TEXTRON Lycoming

ENGINE LOG

SSP-1872-1

SERVICEABLE PART

Manufacturer TEXTRON LYCOMING

Part Name AIRCRAFT ENGINE

Model IO-360-A1A

Part No. _____

Serial No. L-16509-51A

Remarks: _____

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.

Pertinent details of the repair are on file at this repair station under Order No. MPS097527

Date 7-27-96

Signed Charles B. Hitch

Signature of Authorized Person

FOR: TEXTRON Lycoming

Reciprocating Engine Division
Subsidiary of Textron Inc.
652 Oliver Street
Williamsport, PA 17701 U.S.A.
717/323-6181

FAA REPAIR STATION #EJ1R115K

39859

Form 302

TEXTRON Lycoming

Reciprocating Engine Division/
Subsidiary of Textron Inc.

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

ENGINE LOG
AND MAINTENANCE RECORD

RECORD OF TEXTRON LYCOMING (MAKE) IO-360-A1A (MODEL) L-16509-51A (SERIAL)

FROM AUG 27 19 96 TO 9-7-2004 19 ____

DETAILING TIME FROM -0- HRS SFOH (HOURS) TO 1373.0 TSMOH (HOURS)

1980 HRS TTENGINE

SSP 1872-1

October 1994

$

TEXTRON Lycoming

Reciprocating Engine Division/
Subsidiary of Textron Inc.

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

ENGINE SERIAL NUMBER L 1 6 5 0 9 5 1 A

IN SERVICE DATE 2 7 0 8 9 6 ENG. T.T. 1 9 8 0

DETACH AND RETAIN THIS PORTION FOR YOUR RECORD

ENGINE DESCRIPTION

Mfgr. TEXTRON LYCOMING	Place Williamsport, PA 17701	Date 8/27/96
Type IO-360-A1A (LYCOMING)	Model IO-360-A1A	Serial No. L-16509-51A
Rated H.P. 200	Max. H.P.	Weight (Dry)
Rated R.P.M. 2700	Max. R.P.M.	Oil Pressure
Bore 5.125	Stroke 4.375	Displacement 361.0 Cu. In.
Compression Ratio	Supercharger Ratio	
Reduction Gear Ratio		
Propeller HARTZELL	Hub Design HC-C2YK-1BF	Hub Serial No. EH26404
Blade Design	Blade Serial No.	Blade Serial No.
Max. Hub H.P.	Max. Blade H.P.	
Pitch	Diameter	Length
Name		
Address		

Date

License Number

TEXTRON Lycoming

TLRED-489
(Rev. 3-93)

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

This engine has been overhauled/rebuilt in accordance with the applicable Textron Lycoming manuals. 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-360-A1A
Serial #: L -16509-51A
Total Time: 1980.
Work Order #: MPS097527
Date Completed: 7-27-96

Authorized Signature
Textron Lycoming Reciprocating Engine Division
652 Oliver Street
Williamsport, PA 17701
Repair Station: EJ1R115K

Total to Date

ENGINE LOG

Serial No. _____

Date	Time Hrs	Time Min	REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
8.17.96	2910.8		TAH Removed Lycoming Engine SN# RL-1575-51A. Inspected		
	-0-		SFOH Tubular motor mount - no Defects NOTED. INSTALLED		
			Factory overhauled IO-360-A1A SN# L-16509-51A using BARRY		
			Mounts PN# 94011-02. INSTALLED Original Prop Governor and		
			propellor. INSTALL new oil, Fuel, Vent, VACCUUM and duct		
			Hoses. INSTALL New Throttle, mixture and Prop. Governor		
			Control Cables and Rigged. ADDED 8qts AS 100 mineral		
			Oil and CH 48110 oil Filter. INSTALL New Induction		
			Coupling PN# 6115-5. Run-up Engine - no leaks Detected.		
			Break in and Flight test were Conducted in		

	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 Hrs	Time Min	REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
8.17.96	2910.8 TACH		accordance with service Instruction 1427B. All		
	-0- SFOH		Maintanence has been performed in accordance		
			with Mooney Maintenance Manual. -End-		
			Kevin Studer	AP2319458	
11.7.96	2933.8 TACH		IT C/W AD 96.23.03 Textron Lycoming Fuel Pump, No Furthe		
	23.0 SFOH		action to be taken Due to MANUFACTURE DATE: 15473960 6.		
11.7.96	2933.8 TACH		C/W MSB-527A Piston Pin Replacement. NA Due to		
	23.0 SFOH		Engine SN#. -End- Kevin Studer	AP2319458	
			Page Total		
			Brought Forward		
			Total to Date		

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 Hrs	Time Min	REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
12/18/96	2961	26	CHANGED OIL & FILTER ADDED		
	50.5	SFOH	8 QTS AS15W-50 OIL & CH48110		
			FILTER [illegible] A+P 244961283		
	TACH				
5-3-97	3019.3		Drained Oil From sump, Refilled with 8qts AeroShell 15W50		
			Replaced Oil Filter, PN# CH48110 Performed Ground Run up		
			NO LEAKS NOTED		
			Ricky Gardner A.P. 241-27-4516		

Page Total	
Brought Forward	
Total to Date	

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 Hrs	Time Min	REPAIRS - ADJUST
			Page Total
			Brought Forward
			Total to Date

MOD WORKS INC.
8250 SKYLANE WAY
PUNTA GORDA, FL 33982
941-637-6770
941-637-9628 (FAX)

06/12/97 N1967F SN 67-0456 Tach 3038.82

C/W 100hr insp of engine per Mooney checklist. Replaced oil with 8qts 15W50. Filter check OK. Installed CH 48110 filter. Compression over 80: 1-72, 2-72, 3-72, 4-74. C/W AD 75-09-08, AD 93-02-05. No defects found. Installed boot on alt field terminal. Replaced clamps on dipstick tube and oil line. Replaced muffler with overhauled unit. Replaced #2 exh header. Repositioned #4 header clamp. Replaced Rt. mag blast tube. Replaced clamp on oil cooler line. Installed boots on mag p-lead terminals. Reversed injector line clamps on cyl 1,2, and 4. Replaced Brackett air filter element. Leak and ops check OK. I certify that this engine has been inspected IAW a 100hr insp and determined to be in airworthy condition.

AP 148704859

Richard D. Whitener.

License Number

ENGINE LOG

Serial No. _____

Date	Time Hrs	Time Min	REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
8-19-97	3107	.68	AD 95-15-11. NA per service bulliden 527C. serial numbers. Jeffrey W Barrett A+P 61447625		
8-19-97	307	.88	Installed overhauled prop, Hartzell HC-c2YK-1BF, S/N CA 26404 IAW MFG instructions, ops ck good. Jeffrey W Barrett A+P 61447625.		
12-9-97	3151	.03	Drained oil sump. took oil sample. examined filter element no metal found. Installed new filter CH 48110. Serviced eng w/7qt AS 15w50 and 1 can Aublend. Ground run up cks good. No leaks noted. Jeffrey W Barrett A+P 61447625.		
			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. _____

Dat

Date: 5/15/98 Tach: 3203.08 ENGINE DISASSEMBLED FOR PROP STRIKE INSPECTION, CRANKSHAFT AND STEEL PARTS MAGNAFLUXED, C/W AD-91-14-22, ENGINE REASSEMBLED "TIME REMAING" I/A/W LYC DIRECT DRIVE O/H MANUAL, INST NEW MAIN & ROD BEARINGS, NEW ROD NUTS AND BOLTS

Zephyr Aircraft Engines, Inc.
Municipal Airport
39320 Avenue B • Zephyrhills, FL 33540

