

POPLAR GROVE **AIRMOTIVE**

11619 Route 76

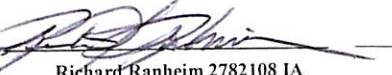
Poplar Grove, IL 61065

800-397-8181

The Standard
 -ENGINE LOG

ASA-SE-2

YEAR DATE	RECORDING TACH TIME	AMR SERVICES INC. N9166Z Engine TMOH: 1447.4 March 17, 2017 Hobbs Time: 3089.0	and Alterations icate Number of specific entries.)
		Engine: TCM IO-550-G S/N: 679111 Performed the following maintenance: 1. Complied with an Annual Inspection referencing the Mooney M20R Maintenance Manual. 2. Performed a Differential Compression Check with the following results: Cylinders #1 68/80, #2 70/80, #3 70/80, #4 68/80, #5 70/80, #6 72/80 3. Drained oil and replenished with 8 qts. of Philips X/C 20W/50. Installed new CH48109-1 filter. 4. Ground run the engine and found it functioning normally. Leak checks found to be satisfactory. This engine has been inspected in accordance with FAR Part 43.13 Appendix D and is was determined to be in airworthy condition. Authorized Signature:  Richard J. Ranheim 2782108 IA End	
		AMR SERVICES INC. N9166Z Engine TMOH: 1660.4 May 19, 2018 Tach. Time: 3151.8	
		Engine: TCM IO-550-G S/N: 679111 Performed the following maintenance: 1. Complied with an Annual Inspection referencing the Mooney M20R Maintenance Manual. 2. Performed a Differential Compression Check with the following results: Cylinders #1 73/80, #2 72/80, #3 72/80, #4 75/80, #5 72/80, #6 73/80 3. Drained oil and replenished with 8 qts. of Philips X/C 20W/50. Cut oil filter, found normal. Installed new CH48109-1 filter. 4. Cleaned and tested sparkplugs. 5. Ground run the engine and found it functioning normally. Leak checks found to be satisfactory. This engine has been inspected in accordance with FAR Part 43.13 Appendix D and is approved for return to service. Authorized Signature:  Richard J. Ranheim 2782108 IA End	

YEAR DATE	RECORDING TACH TIME	AMR SERVICES INC. N9166Z Engine SMOH: 1775.8 July 14, 2019 Tach. Time: 3267.2	and Alterations icate Number of specific entries.)
		Engine: TCM IO-550-G S/N: 679111 Performed the following maintenance: 1. Complied with an Annual Inspection referencing the Mooney M20R Maintenance Manual 2. Performed a Differential Compression Check with the following results: Cylinders #1 70/80, #2 72/80, #3 70/80, #4 68/80, #5 69/80, #6 70/80 3. Verified the magneto-to-engine timing, found satisfactory. 4. Cleaned fuel injectors 5. Ground run the engine and found it functioning normally. Leak checks found to be satisfactory. This engine has been inspected in accordance with FAR Part 43.13 Appendix D and was determined to be in airworthy condition. Authorized Signature:  Richard J. Ranheim 2782108 IA End	
		AMR SERVICES INC. N9166Z Engine SMOH: 1852.7 Sept. 1, 2020 Tach. Time: 3344.1	
		Engine: TCM IO-550-G S/N: 679111 Performed the following maintenance: 1. Complied with an Annual Inspection referencing the Mooney M20R Maintenance Manual. 2. Performed a Differential Compression Check with the following results: Cylinders #1 68/80, #2 69/80, #3 70/80, #4 68/80, #5 68/80, #6 69/80 3. Changed oil with 11 qts Phillips x/c 20-50. Change oil filter CH48109-1, no metal found. 4. Verified the magneto-to-engine timing, found satisfactory. 5. Cleaned fuel injectors. 6. Ground run the engine and found it functioning normally. Leak checks found to be satisfactory. This engine has been inspected in accordance with FAR Part 43.13 Appendix D and was determined to be in airworthy condition. Authorized Signature:  Richard J. Ranheim 2782108 IA End	

YEAR

DATE

AMR SERVICES INC.

N9166Z

Engine: TCM IO-550-G

S/N: 679111

Engine TMOH: 899.9

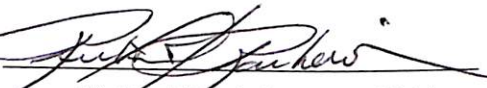
August 4, 2010

Tach. Time: 2541.5

Performed the following maintenance:

1. Complied with an **Annual Inspection** referencing the Mooney M20R Maintenance Manual.
2. Performed a Differential Compression Check with the following results: Cylinders #1 77/80, #2 75/80, #3 76/80, #4 74/80, #5 76/80, #6 74/80
3. Replaced engine spark plugs with new.
4. Verified the magneto-to-engine timing, found satisfactory.
5. Ground run the engine and found it functioning normally. Leak checks found to be satisfactory.

This engine has been inspected in accordance with FAR Part 43.13 Appendix D and is approved for return to service.

Authorized Signature: 

Richard Ranheim 2782108 IA

AMR SERVICES INC.

