5-2000			Tach. 390.3 hrs, oil and Filter change, Drained sump. Added 8 qts Aeroshell 15-50, Removed filter and installed a new CH48110 filter. Cut and inspected old filter (OK) Cleaned engine, Test run. No leaks.	<i>James E. Dovel</i>	ASP472803013
			Page Total	All Repair Data Must Bear the Endorsement of a Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.	
			Brought Forward		
			Total to Date		

ENGINE LOG

Serial No. _____

Date	Time		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
	Hrs	Min			
6-9			Tach 429.8 Changed oil & Filter Shell/SW50 A.P.D. Hayes 480628281		
June 23, 2000			Tach 437.5 hrs. 100th Inspection. Compression test as follows, #1 76/80 #2 76/80 #3 76/80 #4 74/80. Oil and Filter change. Added 8 qts Avioshell 15-50. Installed a CHT48110. Inspection of old filter Normal. Checked, Looped, Tested, Retarded, and Re installed spark plugs, 500 hrs. Inspection of impulse Coupling and Magnosone, Rt. mag adjusted point timing, Left mag adjusted point timing and installed a new distributor block.		
			Page Total	All Repair Data Must Bear the Endorsement of a Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.	
			Brought Forward		
			Total to Date		

ENGINE LOG

Serial No. _____

Date	Time		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
	Hrs	Min			
			<p>Re-timed mags to 20° per plate plate, RD-93-62-05 was completed Removed and cleaned Fuel injectors. Muffler system OK. Washed engine down. Test run, installed.</p>		
			<p>I hereby certify that this (aircraft) has been thoroughly inspected as per existing (engine)</p>		
			<p>F.A.R.'s in accordance with a (annual) inspection and found to be in an airworthy (100 hr.)</p>		
			<p>condition. Tach Time <u>437.5</u> Hrs. A/C Total Time <u>6011.9</u> Hrs.</p>		
			<p>T.S.M.O.H. _____ Hrs. Engine Total Time <u>437.5</u> Hrs</p>		
			<p>Date of Prop O.H. <u>7/56</u> Time S.P.O.H. <u>11066</u> Hrs</p>		
			<p>Page Total annual inspection due <u>fly 2001</u></p>		
			<p>Brought Forward</p>		
			<p>Total to Date <u>fly 2001</u></p>		
			<p>Date _____</p>		

All Repair Data Must Bear the Endorsement of a
 Certificated Mechanic, and his Rating and
 Certificate Number MUST be Shown.

Signature and License Number
 WILLMAR AIR SERVICE INC. WILLMAR MINN

ENGINE LOG

Serial No. _____


Date	Time		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
	Hrs	Min			
Aug 28, 2000			Tach. 487.1 Oil and Filter change. Filled sump with 8 qts Shell 1550 New CH48110 Filter Oil filter was cut open. Replaced Test run engine No leaks for 5 days 480628281		
Sept 10 2000			TACH 492.1 INSTALLED New 4371 Left Magneto 8 New REM 38E SPARK Plugs Ground Run Check System to BEOK AEPD Harper 480628281		

	Page Total
	Brought Forward
	Total to Date

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Certificate Number MUST be Shown.

ENGINE LOG

Serial No. _____

Date	Time		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
	Hrs	Min			
Oct. 16 2000			Tach. 561.0 hrs. 100 hr. Inspection, Compression, #1 76/80		
#2 77/80			#3 78/80 #4 73/80. O.I. changed, Hevozell 15-50, New CH4810. Cut open		
			old filter. No metal. Cleaned, and gapped spark plugs. Checked mag housing.		
			C/w 93-02-05(1) lines in good condition. Installed new alternator brushes.		
			Installed a new Bk-6205 Air filter. Installed a new Strauts Vac. Pump.		
			Per. ANALISE S/w NO 766. Pressure tested muffler. Installed a new Intake		
			gasket on #2 cyl. Serviced spinner, blades, and hub. Washed engine.		
			Run up completed.		
					