W.O. No. 98096

F.A.A. APPROVED REPAIR STATION #VI4R597M

Authorized Signature

ENGINE LOG

Serial No. _____

Date	Time Hrs	Time Min	REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
			6-2-98 N1967F Mooney M20F sn 670456 Tach 3203.08		
			Installed this engine Lyc. IO-360-A1A sn L-16509-51A after prop strike inspection. Serviced with 8 qts. Aeroshell 15W50. Ground and flight tests passed.		
			Don Mod 595096866 AP for Mod Works, Inc. Punta Gorda, FL		

ENGINE LOG

Serial No. _____

Date	Time Hrs	Time Min	REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
7-3-98			TACH 3226.58 SMOH 315.78 Engine inspected in accordance with a 100 hr/annual inspection guide. Compression #1 74/80 #2 76/80 #3 74/80 #4 76/80. Drained oil, opened & inspected oil filter, installed new CH48110 oil filter, re-filled with 7 qts. Aeroshell 100 mineral oil. Cleaned, gapped & rotated spark plugs, checked mag timing. Re-installed alternator after overhaul. Re-installed muffler and tail pipe after repair. Engine washed, run, and checked for leaks. Ground run-up checked satisfactory. →		
			(Continued next page)		

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 Hrs	Time Min	REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
Continued From 7-3-98)					
			AVTEC SERVICES INC. 3566 Morganton-Lenoir Airport MORGANTON, NC 28655 Ph. 828-757-0099		
8-3-98			Tach 3255.75 Drained oil, opened & insp. oil filter, Installed new CH48110 oil filter, Re-filled with 7 qts. Aeroshell 15W50 oil. Engine washed, run, and checked for leaks.	[signature]	A&P 523647820
			Page Total		
			Brought Forward		
			Total to Date		

DATE 7-3-98 TIME IN SERVICE 515.78 I CERTIFY THAT THIS AIRCRAFT HAS BEEN INSPECTED IN ACCORDANCE WITH 100 hr INSPECTION AND DETERMINED TO BE IN AIRWORTHY CONDITION.
SIGNED [signature]
A&P 523647820

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 Hrs	Time Min	REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
12-8-98	TACH		3319.54 DRAINED OIL, OPENED & INSP OIL FILTER,		
	INSTALLED NEW FILTER CH84110, SERVICED 7 QTS AEROSHELL				
	15W50		OIL. OWNER ADDED ONE 12 OZ CAN OF AUBLEND TO OIL		
			SYSTEM. ENGINE RAN AND CHECKED FOR LEAKS.		
			[signature] A+P 504865009		
			AVTEC SERVICES INC.		
			35[illegible] Morganton-Lenoir Airport		
			MORGANTON, NC 28655		
			Ph. 828-757-0099		

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 Hrs	Time Min	REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
4-13-99	TACH	3365.5	Drained oil, oil Analysis Sample Taken. Removed 6 Qts. oil Filter. Installed new CH48108 oil Filter. Re-Filled with 7 Qts. Aeroshell 15w50 oil. (17 oz Lost-OF AVBLEND ADDED BY OWNER). Lubricated throttle, prop, and CHECKED for Leaks. Status: Normal thru 5236.7 hrs		

ENGINE LOG

Serial No. _____

Date	Time Hrs	Time Min	REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
7-1-99			TACH 3399.08 SMOH 488.78 Engine inspected in accordance with a 100 hr / annual inspection guide. Compression #1 74/80 #2 76/80 #3 77/80 #4 76/80. Drained oil, opened & insp. oil filter (oil analysis sample taken) Installed new CH48110 oil filter, re-filled with 7 qts. Aeroshell 15W50 oil. 1 pt. Avblend additive added by owner. Cleaned, gapped & rotated spark plugs, checked and timing. Gab. washed, run, and checked for leaks. Ground run-up checked normal		

DATE 7-1-99 TIME IN SERVICE 488.78 I CERTIFY THAT THIS AIRCRAFT HAS BEEN INSPECTED IN ACCORDANCE WITH 100 HR. INSPECTION AND DETERMINED TO BE IN AIRWORTHY CONDITION.

SIGNED [signature]

AEP 573 647 870

AVTEC SERVICES INC.
3566 Morganton-Lenoir Airport
MORGANTON, NC 28655
Ph. 828-757-0099

Page Total	
Brought Forward	
Total to Date	

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 Hrs	Time Min	REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
9-29-99			Tach 3441.77 Smoh 530.97 Drained oil, oil analysis sample taken. Opened & insp. oil filter, installed new CH48110 oil filter, re-filled with 7 qts Aeroshell 15W50. 1 pt. Avblend added by owner. Engine washed, run, and checked for leaks. [signature] ATP 523642820		
12-28-99			Tach 3482.28 Drained oil, oil analysis sample taken; open & insp. old oil filter, re-filled with 7 qts. Aeroshell 15W50. 1 pt. Avblend added by owner. Engine washed, run & checked for leaks. [signature] ATP 523642820		

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 Hrs	Time Min	REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
4-4-00			TACH 3521.97 SMOH 611.17 DRAINED OIL, OIL ANALYSIS		
			SAMPLE TAKEN. OPENED & INSP. OLD OIL FILTER. INSTALLED		
			NEW CHAS 110 OIL FILTER, RE-FILLED WITH 7 QTS AEROSHELL		
			15W 50 OIL. ENGINE WASHED, RUN & CHECKED FOR LEAKS.		
			[signature] AEP 523 647820		
4-4-00			ADDED 1 PT. AUBLEND ADDITIVE AT OWNER'S REQUEST		
			[signature] AEP 523 647820		

Page Total	
Brought Forward	
Total to Date	

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 Hrs	Time Min	REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
4-24-00	[illegible]		3573.01 Smoh 662.71 Obtained oil, oil Analysis Sample taken. Changed to 15w/40 oil Filter. Installed New Cheesecloth oil Filter. Refilled with 7qts Aeroshell 15w50 and Added 1 Pt. Autocraft Additive at owners request. Engine Washed, New and Checked for Leaks.	Steve Howard A&P 5236 of 7820	

ENGINE LOG

Serial No. _____

Date	Time Hrs	Time Min	REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
9-18-00			TACH 3592.98 SMOH 682.18 Engine inspected Ind. w.d. tooler/Annual inspection guide. Compression #1 78/80 #2 78/80 #3 74/80 #4 78/80. Drained oil, opened & insp. old oil filter No metal noted. Installed new LHLL8110 oil filter. Re-filled with 7 qts. Aeroshell 15W50 oil and 1 pt. cn. of AV blend additive at owners request. Cleaned, gapped & rotated spark plugs, checked mag timing. #3 cylinder removed for exhaust valve blow-by. Exhaust valve guide replaced and valves re-seated by Triad Aviation W.O. # 11461		

(Continued next page →)

Page Total	
Brought Forward	
Total to Date	

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 Hrs	Time Min	REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
Cont. from 9-18-00) #3 cylinder re-installed using all new gaskets & seals & and torqued to specs in the cylinder service manual. Engine washed down and checked for leaks. Ground run-up checked normal compression on #3 after run-up 74/80. — End —					

AVTEC SERVICES INC.
3566 Morganton-Lenoir Airport
MORGANTON, NC 28655
Ph. 828-757-0099

DATE 9-18-00 TIME IN SERVICE 682.18 I CERTIFY THAT THIS AIRCRAFT HAS BEEN INSPECTED IN ACCORDANCE WITH Looker INSPECTION AND DETERMINED TO BE IN AIRWORTHY CONDITION.
SIGNED [signature] Rep 5236-2820

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 Hrs	Time Min	REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
12-12-00			TACH 3641.25 DRAINED OIL, OPEN & INSP. OLD OIL FILTER, NO METAL NOTED. (OIL ANALYSIS SAMPLE TAKEN) INSTALLED NEW CH48110 OIL FILTER, RE-FILLED WITH 7 QTS AEROSHELL 15W50 OIL. 1 PT. AVBLEND ADDITIVE ADDED AT OWNERS REQUEST. ENGINE WASHED, RUN AND CHECKED FOR LEAKS. [signature] AEP 5236178 20		

