



The Standard
ENGINE LOG

SA/SE-1

TEXTRON Lycoming

Williamsport Plant
Textron Lycoming/Subsidiary of Textron Inc

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

ENGINE SERIAL NUMBER

L	-	9	3	3	6	-	6	1	A		
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IN SERVICE DATE

0	6	0	1	9	2	ENG.	2	3	.	3
						T.T.				

DETACH AND RETAIN THIS PORTION FOR YOUR RECORD

ENGINE RECORD — GENERAL INFORMATION

AF13

MANUFACTURER Lycoming MODEL TIO-540-AF1A

SERIAL L-9336-61A TYPE CERTIFICATE E14EA

THIS ENGINE IS CURRENTLY INSTALLED IN AIRCRAFT Mooney M20M 27-0132 N46BL
Engine Timed 20° BTC.

MINIMUM OCTANE FUEL _____ OIL GRADE SUMMER _____ WINTER _____

MAGNETO TIME _____ POINT SETTING _____ FIRING ORDER _____

SPARK PLUG GAP _____

MFG. RECOMMENDED OVERHAUL AT 2000 HOURS.



The Standard

ENGINE LOG

DATE 1992	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
7-14	42	10QT	42	Bill Larson 91022
8-10	68	10QT	68	Bill Larson 91022
9-29	95	10QT	95	Bill Larson 91022
11-13	119	10QT	119	Bill Larson 91022
1931/2	145	10QT	145	Bill Larson 91022
5-17	169	10QT	169	Bill Larson 91022
7-23	198	10QT	198	Bill Larson 91022
7-14-93	188.5	—	188.5	ANNUAL INSP. checked compression #1. 76/80 #2. 77/80 #3. 77/80 #4. 78/80 #5. 76/80 #6. 77/80. checked mag. timing to eng. cleaned, insp. and reinstalled fuel injector nozzles. inspected exhaust system. lubricated all controls. cleaned, reggapped, and reinstalled sparkplugs - inspected electrical

Next page →

DATE 19 <u>93</u>	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
9-12	223	10QT	223	Bill Larson 91022
11-14	248	10QT	248	Bill Larson 91022
3-2-94	274	10QT	274	Bill Larson 91022
5-31-94	298	10QT	298	Bill Larson 91022
8-31-94	347	10QT	347	Bill Larson 91022
10-7-94	381	10QT	381	Bill Larson 91022
1-30-95	408	10QT	408	Bill Larson 91022
4-14-95	437	10QT	437	Bill Larson 91022
6-5-95	466	10QT	466	Bill Larson 91022
7-27-95	492	10QT	492	Bill Larson 91022
8-27-95	520	10QT	520	Bill Larson 91022
10-13-95	546	10QT	546	Bill Larson 91022

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July 26/1944	Hobbs	323	100h Engine	<p>Compression 1 79/80 2 78/80 3 77/80 4 78/80 5 78/80 6 77/80. Changed oil Shell 15W50 changed Filter CH48108 INSTALLED Overhauled Turbo from Lycoming INSTALLED New ALTERNATOR. INSTALLED overhauled Prop Governor - Lubed controls - Ground bus As per Mooney instructions - Cleaned Plugs For more details check work order 1500 AT willmar Min. 56201</p>

DATE 19__	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
				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>323</u> Hrs. A/C Total Time <u>323</u> Hrs.
				T.S.M.O.H. _____ Hrs. Engine Total Time <u>325</u> Hrs.
				Date of Prop O.H. _____ Time S.P.O.H. <u>New 322</u> Hrs.
				Next annual inspection due <u>July 1995</u>
				<u>July 26 1994</u> CRST RR0138
				Date _____ Signature and License Number <u>D. Hayes</u> WILLMAR AIR SERVICE, INC., WILLMAR, MINN.

THE AIRCRAFT AND/OR COMPONENT
IDENTIFIED ABOVE WAS REPAIRED AND
TESTED IN ACCORDANCE WITH
CURRENT REGULATION OF THE FEDERAL
AVIATION ADMINISTRATION AND IS
APPROVED FOR RETURN TO SERVICE.
PERTINENT DETAILS OF THE REPAIR
ARE ON FILE AT THIS REPAIR STATION.
UNDER ORDER # 1511 DATE 7/26/94
SIGNED D. Hayes
FOR WILLMAR AIR SERVICE INC.
CIS 18R013F

Date _____ Signature and License Number
July 26 1994 CRST RR0138
D. Hayes
WILLMAR AIR SERVICE, INC., WILLMAR, MINN.