N9166Z

Engine: TCM IO-550-G

S/N: 679111

Engine TMOH: 1014.9

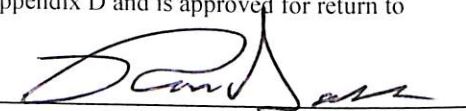
Sept. 04, 2011

Tach. Time: 2656.5

Performed the following maintenance:

1. Complied with an **Annual Inspection** referencing the Mooney M20R Maintenance Manual.
2. Performed a Differential Compression Check with the following results: Cylinders #1 74/80, #2 65/80, #3 76/80, #4 74/80, #5 76/80, #6 71/80
3. Removed starter, replaced starter "O" ring. Installed starter.
4. Removed rust from #2 cylinder valve cover. Primed and painted.
5. Verified the magneto-to-engine timing, found satisfactory.
6. Ground run the engine and found it functioning normally. Leak checks found to be satisfactory.

This engine has been inspected in accordance with FAR Part 43.13 Appendix D and is approved for return to service.

Authorized Signature: 

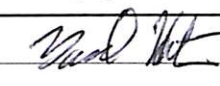
Ron Dass AP 470847011 IA

End

YEAR
11/12
DATERECORDING
TACH
TIMETODAY'S
FLIGHTTOTAL
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.)

10-24

Owner Oil Change 

6-2

Owner Oil Change **AMR SERVICES INC.**

N9166Z

Engine: TCM IO-550-G

S/N: 679111

Engine TMOH: 1142.1

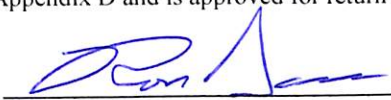
Sept. 28, 2012

Tach. Time: 2783.7

Performed the following maintenance:

1. Complied with an **Annual Inspection** referencing the Mooney M20R Maintenance Manual.
2. Performed a Differential Compression Check with the following results: Cylinders #1 65/80, #2 78/80, #3 65/80, #4 60/80, #5 62/80, #6 68/80
3. Removed #2 cylinder and sent to Bulduc Aviation for repair. Installed cylinder after repair. Performed ground run, operationally checked ok, and leak checked OK.
4. Drained oil and replenished with 8 qts. of Philips X/C 20W/50. Cut oil filter, found normal. Installed new CH48109-1 filter.
5. Ground run the engine and found it functioning normally. Leak checks found to be satisfactory.

This engine has been inspected in accordance with FAR Part 43.13 Appendix D and is approved for return to service.

Authorized Signature: 

Ron Dass AP 470847011 IA

End

1845.8 16885

YI 1 APRIL 2006 N9166Z M20R 1975.9 S/N 29-0035 1975.9 A/F TT
 IO-550-G(5) S/N 679111 ENG. TT 1845.8hr. ENG. TSMOH 204.2hr.
 D. McCAULEY 3A32C418-C/G-82NTLC-9 S/N FP3067B PROP. TT 241.7hr. PROP. TSNew 118.6hr.
 1058.2 1058.2

LUBRICATED AND PERFORMED CONTROL TRAVEL CHECKS. INSPECTED AND PERFORMED ELECTRICAL SYSTEM CHECK. CHANGED OIL and FILTER CH48109-1. SERVICED WITH 8 QUARTS EXXON 20/50W SYNTHETIC TESTED IGNITION LEADS, CLEANED AND GAPPED SPARK PLUGS. CHECKED MAGNETO TIMING. COMPRESSION CHECK #1 72/80 #2 76/80 #3 75/80 #4 70/80 #5 71/80 #6 71/80. A.D. 2005-12-06 MAGNETO IMPULSE FAILURE. N/A by ENGINE MANUFACTURE / MODEL. C/W A.D. 84-26-02 PAPER INDUCTION AIR FILTERS BY VISUAL INSP. **NEXT DUE @ 500hr. A/F TT (replacement) (recurring ea. 100hr., replace due ea. 500hr.)**

RUN UP, LEAK, OPERATIONAL / FUNCTIONAL CHECK SATISFACTORY. A.D.'S THRU 2006-05.

I CERTIFY THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 HOUR INSPECTION AND DETERMINED TO BE IN AIRWORTHY CONDITION.

J. KELLINGTON *J. Kellington* AP2661995

23 APRIL 2007 N9166Z M20R S/N 29-0035 HOBBS 2032.1 2162.2 A/F TT
 IO-550-G(5) S/N 679111 ENG. TT 1975.9hr. ENG. TSMOH 390.5hr.
 McCAULEY 3A32C418-C/G-82NTLC-9 S/N FP3067B PROP. TT 1060.1hr. PROP. TSNew 1060.1hr.