AVTEC SERVICES INC.
3566 Morganton-L[illegible]ort
MORGANTON, [illegible]55
Ph. 828-757-0099

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 Hrs	Time Min	REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
3-22-01			TACH ~~2-22~~ 3689.77 DRAINED OIL, OIL ANALYSIS SAMPLE TAKEN. OPENED & INSP. OLD OIL FILTER, NO METAL NOTED. INSTALLED NEW CH 48110 OIL FILTER, RE-FILLED WITH 7 QTS. AEROSHELL 15W50 OIL. 1 PT. OF AVBLEND ADDITIVE ADDED AT OWNERS REQUEST. ENGINE WASHED, RUN AND CHECKED FOR LEAKS. [signature] A&P 523642820		
4-24-01			LYCOMING MSB# 549 DEFECTIVE CRANKSHAFTS IS N/A BY S/N. [signature] A&P 523642820		

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 Hrs	Time Min	REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
6-11-01			Tach 3734.73 Smoh 823.93 Drained oil, oil analysis sample taken, open & inspect old oil filter, no metal noted. Installed new CH48110 oil filter, re-filled with 7 qts. Aerosheel 15W50 oil. Cleaned bottom spark plugs. Engine washed, run, and checked for leaks.	[signature] AEP 523642820	

AVTEC SERVICES INC.
3566 Morganton-Lenoir Airport
MORGANTON, NC 28655
Ph. 828-757-0099

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 Hrs	Time Min	REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
8-29-01			Tach 3778.11 Sunset 867.31 Drained oil, oil analysis sample taken. Opened engine. Old oil filter — No metal noted. Installed New CH48110 oil filter, re-filled with 8 qts. Aerosheet 15W50 oil. Engine washed, run & checked for leaks. — [signature] AEP 5236478820		
			Page Total		
			Brought Forward		
			Total to Date		

AVTEC SERVICES INC.
3566 Morganton-Lenoir Airport
MORGANTON, NC 28655
Ph. 828-757-0099

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 Hrs	Time Min	REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
9-27-01			Tach 3812.07 Smoke 901.27 Engine inspected I.A.W. A 100 hr Annual insp. Guide. Compression 78/80 all cylinders. Cleaned Gapped & Rotated Spark plugs. Checked mag Timing. Drained oil, opened & insp. old oil filter — no metal. Noted. Installed new Chu8110 oil filter, re-filled with 8 qts. Aeroshell 15W50 oil. Engine washed, run and checked for leaks. Ground run-up checked normal.		

AVTEC SERVICES INC.
3566 Morganton-Lenoir Airport
MORGANTON, NC 28655
Ph: 828-757-0099

DATE 9-27-01 TIME IN SERVICE 901.27 I CERTIFY THAT THIS AIRCRAFT HAS BEEN INSPECTED IN ACCORDANCE WITH 100 HR. INSPECTION AND DETERMINED TO BE IN AIRWORTHY CONDITION.

Page Total	
Brought Forward	
Total to Date	

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

AOP 5236 7870

ENGINE LOG

Serial No. _____

Date	Time Hrs	Time Min	REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
1-8-02			Tach 3860.67 Smoke 949.82 Drained oil, oil analysis sample taken. Opened & insp. old oil filter - no metal noted. Installed new CH48110 oil filter, re-filled with 8 qts Aeroshell 15W50 oil. Engine washed, run & checked for leaks. — END — [signature] AEP 523647820		

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 Hrs	Time Min	REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
1-9-02			TACH 3893.91 PAROH 983.11 DRAINED OIL, OPP ANALYSIS		
			Sample taken. Opened to insp. OLD OIL FILTER —		
			No metal noted. Installed new [illegible] OIL		
			Filter, re-filled with 8 QTS. Aeroshell 15W 50 oil,		
			Engine washed, run to checked for leaks.		
			*Note: New 'O' time tach installed at this		
			time. [signature]		
			AEP 52364 7820		

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 Hrs	Time Min	REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
7-jul-01			TACH 46.1 SMOH 1029.1 DRAINED OIL, OIL ANALYSIS SAMPLE TAKEN. OIL AND FILT. OLD OIL FILTER — NO METAL NOTED. INSTALLED NEW CCF8110 OIL FILTER, RE-FILLED WITH 8 QTS. AEROSHELL 15W50 OIL AND CK. FOR LEAKS. ADDITIVE. ENGINE WARMED, RAN & CHECKED FOR LEAKS.	Eric Rohl A&P 523647820	

ENGINE LOG

Serial No. _____

Date	Time Hrs	Time Min	REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
9-30-02	Tach	80.3	Smooth 1145.25 Engine Insp. Intake. At Cooler/Annual Insp. Guide. Compression #1 74/80 #2 76/80 #3 74/80 #4 76/80. Oil Not changed at owners Request. Installed all new Rem 38E Spark Plugs, checked mag timing. Engine cleaned, run & checked for Leaks. Ground Run-up Normal.		

DATE 9-30-02 TIME IN SERVICE 1145-25 I CERTIFY THAT THIS AIRCRAFT HAS BEEN INSPECTED IN ACCORDANCE WITH Cooler INSPECTION AND DETERMINED TO BE IN AIRWORTHY CONDITION.

SIGNED [signature]

AVTEC SERVICES INC.
3566 Morganton-Lenoir Airport
MORGANTON, NC 28655
Ph. 828-757-0099

Page Total	
Brought Forward	
Total to Date	

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 Hrs	Time Min	REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
10-31-02			TACH 89.4 Sump 10 Qts. Drained oil & oil analysis sample taken. Replaced & Engr. old oil filter - Documented NOTE - Installed New CFC #10 oil Filter, Re-filled with 8 qts. Aeroshell 15W50 oil And 1 pt. Gr. Lubricant. Engine checked for leaks & test flown.	Jim McCloud A&P 523697820	

ENGINE LOG

Serial No. _____

Date	Time Hrs	Time Min	REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
1-14-07			Tach 131.3 Smoke 1114.3 Drained oil. Oil analysis sample taken		
			opened & insp. old oil filter - no metal noted. Installed		
			new CH48110 oil filter, re filled with 8 qts. Aeroshell		
			15W50 oil. Ent. washed, [illegible] to [illegible] for leaks.		
			[signature] AP/525647820		
1-30-03			Tach 179.3		
			oil change, cut open filter no		
			metal found, 8 qts AS-15W50		
			New filter - CH 48110, oil sample	(cont)	

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

Taken - wash down engine. ran up leak test
ok Repl cowl. [signature] tP 23931834

AVTEC SERVICES, INC.
3566 Morganton - Lenoir Airport
Morganton, NC 28655
828-757-0099

9-15-03 Tach 234.3 TS mOH 1217.3
changed oil, oil sample, 7 qts AS 15w50
and New ch 48110 Filter ran up leak ck
and replace cowl End Tach 0234.4
RTS [signature] tP 23931834 9-15-03

AVTEC SERVICES, INC.
3566 Morganton - Lenoir Airport
Morganton, NC 28655
828-757-0099

DATE _____

Service Bulletins, Letters, Instructions & A D Notes

10-10-03 Compression 1 = 76/80 2 = 77/80 3 = 78/80 4 = 78/80
Tach 0249.7 Inst new BA 0305 Air filter element, CW AD
2002-26-01 fuel inj lines, (AD 2003-14-03 NA by eq.inp inst)
clean engine, clean rotate spark plugs, clean fuel injectors
paint base places in front of cyls, Ran up RTS
Tach 0249.7 Lynn Mace AP 239318344 10-10-03

AVTEC SERVICES, INC.
3566 Morganton - Lenoir Airport
Morganton, NC 28655
828-757-0099

I certify that this Engine has been inspected in accordance with Annual inspection and was determined to be in airworthy condition.
Date 10-10-03 T. Time 4225.45
Signed Lynn Mace
Lynn Mace AP239318344 IA