DATE 1995	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
8/17/95	512.7		512.7	No oil change, c/w S.B. 518c dry insp of oil temp. valve - OK, due again 8/96. c/w A.D. 93-02-05 dry insp of fuel injector lines - OK due again next annual or 100hour inspection. A.D. 94-14-13 N/A to 'N' number. A.D. 95-07-01 N/A to Textron Lycoming factory engine. New spark plugs installed P/N RHB37E. Slick S.B. 1-86A + 1-89 c/w
COMPRESSION				
1) 77/80	2) 78/80	3) 79/80		dry 500 HR insp by Lycoming. Replaced intercooler strut bolt P/N LW-38-075.
4) 77/80	5) 78/80	6) 76/80		Checked oil level, checked spark plugs, checked compression, checked fuel system, drained sumps, checked starter and generator handles , checked nuts and timed properly, checked prop for leaks and grease.
				Functionally checked engine.

DATE 8/17/95 TACH 512.7 TOTAL TIME 512.7
I certify that this ENGINE has been
inspected in accordance with AN ANNUAL
inspection and determined to be in airworthy
condition.


Signed: Brian Kotso
LA 303 764158

DATE 19__	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
12-6	573	573	573	10GT Bill Larson 91022
1-6-96	600	600	600	10GT Bill Larson 91022
3-2-96	630	630	630	10GT Bill Larson 91022
7-2-96	662	662	662	10GT Bill Larson 91022
10-9-96	717	717	717	10GT Bill Larson 91022
1-3-97	744	744	744	10GT Bill Larson 91022
3-6-97	770	770	770	10GT Bill Larson 91022

DATE 08/18/96 ENG. SN#L-9336-61A ENGINE TT 687.8 SOH 687.80

ENGINE TIO540AF1A N# 46BL TACH TIME 687.80 HOBBS

THIS AIRCRAFT OR COMPONENT HAS BEEN REPAIRED/INSPECTED IN ACCORDANCE WITH FEDERAL AIR REGULATIONS FOR 100 HR / ANNUAL INSPECTION AND WAS FOUND AIRWORTHY FOR RETURN TO SERVICE.

DESCRIPTON OF WORK	AD	COMPLIANCE METHOD	NEXT DUE
#1 75/80 #2 75/80 #3 75/80 #4 70/80 #5 75/80 #6 70/80 R&R OIL & FILTER SERVICED WITH 12 QTS OF AEROSHELL 15W50 CLEANED AND GAPPED ALL SPARK PLUGS R&R MAGNETO P/N 6360, 6361 R&R #4 VALVE COVER GASKET P/N 75906	93-02-05	INSP. FUEL INJ. LINES	787.80

SIGNED *Michael Jeffman* CERT # *546827270 1A*
SOUTHERN AVIATION MAINTENANCE 19711-B CAMPUS DRIVE SANTA ANA 92707 (714)852-8420

DATE

19__

MODEL M20M
S/N 27-0132
REG # N46BL
ENG MOD T10-540-AF1A
ENG S/N L-9336-61A

CUTTER AVIATION, INC.

Sky Harbor Airport
Phoenix, Arizona
602-273-1237

FAA Approved Repair Station No. EKGR571D

W.O. # J3650
HOBBS TIME 818.0
ENGINE TSD 818.0

(NUMBER OF ENTRIES.)

Completed annual inspection per Mooney M20 series inspection guide; cylinder compression check #1 78/80 #2 77/80 #3 77/80 #4 78/80 #5 77/80 #6 78/80; changed oil and filter, serviced with Aeroshell w100; oil sample taken for analysis; oil filter cut open and inspected; cleaned, gapped, tested and rotated lower spark plugs; replaced upper spark plugs; adjusted left magneto to engine timing; complied with AD 93-04-05 fuel injector lines inspection; dressed prop; ground ran, operational & leak checked OK.

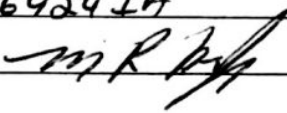
I CERTIFY THAT THE ENGINE IDENTIFIED ABOVE WAS INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND DETERMINED TO BE IN AIRWORTHY CONDITION. DETAILS ON FILE AT THIS AGENCY.