			Page Total	All Repair Data Must Bear the Endorsement of a Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.	
			Brought Forward		
			Total to Date		

ENGINE LOG

Serial No. _____

Date	Time		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
	Hrs	Min			
			I hereby certify that this (aircraft) ^(engine) has been thoroughly inspected as per existing F.A.R.'s in accordance with a (annual) ^(100 hr.) inspection and found to be in an airworthy condition. Tach Time <u>561.0</u> Hrs. A/C Total Time <u>6745.94</u> Hrs. T.S.M.O.H. _____ Hrs. Engine Total Time <u>561.0</u> Hrs. Date of Prop O.H. <u>11-99</u> Time S.P.O.H. <u>1235.1</u> Hrs. Next annual inspection due <u>Oct 18, 2000</u> Date <u>Oct 18, 2000</u> Signature <u>James E. Decker</u> License Number <u>ADP/MD 803013</u>		
			Page Total Brought Forward Total to Date		

WILLMAR AIR SERVICE INC. WILLMAR MINN
 All Repair Data Must Bear the Endorsement of a
 Certificated Mechanic, and his Rating and
 Certificate Number MUST be Shown.

ENGINE LOG

Serial No. _____

Date	Time		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
	Hrs	Min			
5/10/01	Tach		673.2 100 Hr Inspection complete this Date. Compression 1.74 @ 73 3.73 4.74. Changed oil and filter. Serviced with 5QT Aeroshell 15W-50 and CH48110 filter. Cut and inspected old filter no metal found. Installed new Intake Gaskets #2 & #3 cyl Inspected Exhaust. Cleaned fuel screen. Timed Mags. Cleaned fuel Nozzles. Inspected Fuel Nozzle Lines as per 93-03-05 c/k OK. Lycoming SB No. 549 DWA as per S/N. Run-up and Leak c/k OK. Cleaned and capped spark Plugs <div style="text-align: right; margin-top: 10px;"> <i>Brian Orin</i> AWP 471130665 </div>		
			Page Total		
			Brought Forward		
			Total to Date		

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ENGINE LOG

Serial No. _____

Date	Time		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
	Hrs	Min			
			I hereby certify that this (aircraft) has been thoroughly inspected as per existing (engine)		
			F.A.R.'s in accordance with a (annual) inspection and found to be in an airworthy (100 hr.)		
			condition. Tech Time <u>673.0</u> Hrs. A/C Total Time <u>68576</u> Hrs.		
			T.S.R.O.H. ^{New} <u>673.0</u> Hrs. Engine Total Time <u>673.0</u> Hrs		
			Date of Prop O.H. <u>11-96</u> Time S.P.O.H. <u>13473</u> Hrs		
			Next annual inspection due <u>May 2002</u>		
			<u>May 10, 2001</u> <u>William</u> <u>A01471130665</u>		
			Signature and License Number		
			WILLIAM AIR SERVICE INC. WILLMAR, MINN		
			Page Total		
			Brought Forward		
			Total to Date		

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ENGINE LOG

Serial No. _____

Date	Time		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
	Hrs	Min			
Aug 7, 2001			Tah 7873 100 hr Inspection. Compression as follows #1 76 #2 72 #3 78 #4 70/80. Oil and Filter changed. Sats Aeroshell 15-50. New CH48110. No metal in old filter. Cleaned and capped 4 spark plugs. In stall 4 new REM 38E's in bottom Cyl checked mag timing as per data plate. 20° checked AHT, and Starter brushes. Cleaned Fuel Nozzles. C/w All 93-02-05(C) Cyl Fuel lines by inspection. Installed a new BA6205 Air filter. Inspected Exhaust system. Checked engine controls stop to stop lubed. Inspected Prop hub and spinner. Dressed Prop. Engine was washed w/42 Solvent. Installed a new Intake gasket #2 Cyl.		
			Page Total		
			Brought Forward		
			Total to Date		

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ENGINE LOG

Serial No. _____

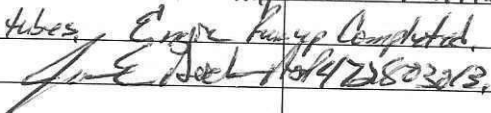
Date	Time		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
	Hrs	Min			
			I hereby certify that this (aircraft) has been thoroughly inspected as per existing (engine)		
			F.A.R.'s in accordance with a (annual) inspection and found to be in an airworthy (100 hr.)		
			condition. Tach Time <u>7873</u> Hrs. A/C Total Time <u>6966.7</u> Hrs.		
			T.S.M.O.H. _____ Hrs. Engine Total Time <u>789.6</u> Hrs		
			Date of Prop O.H. <u>11-96</u> Time S.P.O.H. <u>1461.4</u> Hrs		
			Next annual inspection due <u>August 2002</u>		
			<u>Aug 7, 2001</u> <u>Jan E. Doch ASP472803013</u>		
			Signature and License Number		
			Page Total		
			Brought Forward		
			Total to Date		