Tach = 0249.7
TTAF = 4225.45 TSMOH = 1232.7

DATE

Service Bulletins, Letters, Instructions & A D Notes

Dec-12 -03 Tach = 0287.0
- change oil - 7 qts Aeroshell 15 W50
- New CH 48110 oil filter, cut and inspect old filter (No metal)
- add 1 pt Avblend
- Ran up ops ck OK RTS ZR Mae
AP 239318344

Tach 0287.0 TSMOH = 1270.0
Tach 0339.5 (60 oil change 7 qts Aeroshell 15 W50
27 Premore filter, cut / insp (no metal)
Replace w/ New CH 48110 filter ran up ops ck OK RTS (add 1 pt Avblend)
ZR Mae AP 239318344

AVTEC SERVICES, INC.
3566 Morganton - Lenoir Airport
Morganton, NC 28655
828-757-0099

DATE _____

Service Bulletins, Letters, Instructions & A D Notes

9.1.96	AD 96-23-03	Fuel Pump	N/A Due to Manufacture Date 154239606
11.7.96	MSB-527A	Piston Pin Replacement	N/A Due to Engine SN#

This log end
@ Tach 390.0 9-7-2004
@ 1373.0 TSMOH
2 R me AP 239318344

END

The Standard

ENGINE LOG

ASA-SE-1

Log Book #2

Engine Record General Information

Manufacturer Textron Lycoming **Model** IO 360 -A1A

Serial L-16509-51A **Type Certificate**

This engine is currently installed in aircraft N1907F

Mooney M-20

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

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

Spark Plug Gap

Manufacturer recommended overhaul at **hours**

Mooney M20 N 1967 F

Notes

This Log Began 9-7-2004 @ 0390.0 Tach
13730 TSMOH / 3353 TTIS
2L Mac AP 2393183 44

YEAR: 2004 DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Rep Facility. (See back pages for other specific entries.)
9-7-04	0390.0	/	3353.0	1- Drain oil, Sample taken
				2- Service w/ 7qts AS 15/W50
				3- Remove filter cut and insp O/K
				4- Install New CH 48110 Filter
				5- Replace cowl run up d/c RTS
				ZR M-e AP 2393183 44
0-15-04	406.1	/	3369.1	1389.1 SMOH
				1- Clean, Gap, rotate spark plugs
				2- Comp 1= 70/80 2= 73/80 3= 74/80 4= 75/80
				3- re-secured ex-heat shroud and
				posistioned ex tailpipe to proper angle

AVTEC SERVICES, INC.
3566 Morganton - Lenoir Airport
Morganton, NC 28655
828-757-0099

AVTEC SERVICES, INC.
3566 Morganton - Lenoir Airport
Morganton, NC 28655
828-757-0099

cont

YEAR: ____ DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	**Description of Inspections, Tests, Repairs and Alterations** Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
10-15-04	406-1	✓	3369.1	4-See A.D. compliance record For Status, next due. etc
				5. Ran up ok RTS
				ZN Mace AP 2393183344
				N 1967 F

AVTEC SERVICES, INC.
3566 Morganton - Lenoir Airport
Morganton, NC 28655
828-757-0099

AVTEC SERVICES, INC.
3566 Morganton - Lenoir Airport
Morganton, NC 28655
828-757-0099

I certify that this Engine has been inspected in accordance with Annual inspection and was determined to be in airworthy condition.
Date 10-15-2004 T. Time 406.1 Tach
Signed ZN Mace
Lynn Mace AP239318344 IA

YEAR: 2005 DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	**Description of Inspections, Tests, Repairs and Alterations** Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
1-10-05	438.4	✓	1421.4	SMOH
				1- Drain oil, service w/ 7 qts
				Aeroshell 15 w50 and 1 pt
				Aublend, sample taken
				2- Remove filter, cut, inspect (OK)
				3- install New CH 48110-1
				4- Replace cowl, ran up OK RTS
				ZR Mec AP 23931834

YEAR: 2005 DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	**Description of Inspections, Tests, Repairs and Alterations** Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
8-22	544.1	—	1527.1	- Drain oil serv w/ 7 qts
				aeroshell 15 w 50 and 1 pt
				Avblend, sample Taken
				- Adjust Alternator belt tension,
				- Remove filter, insp. inst new 48110-1
				- Replace cowl Ran up OK RTS
				ZR Me AP 239318344
9-27	559.3			Remove Vacuum Pump replace w/ New
				O/H unit P/N 215 CC S/N 36715
				ops ck OK RTS
				ZR Me AP 239318344

YEAR: 2005 DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	**Description of Inspections, Tests, Repairs and Alterations** Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
10/20	559.8	✓	3522.8	1542.8 SMOH
				See AD compliance for next due
				and starts
				Compression 1- 71/80 2 72/80 3- 73/80 4- 75/80
				JLM AP 23931834 4

I certify that this Engine has been inspected in accordance with Annual inspection and was determined to be in airworthy condition.
Date 10/20/05 T. Time 559.8 Tach
Signed JLM
Lynn Mace AP2393183344 IA

YEAR: 2006
DATE
1/5

YEAR: 2006 DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	**Description of Inspections, Tests, Repairs and Alterations** Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
1/5	587.3			- Remove prop, spinner and cowl,
				- Remove Alternator and starter
				- Install New MZ 6222 Starter and
				Alternator O/H ALX 8521R per TCDS
				Equipment section Sect 301-(C)
				- install new alt belt 37A19733-376
				- repair cowl support by welding
				- Replace spinner, cowls and panels
				- Ran up ops c/c OK RTS
				ZNM AP 239318344
				* Note ALX 8403 S/S to ALX 8521R

YEAR: 2006 DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	**Description of Inspections, Tests, Repairs and Alterations** Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
2/10	0611.2	—	—	1-drain oil sump w/ 7 qts Aeroshell 15/50 and 1 can of Aublend, sample taken, remove filter cut and inspect IAW Lyc SSP500, install new 48110 filter ran up leak c/c OIC RTS 2R Mc AP 2393183344

speedbird AVIATION

FULL-SERVICE FBO • AIRCRAFT LEASING • MANAGEMENT

Mooney M20F. N1967F s/n 670456
Tach: 0658.9

1) REMOVED TOP COWL, DRAINED OIL , TOOK A SAMPLE AND REMOVED FILTER. CUT AND INSPECTED FILTER ELEMENT, NO EXCESSIVE OR OTHERWISE UNACCEPTABLE CONTAMINATION WAS FOUND.
2) INSTALLED NEW 48110 FILTER, SAFTY AND SERVICED ENGINE WITH 07 Qt AEROSHELL 15/50 AND ADDED 1 PINT AVBLEND OIL ADDITIVE.
3) RE-INSTALLED TOP COWL, OPS TEST.
4) APPROVED FOR RETURN TO SERVICE.