LUBRICATED AND PERFORMED CONTROL TRAVEL CHECKS. INSPECTED AND PERFORMED ELECTRICAL SYSTEM CHECK. CHANGED OIL and FILTER CH48109-1. SERVICED WITH 8 QUARTS EXXON 20/50W SYNTHETIC TESTED IGNITION LEADS, CLEANED AND GAPPED SPARK PLUGS. CLEANED FUEL INJECTORS. CHECKED MAGNETO TIMING. COMPRESSION CHECK #1 70/80 #2 65/80 #3 73/80 #4 70/80 #5 73/80 #6 72/80. A.D. 2007-05-04 UPPER ENG. MOUNT / INSULATION, N/A by A/F S/N. A.D. 2007-04-19R1 CYL. SEPARATION - SUPERIOR. N/A by Cyl. MANUFACTURER - ALL 6. (Engine O/H'd 3-2-2005, TCM Cyl. Assy# EQ7090). A.D. 2007-04-19 CYL. SEPARATION - SUPERIOR. N/A by Cyl. MANUFACTURER - ALL 6. (Engine O/H'd 3-2-2005, TCM Cyl. Assy# EQ7090). A.D. 2006-12-07 CYL. CRACKS - ECI. SUPERIOR. N/A by Cyl. MANUFACTURER - ALL 6. (Engine O/H'd 3-2-2005, TCM Cyl. Assy# EQ7090). C/W A.D. 84-26-02 PAPER INDUCTION AIR FILTERS BY REPLACEMENT. **NEXT DUE INSPECTION @ 2262 hr. A/F TT REPLACEMENT NEXT DUE @ 2662 hr. A/F TT (insp. recurring ea. 100hr., replace due ea. 500hr.)**

RUN UP, LEAK CHECK AND OPERATIONAL CHECKS SATISFACTORY. A.D.'S THRU 2007-08.

I CERTIFY THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 HOUR INSPECTION AND DETERMINED TO BE IN AIRWORTHY CONDITION.

J. KELLINGTON *J. Kellington* AP2661995

YEAR

DATE

6/6/08 IO-550-G(5) S/N 679111 Eng TT 2352.1 580.4 SMOH

Changed oil with X/C 20w-50. Changed filter with ch48109-1 filter. Split old filter And no metal found. Compression check 1. 72/80 2. 72/80 3. 71/80 4. 73/80 5. 75/80 6. 76/80. checked mag timing. Lubed controls. Checked ignition leads. Run up and Leak check satisfactory. I certify that this engine has been inspected in accordance With a 100 hour inspection and was determined to be in airworthy condition.
 Richard Ranheim *Richard Ranheim* AP2782108

d Alterations
 ate Number of
 pecific entries.)

AMR SERVICES INC.

Engine: TCM IO-550-G
 S/N: 679111

N9166Z

July 7, 2009

Engine TMOH: 754.9

Tach. Time: 2396.5

Performed the following maintenance:

1. Complied with an **Annual Inspection** referencing the Mooney M20R Maintenance Manual.
2. Performed a Differential Compression Check with the following results: Cylinders #1 77/80, #2 76/80, #3 76/80, #4 74/80, #5 76/80, #6 76/80
3. Verified the magneto-to-engine timing, found satisfactory.
4. Ground run the engine and found it functioning normally. Leak checks found to be satisfactory.

This engine has been inspected in accordance with FAR Part 43.13 Appendix D and is approved for return to service.

Authorized Signature: *Richard Ranheim*

Richard Ranheim 2782108 IA

End

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.)
3-22-05	hobbs	1641.6		Installed this engine on Mooney s/n 29-0035 N# 9166Z using new engine Isolator mounts, New oil and Fuel flexible hoses. Replaced + Repaired as required seat tubing. Cleaned Air filter. Inspected exhaust. Replaced all 4 Exhaust hangers Replaced 2 tanis probes and 2 heating pads. Replaced Alt Air door Magnet. Replaced worn areas of baffle Seal Replaced Vacuum Lines. Installed 2 new Baffling Springs Repaired Fuel Line from chaffing. Installed Supplied 100 Amp Alt. and Starter. Serviced engine with 9qts Phillips x 20 W50 Type M oil. Installed Serviced Propeller and overhauled governor from Maxwell Aircraft Services. Engine Runup & Setup completed

I hereby certify that this aircraft / Airframe / Engine has been thoroughly inspected as per existing
F.A.R.'s in accordance with an annual / 100 HR inspection and found to be in an airworthy condition.

Hobbs / Tach Time 1641.6 hrs. A/C Total Time 1771.7 hrs.

Time S.M.O.H. -0- hrs. Engine Total Time 1771.7 hrs.

Date of Prop O.H. / New 433.8 Time S.P.O.H. 433.8 hrs.

Next Annual Inspection Due 3-2006

3-22-05 Chris K ATP 471063829

Date Signature & License Number

MAKE	Continental	MODEL	IO-550-G	S/N	679111
Total Time	1771.7	Hours Time Since Major Overhaul	zero	Hours	

This engine was disassembled, cleaned, inspected and reassembled with necessary new parts in accordance with a major overhaul as per the manufacturer's current overhaul manual X30568A New tolerances and clearances were maintained. A detailed parts list is on file at this agency. The following accessories were overhauled or exchanged. See maintenance releases in this logbook.