WILLMAR AIR SERVICE

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ENGINE LOG

Serial No. _____

Date	Time		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
	Hrs	Min			
SEPT. 7, 2001			Tach 821.9 changed oil + Filter. Installed 8QTS Aeroshell 15W50 and new CHUS110 Filter. CUT OLD Filter. (contents checked) normal. Grounded engine. NO Filter leaks noted. TAC Book AP417781355		
Sept. 28, 2001			Tach. 862.5 hrs. oil and Filter change 8qts Aeroshell 15W50 - A new CHUS110. No metal in old filter. Installed a precise flight Stand by Valve System according to STA SE177950M. Installed a repaired muffler and 2 new intake washers and seals on #2 & #4 tubes. Engine Run up Completed. See 337 and Muffler tag in Airframe log.		
			Page Total	All Repair Data Must Bear the Endorsement of a Certified Mechanic, and his Rating and Certificate Number MUST be Shown.	
			Brought Forward		
			Total to Date		

ENGINE LOG

Serial No. _____

Date	Time		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
	Hrs	Min			
10-25-01			Tech. 887.7 hrs, oil and filter changed, Egt Avastell CH4811B No metal in old filter. Engine Pump completed.	15-50-9 New	
				John E. Davis	As 473803013
Dec 14 2001			Tach 916.0 100 hr Engine Comp - 1 76/80 2 72/80 3 76/80 4 73/80 Changed oil Shell 15050 Changed oil Filter CH48103 no metal in old filter INSTALLED Prop AFTER overhaul - Tested Gapped Reinstalled Spark Plugs - Reworked Both Magnets for 500m Check		
			Page Total	All Repair Data Must Bear the Endorsement of a Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.	
			Brought Forward		
			Total to Date		

DATE _____

Service Bulletins, Letters, Instructions & A D Notes

Both Magnetos now have New points and
Distributor Block Assy. Time To Engine.
Check Exhaust To be OK - INSTALLED
Serviceable used MZ6221 STARTER.

Ground Run Engine No oil leaks
Found -

OVER

DATE _____

Service Bulletins, Letters, Instructions & A D Notes

Tach 931.1

Changed oil and Filter
CH48110 Filter - Shell 15W50 oil
Ground Run check no oil leaks at
Filter - No Metal in old Filter
A&P D-Keys #P060P281

27 March 2002 Tach Reads 989.2 Oil and filter change complete
serviced with 8Qts Aeroshell 15W-50 and Champion CH48110 Filter. Cut
and inspected old filter no metal found. Run-up and leak c/k.
OK
A&P D-Keys #P471130665

Service Bulletins, Letters,
Instructions & A D Notes

DATE _____

AD

2000-18-53

Tech.

5252

Eng. does not Apply.

Jane E. Deneke
No 472803013

Hand Log

ELECTROSYSTEMS, INC.

Airport Complex
P. O. Box 273
Ft. Deposit, Alabama 36032 USA
334/227-6506
FAX 334-227-6596

WARRANTY DATA CARD

The following information must be supplied when requesting warranty consideration.

Mfg. Fire	MZ6033	8067088
MFR	P/N	S/N
DATE INSTALLED	DATE REMOVED	
10/21/98		
6097.0		
TACH TIME	TACH TIME	
OWNERS NAME <u>Duinnick Brothers</u>		
ADDRESS <u>Prinsburg, MN 56081</u>		
PHONE <u> </u>		

RETAIN THIS CARD WITH AIRCRAFT LOG BOOKS

down, 10 seconds on, shut down to cool 15 minutes.

- 4. Do not apply power to starter unless installed on engine. Free run may cause internal damage.
- 5. Maximum Terminal Stud Torque - 40 In. Lbs.

Burnsville, MN 55337
1-800-597-4315