06/05/2006

Lynn Mace A/P 3118643 IA

TRIAD AVIATION, Inc. certifies that this engine has been disassembled, inspected, and overhauled to manufacturer's overhaul manual new limits. Engine tested in accordance with recommended procedures and is approved for return to service. All applicable A.D. Notes and Service Bulletins are complied with at the time of overhaul. Pertinent details of this work are on file at this repair station under work order # 16170 DATE 11/17/06

MAKE Lycoming

MODEL IO-360-A1A

S/N L-16509-51A

TOTAL TIME

TSMOH 000.00

TBO 2000

TRIAD AVIATION

Triad Aviation, Inc.
FAA Repair Station #PP4R448M
Burlington Municipal Airport
3439 South Aviation Drive
Burlington, NC 27215
336-227-1467

Authorized Signature

YEAR: _____ DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	**Description of Inspections, Tests, Repairs and Alterations** Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)

Test ran Lycoming IO-360-A1A engine S/N L-16509-51A, 2 hours 15 minutes, RPM 2700, oil pressure 84 lbs, oil temperature 192 degrees, CHT 353 degrees, mag check at 2100 RPM, L 60 RPM, R 40 RPM. Compression test cylinder #1 78/80 #2 75/80 #3 76/80 #4 78/80. This engine and/or component is approved for return to service. All pertinent details on file this repair station: TRIAD AVIATION, INC. FAA REPAIR STATION
PP4R448M. WO# 16170.
Signed: Thomas M. Rushton Date: 11/17/06

QUANITY	PART NUMBER	DESCRIPTION	SALE AMOUNT
2	18A19441	bearing	
4	18D19394	bearing	
8	18N19391	bolt	
8	LW12596	bolt	
8	LW12186	nut	
8	72877	lifter	
1	61084	spring	
1	STD2246	bolt	
1	STD1221	ring	
1	STD1930	hose	
4	STD2180	hose	
1	LW16266-25-38	clamp	
1	53E22144	valve	
1	LW15473	fuel pump	
8	74389	bushing	
4	LW16266-10-75	clamp	
6	LW16266-10-13	clamp	
1	75441-1	gasket set	
2	STD2013	oring	
3	STD2249	nut	
1	STD2231	ring	
		TOTAL	

MISCELLANEOUS PARTS

This engine and/or component is approved for return to service. All pertinent details on file this repair station. TRIAD AVIATION, INC. FAA REPAIR STATION # PP4R448M.

Signed: _____ Date: 11/17/06

Triad Aviation, Inc.

FAA Repair Station #PP4R448M

3439 South Aviation Drive
Burlington, NC 27215
Telephone (336) 227-1467

NAME **SPEEDBIRD**
ADDRESS **3566 MORGANTON-LENIOR A/P AVE.**
MORGANTON, NC 28655

828-437-9834	INVOICE / WORK ORDER
FAX 828-758-[illegible] CELL	No. 16170
MAKE LYCOMING	DATE 11/16/2006
MODEL IO-360-A1A	WRITTEN BY O.R.
REGISTRATION NO.	P.O. NO.
SERIAL NO. L-16509-51A	TACHOMETER

INSTRUCTIONS/WORK DESCRIPTION

Overhaul Lycoming IO-360-A1A engine S/N L-16509-51A
Overhauled and test ran
Crankcase - Casting # 72082 S/N 734 overhauled by Divco wo# 91863
Cylinders - installed factory new P/N O5K21120
Camshaft - P/N LW11754 reconditioned and repaired by As wo# 156633
Magnetos - exchanged w/Slick Kit P/N K4536-38 Magneto Model No. 4347 S/N 06041099 & Model No. 4370 S/N 06041445
Servo Fuel Injector - P/N 2524054-11 S/N 44942 overhauled by AvStar wo# 26261
Flow Divider - P/N 2524232-2 S/N Y353 overhauled by AvStar wo# 26262
Connecting Rods -(4) P/N LW19332 magnafluxed, rebushed and inspected by AS wo# 156633
Tach Shaft - P/N 76121 S/N 9441 magnetic particle inspected, pregrind, chrome plate per QQ-C320B, finish grind to A/C Spec Drawing no. 1035 by AS wo# 156633
C/W 95-07-01 to prevent engine failure due to connecting rod bolt failure/ *C/W installed new factory bolts P/N LW12596.* ***C/W AD96-09-10C to prevent oil pump failure/*** *C/W per SB524 installed gears P/N SL18109 & SL18110.* ***C/W AD96-23-03 to prevent an inflight failure due to fuel starvation/*** *C/W installed factory new fuel pump P/N LW15473-0306.*
C/W AD2002-26-01 to prevent failure of the fuel injector fuel lines/ *C/W per SB 342E.*
C/W AD2004-10-14C to prevent loosening or failure of the crankshaft/ *C/W per SB 475C.*

CRANKCASE
OVERHAUL
EXCHANGE

I hereby authorize the following work to be done along with the necessary material, and hereby grant you and/or your employees permission to operate and fly the aircraft herein described for the purpose of testing and/or inspection. An express mechanic's lien is hereby acknowledged on above aircraft to secure the amount of repairs thereto.
You will not be held responsible for loss or damage to the aircraft or articles left in the aircraft in case of fire, theft, or any other cause beyond your control.
X _____

BASIC ENGINE	
TOTAL PARTS	
MISCELLANEOUS PARTS	
SHIPPING	
TAX	
TOTAL	

YEAR:	RECORDING	TODAY'S	TOTAL	Description of Inspections, Tests, Repairs and Alterations
DATE				an or Repair

Reg: N1967F **Mod:** M-20 **Prop:** HC-C2YK-1BF
S/N: 670456 **Tach:** 712.0 **S/N:** CH26404
A/C TT: ~~5093.2~~ **Eng:** IO 360 A1A
TSOH: 0.00 **S/N:** L-16509-51A

1) See AD Compliance for status, next due date and time.
2) Major overhaul by Triad Aviation w/o #16170 11/26/2006. Installed engine on N1967F M 20F s/n 670456.
3) Engine mount O/H by Kosola w/o #34001, Exhaust system O/H by AWI w/o #22661, propeller governor O/H by Triad Aviation w/o 16170.
4) Installed New 5 fire-sleeved hose assemblies, Lord mounts J-9613.12, baffle seal, Safe-Air oil drain valve, all engine mount hardware, all SCAT ducting and BA-6305 air filter element.
5) Serviced with 8 quarts Aeroshell 100 mineral oil and installed 48110 filter.
6) Rigged engine controls, test ran and re-installed cowls. No leaks noted at this time.
7) I certify this aircraft engine and propeller has been inspected IAW an annual/100 hr inspection and was determined to be in airworthy condition.
8) Approved for return to service.

Ricky Gardner 12/02/2006
Rick Gardener AP 3146802 IA

speedbird AVIATION

FULL-SERVICE FBO • AIRCRAFT LEASING • MANAGEMENT

Reg:	**N1967F**	**Mod:**	**M-20-F**
S/N:	**670456**	**Tach:**	**731.30**
A/CTT:	~~**4401.15**~~	**Engine:**	**IO-360-A1A**
Eng S/N:	**L-16509-51A**	**TSMOH:**	**19.30**

1) Removed cowl. Drained oil and serviced with 8qts Aeroshell 100Plus.
2) Removed filter. Cut and inspected. No excessive or otherwise unacceptable contamination was found. Installed new 48110 oil filter.
3) Installed new JE-5 Micro switch roller lever.
4) Re-rigged prop control.
5) Re-installed cowl ran up.
6) Approved for return to service.

Rick Gardener 01/16/2007

Rick Gardener AP 3146802 IA

EAR:	RECORDING	TODAY'S	TOTAL	Description of Inspections, Tests, Repairs and Alterations
ATE				

speedbird AVIATION

FULL-SERVICE FBO • AIRCRAFT LEASING • MANAGEMENT

Tel

Reg:	N1967F	Mod:	M-20-F
S/N:	670456	Tach:	768.1
A/CTT:	4743.9	Engine:	IO-360-A1A
Eng S/N:	L-16509-51A	TSMOH:	56.1

1) Removed cowl. Repaired prop control by trimming end to length and re-installing rod end.
2) Re-rigged prop control.
3) Re-installed cowl ran up.
4) Approved for return to service.

Rick Gardner 04/23/2007

Rick Gardener AP 3146802 IA

nician or Repair

speedbird AVIATION

-SERVICE FBO • AIRCRAFT LEASING • MANAGEMENT

Reg:	**N1967F**	**Mod:**	**M-20-F**
S/N:	**670456**	**Tach:**	**782.8**
A/CTT:	**4758.6**	**Engine:**	**IO-360-A1A**
Eng S/N:	**L-16509-51A**	**TSMOH:**	**70.8**

1) Removed cowl. Drained oil and serviced with 8qts Aeroshell 100Plus, and added one can of AvBlend.
2) Removed filter. Cut and inspected. No excessive or otherwise unacceptable contamination was found. Installed new 48110 oil filter.
3) Oil Sample was taken and sent to Aviation Oil Analysis of Phoenix, AZ.
4) Re-installed cowl and ran up.
5) Approved for return to service.