Installed TCM cylinder kit P/N EQ7090, which includes cyl. valve assemblies P/N 655474A18, pistons P/N 654857BP, and piston pin P/N 630046. Installed one (1) Bendix magneto right, P/N 10-500556-1, S/N K289407D overhauled by Poplar Grove Airmotive, Inc. Installed low time magneto left P/N 10-500556-1, S/N J079807DR, with 91.8 hours SMOH bench tested and found in good working order. Installed fuel system P/N 649053A-1 which includes the following components T/CONT S/N A05BA087R, F/PMP S/N B05BA100R, M/VLV S/N C05BA076R. Installed oil cooler P/N 10195A, S/N K94-1572-182, overhauled by Pacific Oil Cooler Service, Inc. Supplied one (1) alternator P/N 649304R, S/N 001DA043R repaired by Aircraft Systems, Inc. Supplied one (1) starter P/N MHJ-4003, S/N A113437, repaired by Poplar Grove Airmotive, Inc. -----END-----

All applicable airworthiness directives and related factory publications have been checked for compliance at this date. See list in this log book. This engine was test run in an FAA approved test cell and meets specifications. The aircraft engine identified above was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service for the work performed. Pertinent details of repair are on file at this repair station under:

Poplar Grove Airmotive, Inc.
 Poplar Grove Airport, Poplar Grove, IL
 FAA Approved Repair Station #YYBR664L

Work Order # 8997 **Date** 3/2/2005

Konrad Parris 

Signed for Poplar Grove Airmotive, Inc.

and inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service for the work performed. Pertinent details of repair are on file at this repair station under:

Poplar Grove Airmotive, Inc.
 Poplar Grove Airport, Poplar Grove, IL
 FAA Approved Repair Station #YYBR664L

Work Order # 8997 **Date** 03/02/2005



Signed for Poplar Grove Airmotive, Inc.

MANUFACTURER: Continental		ENGINE MODEL: IO-550-G	S/N 679111	WO# 8997
AD #	DESCRIPTION	COMPLIANCE STATUS		
#86-13-04 R3	cylinder	N/A to new cylinders installed		
88-03-06	oil filter P/N 649309 and P/N 649310	N/A by filter P/N		
91-19-03	oil filter	N/A by filter P/N		
93-10-02	cylinder	N/A to new cylinders installed		
93-16-15	fuel pump drive coupling	P/C/W has updated shaft		
98-01-08	roller rocker arm	N/A roller rocker arms not installed		
99-19-01	crankshaft	N/A by crank S/N		
00-00-01	oil filter adapter	N/A by adapter model		
00-23-21	crankshaft	C/W IAW MSB00-5C		
#04-08-10	cylinder	N/A by installation of new cylinders		
Poplar Grove Airmotive, Inc. FAA Approved Repair Station # YYBR664L  Date: 03/02/2005				

DATE	TACH TIME	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.)
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TTAF U/K
A/C N9166Z
Mooney Ovation
Sept 24, 2004
S/N M-20R29-0035

LH magneto PN 10-500556-1R replaced with overhauled unit, SN 1079807 DR.
Aircraft ground run serviceable.

The maintenance described above has been performed in accordance with the applicable airworthiness requirements.


Signature

14

AMO # 329-62

1679.9 A/FTT

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.)
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10 Feb 2005 Hobbs 1641.6 Engine IT 1771.7 Removed
Engine for OH due to Metal cont.
and cracked cylinders.
Brin Meyer ACP471130665

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 Feb 2004	43 73/80			Compression Check #1 68/80 #2 72/80 #3 73/80 #4 70/80 #5 70/80 #6 74/80. Both Magnetos were removed 500 Hrs. in shop & all replaced (sparks, contacts, oil seals, 5 rings, rings, pulsed, timed & reinstalled. Exhaust system was repaired. Oil pressure checked. Replaced alternator air dash magnet, Karaschell breather line. Oil cooler was overhauled. Oil filter & oil cooler serviced. Replaced #2, 4, 5 & 6 cyl. rocker cover gaskets. Inspected stand by tree pump & shaft & pins. Checked & gapped spark plugs. Replaced exhaust stand & 6 cyl. changed oil & oil filter. 8 gal. Aeroshell 15/50 oil. Engine was washed & ready. Check completed.

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 Repair Facility. (See back pages for other specific entries.)
				I hereby certify that the engine is thoroughly inspected as per existing (Engine) F.A.R.'s in accordance with the regulations and found to be in an Airworthy (100 hrs.) Condition Tach Time 1405.08 Hrs. A/C Total Time 1535.08 Hrs. I.S.M.O.M. _____ Hrs. Engine Total Time 1535.9 Hrs. Date of Prop. O.M. _____ Time Since 433.8 Hrs. Next Annual Inspection Due Fall 2005 6 Feb 2004 Brian Nigh #4471130665 Date Signature and License Number Willmar Air Service, Inc. Willmar, MN
4-8-04	1573.6			Owner Approved maintenance, changed oil and filter Aeroshell 15/50
6-9-04	1628.2			Owner maintenance / changed oil & filter Aeroshell 15/50
9-12-04	1679.9			Owner maintenance / changed oil & filter Aeroshell 15/50

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.)
Jan 10, 2003	1666.1	157.1		Aircraft Total Time 1287.2 Aircraft Total Time Corrected by the use of Pilots flight log 100 hr. Insp. Compression test as follows. #170 #271 #372 #466 #571 #670 over 80, oil and filter changed. Bk Aeroshell 15-50 New Citrus 10, No metal in old filter. Serviced spark plugs, Repaired end plates on muffler by welding cracks, Insp. Starter and A.H. Installed new EGT Probe, and A.H. Air door magnets. Installed a serviceable used Tach Sensor in left mag. Timed mags to engine. Serviced spark plugs, installed a serviceable used Standby Vac System. Checked, engine controls serviced, Prop. blades and spinner, Engine Runup and Setup Completed.
				Next page →