DATE 09/02/97 SIGNED

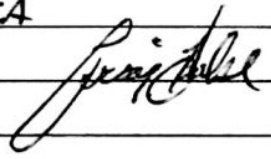


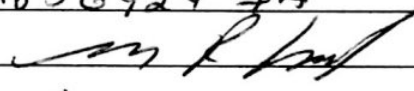

*****END*****

DATE 1998	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
1-13-98		Hobbs	861.4	1 Install Hycorning Kit 05K22169 & CW Mancy Service Instructions M20-101C 3. Change oil Shell 40 ND 4 Change Oil Filter 5. Change All Rocker Shatt 6 Rework All Rocker Arm 7 Change one Push Rod 8 Change All Rocker Cover Gasket API 856924 IA <i>M R King</i> (New Cyls. & Pistons Brand upgrade)
5-04	890	10gts	890	change oil & sample (OK) SKB
9-06	947	10gts	947	change oil & filter SKB

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10	-15-98		Tach 976.1	
			1 change Aux Vacuum Pump	
in				I certify that this engine has been inspected in accordance with an Annual Inspection and was determined to be in Airworthy Condition
			AP1856924JA	
				


DATE 19__	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
	11-5-99		Tach 1134.0	
				1 Change oil Shell 15-50 & Change oil Filter
				3 Replaced Air Filter
				I Certify That This engine has been inspected
				in accordance with an Annual inspection and was
				determined to be in Airworthy Condition
				A# 1856924 JA
				<i>MR [Signature]</i>




DATE 19__	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
12-14-00		TACH H3863	1280.6	
				<p>I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION.</p>
				AP 528199237EA
				

DATE 19__	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
12-13-01	Tach	1353.4		1 Change oil Shell 15-50 2 Change oil Filter I certify that this engine has been inspected in accordance with an Annual Inspection and was determined to be in Airworthy Condition A P 1856924 IA 
4-25-02	Hoops	1416.2		1 Change oil Shell 15-50 2 Change oil Filter 3 1066 Gear A P 1856924 IA 

DATE 19__	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
17 DEC 07	HOBBS	15	16.0	
				1- CHG'D ENG OIL. ADDED 10 QTS SHELL 15W50
				2- CHG'D ENG OIL FILTER. CUT OPEN OLD FILTER NO METAL FOUND.
				3- REPAIRED CRACKED EXHAUST STACK.
				4- REPLACED #3 EGT PROBE.
				5- GND RUN. NO LEAKS FOUND.
				I CERTIFY THAT THIS ENG HAS BEEN INSPECTED ON ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION.
				AP 52619237ID <i>[Signature]</i>

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1/20/03	TACT	1520.0	Repaired	# 5 lower spark plug lead and repositioned lead. Cleaned #1 lower plug. run up ok. Gh Nantz for SAN Diego Automotive CRS 00BR9669
25 FEB 03	H0335	1526.3		REPLACED BOTH MAGNETOS WITH NEW OF SAME PART #'s, 1 EA. BENDIX 6360 & 1 EA BENDIX 6361. GND RUN CHK OK. Jung Ankel AP 52819923TIA

DATE 19__	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS <small>ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)</small>
				<p>The Flight Shop, Inc./435-723-3469 Hobbs 1605.4 01/09/2004</p> <p>1. Changed oil using shell 15-50; 2. Changed oil filter; 3. Top OH #1 cylinder.</p> <p><i>I certify that this engine has been inspected in accordance with an annual inspection and was determined to be in an airworthy condition.</i></p> <p>AP1856924IA  License Number Authorized Signature</p>

DATE			OF ES.)
19__	MAKE: Mooney MODEL: M20M S/N: 27-0132 REG. NO: 46BL WORK ORDER: 1591-07-2005	 Cruiseair Aviation, Inc. Repair Station No. LF3R655L 2428 Montecito Road Ramona, CA 92065 Phone: (760)789-8020	DATE: 7/15/2005 A/C TSN: 1781 HOBBS: 1781
	ENGINE Entries		
	tested # 1 spark plug leads cleaned and gaped lower spark plugs performed compression check on #1 cyl. test run checked good.		
	Maintenance Release The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Air Regulations and was found airworthy for return to service. Pertinent details of the repair are on file at this agency on Work Order shown above.		
	DATE: 7/15/2005	SIGNED:  David Curtis Certified Repair Station No. LF3R655I	Work Order: 1591-07-2005
			Printed by EBis 3 (datcomedia.com)
	The Flight Shop, Inc. 435/723-3469	N46BL	8/16/05
			Hobbs 1794.2
	1. Change engine ignition harness.		
	<u>AP1856924IA</u> License Number	 William R. Bridges	

DATE 19__	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
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The Flight Shop, Inc./435-723-3469 N46BL 5/9/06 HOBBS 1800.3

Engine

1. Change oil Shell 15-50; 2. Change oil; 3. Reset throttle fuel pump switch.

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

AP1856924IA
License Number


William R. Bridges

	10-21-06			Hobbs 2967.2
				Change oil Shell 15-50 - 2 Change oil Filter
				Owner

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The Flight Shop, Inc./435-723-3469 N46BL 4/19/07 Hobbs 1902.4
Engine

1. Changed oil using Aeroshell 15-50; 2. Changed oil filter; 3. Replaced exhaust gasket on wastegate.

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

AP1856924IA
License Number


William R. Bridges

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STC AVIATION SERVICES, LLC

Date: 3 March 2010

N# N46BL Type A/C M20M Total Time 2063.4 Tach/Hobbs 2063.4 ETT 2063.4

Completed 100 hr Inspection per CFR 43 Appendix D. C/W AD2003-14-03 para (b)(2), AD2004-10-14 no strike, AD2008-14-07 Para (j), AD2009-02-03 para (i) installed new 2577258 gasket. Engine has been test run and leak checked. Owner notified engine exceeds recommended TBO.