Rick Gardener 05/21/2007

Rick Gardener AP 3146802 IA

3566 Morganton-Lenoir Airport Ave.
Morganton, NC 28655
Telephone: 828/757-0099 • Fax: 758-8231
www.speedbirdaviationservices.com

YEAR: / DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	**Description of Inspections, Tests, Repairs and Alterations** Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)

35(

Telephone:

ww

speedbird AVIATION

FULL-SERVICE FBO • AIRCRAFT LEASING • MANAGEMENT

Reg: N1967F
Mod: Mooney M-20F
Tach: 828.9

Engine: Lycoming
Mod: IO-360-A1A
S/N: L-16509-51A

Drained oil, oped and Insp. old oil filter—No metal noted.
Installed new CH48110-1 oil filter, Re-filled with 7 Qts. Aeroshell W100 Plus oil.
Engine washed, run, and checked for leaks.

09/25/2007
Rick Gardner AP 3146802 IA

AR:	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	**Description of Inspections, Tests, Repairs and Alterations** Entries must be endorsed with Name, Rating and Certificate Number of Technician or F

T

speedbird AVIATION

FULL-SERVICE FBO • AIRCRAFT LEASING • MANAGEMENT

Tel

Reg: N1967F
S/N: 670456

Mod: M-20-F
Tach: 830.8
Engine: IO-360-A1A
Eng S/N: L-16509-51A

Removed defective Magna flite MZ-6222 Starter, S/N F033751, and Installed new Sky-Tec HighTorque starter P/N 149-NL, S/N FN-340738. Serviced, charged, and installed new Gill G-35 Aircraft Battery.

Rick Gardener 10/18/2007
Rick Gardener AP 3146802 IA

YEAR:

DATE

dbird ATION
RAFT LEASING • MANAGEMENT

3566 Morganton-Le
Morg epair
Telephone: 828/757-0099
www.speedbirdaviat

Reg: N1967F
Tach: 841.5
SMOH: 129.5

Eng: Lycoming
Mod: I0-360-A1A
S/N: L-16509-51A

Engine Inspected in accordance with an FAR Part 43, Rev.'D'- 100 Hr./ Annual Inspection Guide.
Oil not changed at this time at owners request.
Compressions over 80. #1=76, #2=76, #3=77, #4=78.
Cleaned, gapped, and rotated spark plugs, checked mag timing.
Engine, washed, run, and checked for leaks. Ground run-up checked normal.

I certify that this Engine has been Inspected in accordance with a 100 Hr/ Annual Inspection and found to be in Airworthy condition.

12/20/2007

Rick Gardner
A&P 3146802 IA

YEAR: _____	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technici Facility. (See back pages for other specific entries.)

speedbird AVIATION

FULL-SERVICE FBO • AIRCRAFT LEASING • MANAGEMENT

Reg: N1967F
Mod: Mooney M-20F
Tach: 877.1

Engine: Lycoming
Mod: IO-360-A1A
S/N: L-16509-51A

Drained oil, opened and Insp. old oil filter—No metal noted.
Installed new CH48110-1 oil filter, Re-filled with 7 Qts. Aeroshell W100 Plus oil, and one cn. Avblend additive.
C/W Emergency AD 2008-06-51(Precision fuel servos)=Next due 927.1.
Engine washed, run, and checked for leaks.

Rick Gardner 03/28/2007
Rick Gardner
AP 3146802 IA

YEAR: | RECORDING | TODAY'S | TOTAL

DA

chnician or Repa

Te

speedbird AVIATION

FULL-SERVICE FBO • AIRCRAFT LEASING • MANAGEMENT

Reg: N1967F
Mod: Mooney M-20F
Tach: 944.6
SMOH: 232.6

Engine: Lycoming
Mod: IO-360-A1A
S/N: L-16509-51A

Drained oil, opened and Insp. old oil filter—No metal noted.
Installed new CH48110-1 oil filter, Re-filled with 7 Qts. Aeroshell W100 Plus oil, and one cn. Avblend additive. Oil sample taken.
C/W Emergency AD 2008-06-51(Precision fuel servos)=Next due 994.6.
Replaced oil door hinge assy. replaced fasteners with Camlock assys.
Engine washed, run, and checked for leaks.

Rick Gardner 07/01/2008
Rick Gardner
AP 3146802 IA

EAR: ___ TE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	**Description of Inspections, Tests, Repairs and Alterations** Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repa Facility. (See back pages for other specific entries.)

Reg: N1967F
Mod: Mooney M-20F
Tach: 998.6
SMOH: 286.6

Engine: Lycoming
Mod: IO-360-A1A
S/N: L-16509-51A

1-Drained oil opened and Inspected old oil filter—No metal noted.
2-Installed new CH48110-1 oil filter, Re-filled with 7 Qts. Aeroshell W100 Plus oil and Avblend additive.
3-C/W AD 2008-06-51par (i), (Precision fuel servos), Next due 1048.6.
4-Re-secured and safetied oil temp probe cannon plug connector.
5-Engine washed, run, and checked for leaks.

12/01/2008
Lynn R Mace
AP 3118643 IA

YEAR:

DATE

Reg: N1967F **Mod: M20F**
S/N: 670456 **Tach: 999.7**
A/C TT: 4975.5 **TSMOH: 287.7**

1-Aircraft engine inspected in accordance with FAR Part 43 appendix (D).
2-See ATP Airworthiness Directive Compliance Record dated 01/09/2009 for current status, next due date and time.
3-Replaced all 4 valve cover gaskets with new p/n SL67193-S.
4-Install O/H alternator p/n ALX-8521R and new belt 37A-19773-376.
5-Installed a new BA-6305 air filter element.
6-Cleaned, gapped and rotated spark plugs.
7-Compression test: 1=76/80, 2=78/80, 3=77/80, 4=78/80.

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

01/09/2009
Lynn R Mace
AP 3118643 IA

YEAR: 2009 DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	**Description of Inspections, Tests, Repairs and Alterations** Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
5/28	1031.5	/	/	C/W AD 2009-02-03 par (g) (h) and (j) next due @ oil change or 1081.5 tach
				*Mandatory Terminating Action due no later than 12/31/09
				ZK Mac AP 3118643

YEAR: 2009 DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	**Description of Inspections, Tests, Repairs and Alterations** Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
7/8/09	1049.6	—	—	CW AD 2009-02-03 by performing par (K) "mandatory Terminating action"
				replaced gasket w/ new p/N 2577258,
				Inspected plug and installed IAW
				SB PRS-107 revision 4. Repetitive
				actions per par (j) of the AD are
				no longer applicable.
				2 hr Max AP3118643
7/27	1058.8	—	—	Changed oil 8 qts Aeroshell 100W plus
				1 pt Aublend, new 48111 filter
				Cut & Insp old filter, no metal.
				2 hr Max AP 3118643

RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	**Description of Inspections, Tests, Repairs and Alterations** Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)

1-Aircraft Engine inspected in accordance with FAR Part 43 appendix (D).
2-Compression test results: 1-77, 2-78, 3-77, 4-78.
3-See ATP Airworthiness Directive Compliance Record dated 02/11/2010 for current status, next due date and time.

"I certify that this Aircraft Engine and Propeller have been inspected in accordance with an Annual/100hr inspection and was determined to be in airworthy condition."

LR Mace 02/11/2010 HM/Tach: 1093.7 TT: 381.7

Lynn R Mace
AP 3118643 IA

YEAR: / DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	**Description of Inspections, Tests, Repairs and Alterations** Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
4/19	1110.0			1- Drained oil, Sero w/ 8 qt AS 100W plus, I can Avblend.
				2- Installed new oil filter.
				2 hr Mac AP 3118643

1-Aircraft Engine and Propeller inspected in accordance with FAR Part 43 appendix (D).