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.)
				I hereby certify that this (Airframe) has been thoroughly inspected as per existing (Engine) F.A.R.'s in accordance with an (Annual) inspection and found to be in an Airworthy (100 H.R.) Condition Tach Time 1157.1 Hrs. A/C Total Time 1287.2 Hrs. T.S.M.O.H. _____ Hrs. Engine Total Time 1287.2 Hrs. Date of Prop. O.H. 8-30-01 Time S.P.O.H. 185.1 Hrs. Next Annual Inspection Due Jan 10, 2004 Jan 10, 2003 Jan E. East #A597281343. Date Signature and License Number Willmar Air Service, Inc. Willmar, MN
4-20-03	1334.7 1201.6			Owner Changed oil and Filter. Serviced 8 quarts Aeroshell 15W50. Owner Maint.
6-1-03	1389			Owner Changed oil + Filter. Serviced 8 qts Aeroshell 15W50 owner Maint
8-17-03	1440.3			Owner changed oil + Filter Serviced 8 qts Aeroshell Owner Maint.
10-18-03	1490			Owner changed oil + Filter. Serviced 8 qts Aeroshell Owner Maint.

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.)
11-28-2001	Nobbs	1104.1 hrs		Reinstalled engine and accessories after Engine Completed Tear down inspection. See previous page, 100hr insp. Completed Compression as follows: #1. 70 #2 73 #3 71 #4 70 #5 76 #6 71/80. Sgts Aerostell 75-50. A new C/H48105 installed. Inspected plugs, checked mag for engine timing. Reinstalled starter. Installed a new Alternator. Installed 3 new intake gaskets, and 2 new Intake flanges. Air filter was cleaned. Exhaust system inspected and reinstalled with new gaskets. Reinstalled Engine Controls, checked travel stop to stop. Reinstalled prop. P/W 3A 3024118-2 S/W 010287, and inspected spinner, serviced blades. Engine washed with solvent. Installed a M20 Perfol Separator according to ETC. Engine Runup Completed, according to M20-107.
				Encl. Next Page.

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.)
				hereby certify that this (engine) has been thoroughly inspected as per existing (engine) F.A.R.'s in accordance with a (annual) inspection and found to be in an satisfactory (100 hr.) condition Tach Time <u>1104.1</u> Hrs. A/C Total Time <u>1104.1</u> Hrs. T.S.M.O.H. <u> </u> Hrs. Engine Total Time <u>1104.1</u> Hrs. Date of Prop. S.H. <u>Nov 8-30-01</u> Time S.P.O.H. <u>2.0</u> Hrs. Next annual inspection due <u>Nov 2002</u> <u>Nov 28 2001</u> <u> </u> <u> </u> <u> </u> Signature and License Number WILLMAR AIR SERVICE INC. WILLMAR MINN
November 28, 2001	Nobbs	1105.0		Remains Defective starter + Installed
Serviceable used	M454003	start		ops check o.k. P/W 1B04 771355 - Paul
2123/03	1155.75			Oil Change + Filter Sgts Aerostell 15W50 Omnicore
9/11/03	1205.1			Oil Change + Filter Sgt Aerostell 15W50 Paul Hlt
10/2/03	1255.0			Oil Change + Filter Sgts Aerostell 15W50 Paul Hlt

MAKE	CONTINENTAL	MODEL	IO-550-G	S/N	679111
Total Time:	1104	Hours	Time Since Major Overhaul:		N/A
The aircraft engine identified above was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service for the work performed. (As detailed below) Pertinent details of repair are on file at this repair station under:					
Work Order #		6360	Date		11/6/01
Disassembled, cleaned and inspected engine due to propeller strike, in accordance with Teledyne Continental SB96-11. Installed 2 magnetos, right P/N 10-500556-1, S/N K289407D, left P/N 10-500556-1, S/N K289406D, overhauled by Aircraft Systems, Inc. Installed fuel control P/N 653353-1, S/N K21945A repaired by RLB Accessory Service. Supplied alternator P/N 649304A1, S/N 001DA043R rebuilt by Teledyne Continental Motors. This engine was test run in an FAA approved test cell and meets specifications. -----END---					
Poplar Grove Airmotive, Inc. Poplar Grove Airport, Poplar Grove, IL FAA Approved Repair Station #YYBR664L					
 Signed for Poplar Grove Airmotive, Inc.					

[illegible]

Engine Record General Information

Manufacturer Continental Model 10-SSD-G

Serial 679111 Type Certificate _____

This engine is currently installed in aircraft: _____

Minimum Octane Fuel _____ Oil Grade Summer _____ Winter _____

Magneto Time _____ Point Setting _____ Firing Order _____

Spark Plug Gap _____

Manufacturer's Recommended Overhaul at _____ hours

ENG. LOG #1 NEW
ENGINE

TELEDYNE CONTINENTAL



Gold Medallion Aircraft Engine

USE ONLY
FUEL
CONFORMING
TO ASTM D910.

USE OF AUTOMOTIVE
GAS IS NOT
APPROVED.