The / Engine/or component identified above was repaired and inspected in accordance with a 100 hr inspection and was found airworthy for return to service.

Signed 
Brent Roberts AP3295375IA

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9-13-10			Hobbs	2078.5
	Removed		01	AP1856924JA <i>m A [signature]</i>

DATE: 11-12-2010

TTSN: 2078.5

HOBBS: 2078.5

MODEL: TIO-540-AF1B

SERIAL: L-9336-61A N46BL

This engine was a Overhauled this date in accordance with Lycoming Parts Manual PC-315-8 and Overhaul Manual 60294-7. Crankcase Overhauled and Certified by CSI, see release form. Crankshaft Overhauled, Balanced and Certified M.003, see release form. New Lycoming LW19340 Camshaft with Lifters and Hydraulic Units, see release forms. Connecting Rods Overhauled, Balanced and Certified, see release form. All Internal Steel Overhauled and Certified, see release form. Engine assembled with the following new parts; 2 each 18A26093M03 Front Main Bearings; 6 each 18D26098M03 Main Bearings; 12 each 18M26105M03 Rod Bearings; 12 each 75061 Rod Bolts; 12 each LW12186 Rod Nuts; 1 each STD-2247 Crank Gear Bolt; 1 each AN565B1032H5 Set Screw; 6 each New 05K22177 Complete Cylinder Assemblies, see release form. 6 each LW13790A Rocker Shafts; 12 each LW12892 Thrust Buttons; 6 each 69603 Induction Hoses; 6 each STD-1281 Drain Back Hoses; 1 each 71569-1 Gasket and Seal Kit; 1 each 51A22618 Oil Pump Body; 1 each 05K23463 Oil Pump Gear Kit; 12 each LW11485 Shroud Tubes; 4 each 68H22624 Magneto Drive Cushions; 6 each LW18737 Upper Deck Hoses; 1 each CH48110-1 Filter. Complete Fuel System, Servo, Fuel Pump, Nozzles, Flow Divider, and Both Slick Magnetos Overhauled and Certified by RMAA, see release forms. New Champion Harness and Sparkies Installed. Serviced Engine with 9 quarts of Aeroshell 80 Mineral and was tested in accordance with Lycoming Overhaul Manual. For details concerning this Overhaul, please refer to WO#4097 on file at this Repair / Overhaul Facility. Engine tested in accordance with Lycoming Overhaul Manual 60294-7 and is approved for return to service. Maintenance Release Tags supplied with this Logbook Entry. ----- END -----

J. F. Folchert
AEP 2689458

FOR

Aircraft Cylinders & Engines, Inc.
625 Buss Avenue
Greeley, CO 80631

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The Flight Shop, Inc. 435/723-3469 04/20/11 N46BL Hobbs 2094.3
Engine

1. Change oil Shell 100 ND; 2. Change oil filter; 3. Removed oil standby vacuum pump.

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

AP1856924IA



William R. Bridges

DATE

19__

EGA Aviation, Inc.
2634 Airport Dr.
N. Las Vegas, NV 89032 (702) 683-7507
Engine Logbook

N46BL
Tach: 2116.7

WO# 731 5 Nov. 2012
TTSM: 0038.2

IS AND ALTERATIONS
ND CERTIFICATE NUMBER OF
R OTHER SPECIFIC ENTRIES.)

and lubed. Removed and cleaned fuel injectors. Reinstalled and torqued
IAW MM. *insp.* Turbo compressor and turbine blades with no defects
Noted. C/Wed AD 2003-14-03 Fuel pump with letter "M" with action
needed. C/Wed AD 2005-12-06 Bendix mag insp. N/A not installed.
C/Wed AD2009-02-03 Servo gasket, installed with letter "G" stamp
no action needed. C/Wed AD2012-03-06 fuel servo insp. N/A by type
not installed. All AD,s checked and C/Wed thru 12-10 Post maint. run
up indicates all ops normal and no leaks noted at this time.

**I certify this ENGINE has been insp. IAW a 100 Hr. /ANNUAL insp. and
Has been determined to be in an airworthy condition.**

Lennie John Guerin 21483690 A/P IA