2-Compression test: #1-77/80, 2-78/80, 3-78/80, 4-78/80, 5-__/80, 6-__/80

3- See FAA Airworthiness Directive Compliance Record dated 4/1/11 or later for current status, next due date and time.

"I certify that this Aircraft Engine and Propeller has been inspected in accordance with an Annual/100hr inspection and was determined to be in airworthy condition"

ZhMac 4/1/11 Tach: 1200 HM/TT: 488

Lynn R Mace
AP 3118643 IA

N1907F

YEAR: ____ DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	**Description of Inspections, Tests, Repairs and Alterations** Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
6-29-11	1216.1			Drained oil serv w/ 7 qt AS
				100 W plus & New filter
				ZLMae AP 3118643

YEAR:

DATE

REC
TAC
TIMI

ns
f Technician or Repair

FOOTHILLS REGIONAL AVIATION

1-Aircraft Engine and Propeller inspected in accordance with FAR Part 43 appendix (D).

2-Compression test: #1-76/80, 2-76/80, 3-76/80, 4-78/80, 5-__/80, 6-__/80 1- New Spark plug REM38E

3- See FAA Airworthiness Directive Compliance Record dated 5/4/12 or later for current status, next due date and time.

"I certify that this Aircraft Engine and Propeller has been inspected in accordance with an Annual/100hr inspection and was determined to be in airworthy condition"

ZR Mace 5/4/12 Tach: 1253.6 HM/TT: 541.6

Lynn R Mace
AP 3118643 IA

N1967E

YEAR: 2013 DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	**Description of Inspections, Tests, Repairs and Alterations** Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
4-13	1286.0	✓	✓	
-13-13	12946			Changed oil & filter, sample Taken & new BA-0308 Zhme AP3118643

FAA - PMA

This tag certifies that Sky-Tec Model No. **149-NL**
Serial No. **FN-0413122** was manufacturred new on 30 Jan 2013
by Sky-Tec under the authority of FAA PMA No. PQ0852SW Supplement No. **7** per CFR14 Part 21 in accordance with Sky-Tec's FAA-Approved Fabrication Inspection System (CFR14 Part 21 §21.303) and conforms to the relevant FAA-approved drawings. This part has been determined to be airworthy.
For installation eligiblility see *www.skytecair.com/eligibility.htm*
Starter Installed on N 1967F (Aircraft) by Zhmc (Mechanic)
AP3118643

Form CC1108-1

YEAR: ____ DATE	RECORDING TACH TIME	TODAY'S FLIGHT

AGL Aviation Services

N 1967F Tach: 12946 HM (T): 582.6

6/13/13

1) Aircraft engine and propeller inspected in accordance with FAR part 43 appendix (D)

2) Compression test: (1) 76 /80, (2) 76 /80, (3) 77 /80, (4) 78 /80, (5) ~~___ /80, (6) ___ /80~~

3) See FAA Airworthiness Directive Compliance Record dated 6/13/13 or later for current status, next due date and time.

"I certify that this aircraft engine and propeller has been inspected in accordance with an Annual/100hr inspection and was determined to be in airworthy condition."

LRMace 6/13/13 Lynn R Mace AP 3118643 IA

tir
___
___
___
___
___
___
___
___
___
___
___
___
___
___
___

YEAR: ____ DATE	RECORDING TACH TIME	TODAY'S FLIGHT	Description of Inspections, Tests, Repairs and Alterations
	1327.7	/	

AGL Aviation Services

N 1967F Tach: 1327.7 HM/TT: 615.7

7/1/14

1) Drained oil. Removed, cut, and inspected filter(s).

2) Service with 7 qts of Aeroshell 100W.

3) Install new 48110-2 oil filter.

Additional maintenance: clean, gap, inspect & Test spark plugs, Install new BA 6305 Air filter, ck Timing wash down & ran up ok, Oil sample taken.

ZLMc 7/1/14 Lynn R Mace AP 3118643 IA

YEAR: / DATE	RECORDING TACH TIME	TO FI

AGL Aviation Services

N: 1967F Tach: 1327.7 HM (TT:) 615.7

7/1/14

1) Aircraft engine and propeller inspected in accordance with FAR part 43 appendix (D)

2) Compression test: (1) 77/80 (2) 76/80 (3) 77/80 (4) 78/80 (5) ___/80 (6) ___/80

3) See FAA Airworthiness Directive Compliance Record dated 7/1/14 or later for current status, next due date and time.

"I certify that this aircraft engine and propeller has been inspected in accordance with an Annual/100hr inspection and was determined to be in airworthy condition."

7/1/14

Lynn R Mace AP 3118643 IA

or Repair

YEAR: 2015 DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	**Description of Inspections, Tests, Repairs and Alterations** Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repa Facility. (See back pages for other specific entries.)
5-14	1344			Re-insp prop after O/H Torque & Safety IAW AP3118643
8-22-15				Tach 1344.7 changed oil & filter, Service w/ 7 Qts Aeroshell 100W plus and com additive Avblend. New Air filter BA 6305 IAW AP 3118643

YEAR: 2015 DATE	RECORDING TACH TIME	TOD/ FLIG

YEAR: 2016 DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	**Description of Inspections, Tests, Repairs and Alterations** Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
8-29	1349.9			Replaced Air induction coupling 600115-005
				Removed muffler and sent to Dawley
				for IRAN, re-installed after work
				changed oil & filter, 7 Qts AS 100W plus
				and Avblend. New 48110-2 filter,
				clean, gap & test all spark plugs.
				cut & inspect oil filter, remove suction
				screen to inspect, NO metal.
				Zhyne AP 3118643

YEAR: / DATE	RECORDING TACH TIME	TOD... FLI...

YEAR: 2017 DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	**Description of Inspections, Tests, Repairs and Alterations** Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
9-19	1351.8			Drain oil, Remove filter and suction screen for inspection (NO metal) Serviced w/ Aeroshell 100W plus 7 qts and new 48110-2 filter. Install new Air filter. Clean, Test all spark plugs. Ran up & ops Test ok
				2 hr Mx AP 3118643

YE
DA

YEAR:	RECORI TACH TIME
DATE	

AGL Aviation Services

N: 1617F Tach: 1351.8 HM (TT) 639.8

9/19/17

1) Aircraft engine and propeller inspected in accordance with FAR part 43 appendix (D)
2) Compression test: (1) 77/80 (2) 77/80 (3) 77/80 (4) 78/80 (5) —/80 (6) —/80
3) See FAA Airworthiness Directive Compliance Record dated 9/19/17 or later for current status, next due date and time.

"I certify that this aircraft engine and propeller has been inspected in accordance with an ~~Annual~~/100hr inspection and was determined to be in airworthy condition."

Z a m 9/19/17

Lynn R Mace AP 3118643 IA

CUBCRAFTERS Service Center

YEAR: 2018 DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	**Description of Inspections, Tests, Repairs and Alterations** Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
10-2-18	1387.3	✓	677.2	Install new BA1305 Air filter
				C/W/ SB3-08B Mag Service & inspection
				Due again @ 1177.2 TIS or 1887.3 Tach
				Drain oil, remove oil suction screen
				and inspect, cut filter & inspect. No metal
				Serv w/ 7 qts Aeroshell 100 w plus
				and New AA 48110-2 filter, clean
				fuel screens and injectors.
				ZNR AP 3118643

YEAR:	RECORDI
DATE	TACH TIME

AGL Aviation Services

N: 1967F Tach: 1387.3 HM (TT) 672.2

10/2/18

1) Aircraft engine and propeller inspected in accordance with FAR part 43 appendix (D)
2) Compression test: (1) 78/80 (2) 78/80 (3) 78/80 (4) 77/80 (5) ___/80 (6) ___/80
3) See FAA Airworthiness Directive Compliance Record dated 10/2/18 or later for current status, next due date and time.