LOG

N 9166Z

AIRCRAFT N NUMBER

IO-550-G(5)

ENGINE MODEL NUMBER

679111

ENGINE SERIAL NUMBER

[illegible]

DATE	R.P.M.		TIME ON GROUND			TIME IN AIR			TOTAL TIME		REPAIRS - ADJUSTMENTS	SIGNATURE	LICENSE NUMBER
	Ground	Air	Hrs.	Min.	Total	Hrs.	Min.	Total	Hrs.	Min.			
10-10-01 Hobbs.			11	04	10								
Engine was removed from 129146Z S/W 29-0035 for tear down inspection due to prop strike. Compression test was taken (Hot) as follows, #164 #261 #365 #470 #576 #671/80. <i>[Signature]</i> ARP470803012													
End Log #1. Log #2 started 11-6-01.													
BROUGHT FORWARD													
TOTALS													

ENGINE LOG

DATE	R.P.M.		TIME ON GROUND			TIME IN AIR			TOTAL TIME		REPAIRS - ADJUSTMENTS	SIGNATURE	LICENSE NUMBER
	Ground	Air	Hrs.	Min.	Total	Hrs.	Min.	Total	Hrs.	Min.			
I hereby certify that this (aircraft) has been thoroughly inspected as per existing (engine)													
F.A.R.'s in accordance with a (visual) inspection and found to be in an airworthy (100 hr.)													
condition. Tach Time <u>1065.2</u> Hrs. A/C Total Time <u>1065.2</u> Hrs.													
T.S.M.O.H. <u>7</u> Hrs. Engine Total Time <u>1065.2</u> Hrs													
Date of Prop O.H. <u>NEW</u> Time S.P.O.H. <u>1065.2</u> Hrs													
Next annual inspection due <u>Sept 2001</u>													
<u>11 Sept 2000</u> <u>Will L. Beck</u> <u>AP47781355</u>													
Date Signature and License Number WILLMAR AIR SERVICE INC. WILLMAR MINN													
BROUGHT FORWARD													
TOTALS													

ENGINE LOG

DATE	R.P.M.		TIME ON GROUND			TIME IN AIR			TOTAL TIME		REPAIRS - ADJUSTMENTS	SIGNATURE	LICENSE NUMBER
	Ground	Air	Hrs.	Min.	Total	Hrs.	Min.	Total	Hrs.	Min.			
May-9-01											Hobbs 1098.1 Changed oil + Filter CH461091 Serviced with 8 QTS Acershell 15-50W. Run up no leaks Return to Service Scott Emerson A+P 47024352A		
July 21 - 01											Hobbs 1098.1 Changed oil Filter 8QTS 15-50W - Run Up Owners Maint. Done Not		
BROUGHT FORWARD													
TOTALS													

ENGINE LOG

[illegible]

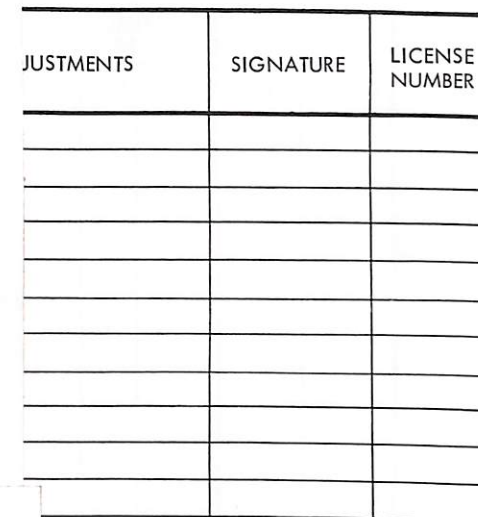
ENGINE LOG

DATE	R.P.M.		TIME ON GROUND			TIME IN AIR			TOTAL TIME		REPAIRS - ADJUSTMENTS	SIGNATURE	LICENSE NUMBER
	Ground	Air	Hrs.	Min.	Total	Hrs.	Min.	Total	Hrs.	Min.			
11 Sept 2000	Compression Check #1 60/80 #2 66/80 #3 66/80 #4 54/6 cylinders were replaced with cylinder cough from EC16 all new gaskets and seals were used. Checked Magneto timing. Installed 12 new RTB 32E Spark plugs. Oil cooler hoses removed and cracked flange was repaired by Pacific Oil cooler Service. 5 cracks in the muffler support were welded. Changed Oil and Oil filter, 800 Aeroshell 100 Non-Dot Oil. Engine now latched and Engine Setup check completed. New Oil Dipstick was Installed. (OVER)												
BROUGHT FORWARD													
TOTALS													

DATE		Gro				MODERN AERO, INC. 14801 PIONEER TRAIL EDEN PRAIRIE, MN 55347 612-941-2595		DATE <u>8-22-96</u> N <u>9166Z</u> TIME <u>691</u>		SIGNATURE		LICENSE NUMBER	
				FAA APPROVED REPAIR STATION MZER198L Changed oil & filter. Serviced with 8 Quarts of Aeroshell 15W50 oil. Reference Modern Aero Work Order# 24990.									
3-97		TACH TIME		811 HOURS		ANNUAL INSPECTION COMPLETED THIS DATE							
						COMPRESSION SHOWS @ 68/80 @ 68/80 @ 74/80 @ 66/80 @ 68/80 @ 62/18							
						CHECK MAG TIMING. CLEAN GAP AND TEST SPARK PLUGS. CLEAN							
						INJECTOR NOZZLES - CHECK EXHAUST SYSTEM. CHECK ENGINE							
						OPERATION.							
						I CERTIFY THAT THIS <u>ENGINE</u> HAS							
						BEEN INSPECTED IN ACCORDANCE WITH							
						ANNUAL INSPECTION AND WAS							
						DETERMINED TO BE IN AN AIRWORTHY CONDITION							
BROUGHT FORWARD						TOTAL TIME		811		DATE		4-3-97	
TOTALS												CHRIS C. GRADISAR: AP, 5234581591A	

[illegible]

[illegible][illegible]

[illegible]

DATE 5-22-96 TOTAL TIME 493.5
I CERTIFY THIS Engine HAS BEEN
INSPECTED IN ACCORDANCE WITH A 1802 hr 1802 hr
INSPECTION AND WAS DETERMINED TO BE 1802 hr
IN AIRWORTHY CONDITION.
FOR DETAILS SEE W/O 24735
AUTHORIZED SIGNATURE Greg Schmitt
MODERN AERO, INC., EDEN PRAIRIE, MN
FAA APPROVED REPAIR STATION MZER 1981

BROUGHT FORWARD
TOTALS

[illegible][illegible]

ENGINE LOG

DATE	R.P.M.		TIME ON GROUND			TIME IN AIR			TOTAL TIME		REPAIRS - ADJUSTMENTS	SIGNATURE	LICENSE NUMBER
	Ground	Air	Hrs.	Min.	Total	Hrs.	Min.	Total	Hrs.	Min.			
	 MODERN AERO, INC. 14801 PIONEER TRAIL EDEN PRAIRIE, MN 55347 612-941-2595 FAA APPROVED REPAIR STATION MZER198L CHANGED OIL AND FITLER. SERVICED WITH 8 QTS OF AEROSHELL 15W50 OIL. GROUND RUN-UP LEAK CHECK WAS SATISFACTORY. REF. MODER AERO W/O/ #24171 DATE <u>9-25-95</u> N <u>9166Z</u> TIME <u>280</u> <i>Richard Moline</i>												
BROUGHT FORWARD													
TOTALS													

ENGINE LOG

DATE	SIGNATURE	LICENSE NUMBER		
 MODERN AERO, INC. 14801 PIONEER TRAIL EDEN PRAIRIE, MN 55347 612-941-2595 FAA APPROVED REPAIR STATION MZER198L Completed a 100 hour inspection on this date. no Oil change. Mag timing ok. Compression record #1-77/80, #2-71/80, #3-74/80, #5-73/80, #6-61/80. cleaned, gapped, & rotated plugs Ignition leads tested ok. Filed & painted prop. Cleaned ind air filter. Washer engine & lubed controls. Run-up and leak check and general inspection satisfactory. DATE <u>10-13-95</u> N <u>9166Z</u> TIME <u>298.00</u> hobbs DATE <u>10-13-95</u> TOTAL TIME <u>298.00</u> I CERTIFY THIS <u>Engine</u> HAS BEEN INSPECTED IN ACCORDANCE WITH A <u>100 hr</u> INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION. FOR DETAILS SEE W/O <u>24258</u> AUTHORIZED SIGNATURE <i>Greg Schutte</i> MODERN AERO, INC., EDEN PRAIRIE, MN FAA APPROVED REPAIR STATION MZER 198L				
BROUGHT FORWARD				
TOTALS				

[illegible]

MODERN AERO, INC.
14801 PIONEER TRAIL
EDEN PRAIRIE, MN 55347
612-941-2595

FAA APPROVED REPAIR STATION MZER198L

100 HOUR INSPECTION COMPLETED THIS DATE. CHANGED OIL AND FILTER. NO METAL
DETECTED IN OLD FILTER. SERVICED WITH 8 QUARTS ABROSHHELL 15W50. CLEANED.
GAPPED TESTED AND ROTATED ALL SPARK PLUGS. COMPRESSION READINGS WERE. (1)
74/80 (2)76/80 (3)75/80 (4)75/80 (5)75/80 (6)65/80. A.D. 84-26-02 (INDUCTION
AIR FILTER) DUE AT 500 HOURS. RE-TORQUE SEVERAL ROCKER COVER GASKETS. CLEANED
ALL FUEL INJECTOR NOZZLES. RUN-UP AND LEAK CHECK SATISFACTORY.

DATE 8-9-95 TOTAL TIME 198-9
I CERTIFY THIS Engine HAS BEEN
INSPECTED IN ACCORDANCE WITH A 100 Hr
INSPECTION AND WAS DETERMINED TO BE
IN AIRWORTHY CONDITION.
FOR DETAILS SEE W/O 24045

AUTHORIZED SIGNATURE Bradley / Mitchell
MODERN AERO, INC., EDEN PRAIRIE, MN
FAA APPROVED REPAIR STATION MZER 198L

BROUGHT FORWARD

TOTALS

ENGINE LOG

R.P.M.