"I certify that this aircraft engine and propeller has been inspected in accordance with an ~~Annual~~/100hr inspection and was determined to be in airworthy condition."

10/2/18

Lynn R Mace AP 3118643 IA

CUBCRAFTERS Service Center

hnician or Repair

R:	RECORDING TACH TIME	TODAY'S FLIGHT

YEAR: 2019 DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	**Description of Inspections, Tests, Repairs and Alterations** Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
10-22	1420.6		710.5	TSMOH.
				Drain oil, remove filter & suction screen for inspection, cut filter. (No metal)
				Install new 40110-2 filter and serv w/ 7qts
				Aeroshell 100w plus, Install new BA 6305 Air filter. Clean, gap and test all spark plugs. Adjust prop governer for 2700 rpm on DPJ
				Zane AP 3118643

YEAR:	RECORDING TACH TIME	TODAY' FLIGHT
DATE		

AGL Aviation Services

N: 1967F Tach: 1420.6 HM (TT) 710.5
TSMOH

10/22/19

1) Aircraft engine and propeller inspected in accordance with FAR part 43 appendix (D)
2) Compression test: (1) 78/80 (2) 75/80 (3) 77/80 (4) 76/80 (5) ___/80 (6) ___/80
3) See FAA Airworthiness Directive Compliance Record dated 10/22/19 or later for current status, next due date and time.

"I certify that this aircraft engine and propeller has been inspected in accordance with an Annual/100hr inspection and was determined to be in airworthy condition."

[signature] 10/22/19

Lynn R Mace AP 3118643 IA

CUBCRAFTERS Authorized Service Center

MOONEY SERVICE CENTER

epair	YEAR:	DATE

ING	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	**Description of Inspections, Tests, Repairs and Alterations** Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
			Installed power flow exhaust IAW
			STC # SA02871AT
			Kit # PFS-16201 (-Gen 2)
			PFS-16150-00 Rev G. update Wt/Bal
			2 hr AP 3118643

R:	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	**Description of Inspections, Tests, Repairs and Alterations** Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
6	1467.2		757.1	TSMOH
				Drain oil, remove filter & suction screen for inspection. (No metal) Install screen w/ New AN Gasket, Install New AA 48110-2 filter & service w/ 7 qts Aeroshell 100 W plus. Install New BA 6305 Air filter, clean fuel Injectors
				John A+ 3118643

YEAR: / DATE	RECORD TACH TIME

N: 1967F Tach: 1467.2 HM/TT: 757.1 TSMoH

10/16/2020

1) Aircraft engine and propeller inspected in accordance with FAR part 43 appendix (D)
2) Compression test: (1) 78/80 (2) 76/80 (3) 77/80 (4) 76/80 (5) __/80 (6) __/80
3) See FAA Airworthiness Directive Compliance Record dated 10/16/20 or later for current status, next due date and time.

"I certify that this aircraft engine and propeller has been inspected in accordance with an Annual/100hr inspection and was determined to be in airworthy condition."

10/16/2020

Lynn R Mace AP 3118643 IA

CUBCRAFTERS Service Center

YEAR: 2021 DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	**Description of Inspections, Tests, Repairs and Alterations** Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
7/29	1489.1			Change oil and filter, Remove Cowl, drain oil. Remove filter, Install New AA 48110-2 filter, safty. Service w/ 7 qts Aeroshell 100W, re-install cowl. ZLM AP 3118643
11/9/21	1501.7		791.6	Change oil and filter, Inspect filter and screen. (No metal) clean, test Spark plugs. Service w/ 7 qts Aeroshell 100W plus and new AA 48110-2 oil filter, new BA 0310 Air filter. ZLM AP 3118643

YEAR: / DATE	RECORD TACH TIME

AGL Aviation Services

N: 1967F Tach: 1501.7 HM/TT: 791.6 TSNOH

11/9/2021

1) Aircraft engine and propeller inspected in accordance with FAR part 43 appendix (D)
2) Compression test: (1) 78/80 (2) 77/80 (3) 79/80 (4) 78/80 (5) ___/80 (6) ___/80
3) See FAA Airworthiness Directive Compliance Record dated 11/9/21 or later for current status, next due date and time.

"I certify that this aircraft engine and propeller has been inspected in accordance with an Annual/100hr inspection and was determined to be in airworthy condition."

11/9/2021

Lynn R Mace AP 3118643 IA

CUBCRAFTERS Service Center

chnician or Repair

YEAR

DATE

AGL Aviation Services, LLP
3550 Foothills Airport Rd
Morganton NC 28655-7717
828-391-8645

Make: Mooney
Model: M20F
Tail: N1967F
S/N: 670456

Hours: 1590.4

Performed Annual Inspection as follows per FAR Appx D & Mooney M20 100 Hour Checklist . Compression #1 75/80 #2 78/80 #3 78/80 #4 78/80. Changed oil and filter. Serviced with 7 QTS Aeroshell W100 Plus , 1 Tempest AA48110-2 Filter . Opened filter and found no metal at this time. Cleaned top sparkplugs and installed new gaskets. Replaced Bracket element p/n BA6305. Complied with AD15-19-07: Fuel Injector; C/W Visual inspection of the fuel injector fuel lines and clamps between the fuel manifold and the fuel injector nozzles. IAW Lycoming Engines Mandatory Service Bulletin (MSB) No. 342G. Found no defects at this time , next due 100 hours. Performed engine run up , leak check, systems check and taxi check of all systems on the ground. No leaks or other defects noted at this time . The below statement in no way, implies or guarantees that this aircraft, or engine, or accessories will continue to function for any period of time after this inspection, and only states that this aircraft was inspected and certified to comply with all applicable Federal Aviation Administration Standards, Airworthy Directives and FAR 43 Appendix D. I certify that this engine has been inspected in accordance with an annual inspection and was determined to be in airworthy condition. -- - END ---

Signed:
Name: Wesley Zimmer

Cert: AP3814494IA
Date: 11/08/2022

The Standard

ENGINE LOG

ASA-SE-2

Notes

~~Sept~~ 28, 2023 Tach: 1681.4

Drained oil, Remove filter cut & Inspected w/ ~~o~~ Abnormalities noted, Installed new AA48110 filter, replaced 8 qts of Aeroshell 100plus.

A

Sept 29, 2023 Tach: 1724.0

oil drained, filter removed, Inspected c̄ ~~o~~ issues. Installed 8Qts of Aeroshell 100+, & filter AA48110.

A

YEAR 20___ DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	**Description of Inspections, Tests, Repairs and Alterations** Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (*See* back pages for other specific entries.)
02JAN2024				
Lycoming TACH: 1740.6 SMOH: 1028.6 IO-360-A1A SN: L-16509-51A				Accomplished 100 hour inspection within the scope and detail of FAR 43(d). Drained oil, removed filter and cut open to inspect media, no abnormalities noted. Installed new AA48110-2 filter, serviced with 8qts Aeroshell W100plus. Accomplished compression checks #1 77/80, #2 78/80, #3 78/80, #4 77/80. Removed, cleaned, tested & gapped all spark plugs. Installed with new M674 gaskets. Checked magneto to engine timing. Inspected all lines and hoses. Replaced induction filter new BA6305. Lubricated all engine controls and checked for proper operation. Inspected exhaust system. Fabricated and installed exhaust hanger. Removed propeller, removed and replaced crankshaft seal with new Lycoming pn: LW-13792. Removed and replaced alternator belt with new pn: 37A19773-376. Ground ran engine, run up and leak checks satisfactory. Checked all ADs through ATP as of 31DEC2023. Complied with AD2015-19-07 IAW MSB No. 342G, no defects noted. Due again in 100 hours or fuel system maintenance. I certify this engine has been inspected IAW a 100 hour inspection and was found to be in airworthy condition at this time.
N1967F				Glenn MacDermod 3053427AP