TIME ON

TIME IN

TOTAL TIME

ADJUSTMENTS

SIGNATURE

LICENSE NUMBER



MODERN AERO, INC.
14801 PIONEER TRAIL
EDEN PRAIRIE, MN 55347
612-941-2595

FAA APPROVED REPAIR STATION MZER198L

C/W AD 95-07-04 (MOONEY M20R EXHAUST SYSTEM CRACKS) PER MOONEY SERVICE BULLETIN M20-257, DATED FEBRUARY 28, 1995. NO CRACKS DETECTED IN THE ENTIRE EXHAUST SYSTEM. THIS AD NEXT DUE IN 5 HOURS OR 51.7 HOBBS TIME. WO #23659.

Bradley Mitchell

DATE 4-4-95 N 9166Z
TIME 46.7



MODERN AERO, INC.
14801 PIONEER TRAIL
EDEN PRAIRIE, MN 55347
612-941-2595

FAA APPROVED REPAIR STATION MZER198L

DATE 5-15-95 N 9166Z
TIME 84.7

CHANGED OIL AND FILTER, SERVICED WITH 8 QUARTS OF AEROSHELL 15W50 OIL. GROUND RUN-UP LEAK CHECK WAS SATISFACTORY. REFERENCE WO #23751

Richard Moline

BROUGHT FORWARD
TOTALS

ENGINE LOG



MODERN AERO, INC.
14801 PIONEER TRAIL
EDEN PRAIRIE, MN 55347
612-941-2595

FAA APPROVED REPAIR STATION MZER198L

DATE 6-1-95 N 9166Z
TIME 102.8 *hobbs*

COMPLETED 100 HOUR INSPECTION ON THIS DATE. CHANGED OIL WITH 8 QUARTS AEROSHELL 15W50. CHANGED FILTER WITH CH48109. SPLIT OLD FILTER & NO METAL FOUND. CHECKED MAGNETO TIMING AT 22 DEGREES BTDC. CLEANED & GAPPED SPARK PLUGS. CHECKED IGNITION LEADS. COMPRESSIONS CHECK - #1-78/80, #2-75/80, #3-75/80, #4-72/80, #5-76/80, #6-60/80. CLEANED FUEL INLET SCREEN. WASHED ENGINE & LUBED CONTROLS. RUN-UP & LEAK CHECK SATISFACTORY. GENERAL CONDITION OF THIS POWERPLANT IS SATISFACTORY AT THIS TIME & DATE. MAINTENANCE PERFORMED ON WO# 23821

Richard Moline

DATE 6-1-95 TOTAL TIME 102.8
I CERTIFY THIS POWERPLANT HAS BEEN
INSPECTED IN ACCORDANCE WITH A 10042
INSPECTION AND WAS DETERMINED TO BE
UNWORTHY CONDITION.
FOR DETAILS SEE WO# 23821
AUTHORIZED SIGNATURE *Richard Moline*
MODERN AERO, INC., EDEN PRAIRIE, MN
FAA APPROVED REPAIR STATION MZER198L

BROUGHT FORWARD
TOTALS

ADJUSTMENTS SIGNATURE LICENSE NUMBER

ENGINE LOG

R.P.M.	TIME ON GROUND	TIME IN AIR	TOTAL TIME	REPAIRS & ADJUSTMENTS	SIGNATURE	LICENSE NUMBER
 MODERN AERO, INC. 14801 PIONEER TRAIL EDEN PRAIRIE, MN 55347 612-941-2595		DATE <u>3-31-95</u> N <u>9166Z</u> TIME <u>34.4</u>				
FAA APPROVED REPAIR STATION MZER198L						
CHANGE OIL AND FILTER. NO METAL DETECTED IN OLD FILTER. ADDED 8 QUARTS PHILLIPS XC 20W50 MINERAL OIL. RUN-UP & LEAK CHECK SATISFACTORY. WORK ORDER #23653. <i>Bradley J Mitchell</i>						
 MODERN AERO, INC. 14801 PIONEER TRAIL EDEN PRAIRIE, MN 55347 612-941-2595		DATE <u>3-31-95</u> N <u>9166Z</u> TIME <u>34.4</u>				
FAA APPROVED REPAIR STATION MZER198L						
C/W MOONEY SERVICE BULLETIN M20-257 (MOONEY M20R EXHAUST SYSTEM, MUFFLER AND HEADER PIPES INSPECTION). NO CRACKS DETECTED IN ENTIRE EXHAUST SYSTEM THIS DATE - NEXT DUE IN 5 HRS. OR 39.4 HOBBS TIME. END. WO #23653-1. C/W AD 95-07-04 per SB M20-257 - PJM <i>Bradley J Mitchell</i>						

This engine model 1055065B, Serial No. 679111,
was manufactured on 12-6-94 by Teledyne Continental
Motors in accordance with approved design data and the applicable
requirements of Part 21 of the Federal Aviation Regulations. The
approved design data for this engine incorporates all changes required by
applicable Airworthiness Directives and Teledyne Continental Motors
Service Bulletins.

TELEDYNE CONTINENTAL MOTORS

Dennis D. Stewart

 **TELEDYNE CONTINENTAL MOTORS**
Aircraft Products