

THE
adlogTM

AIRCRAFT
MAINTENANCE
RECORDKEEPING
SYSTEM

**ENGINE
MAINTENANCE
RECORDS**

ENGINE MAINTENANCE RECORDS

Log No. 2

Aircraft Registration No. 5813F

Engine Manufacturer Lycoming

Model IO-360-A3B6D

Serial No. L-29181-51A

Date installed on aircraft 10-85

Time Between Overhauls (TBO) 2,000 Hours

If used on multi-engine aircraft:

☐ Right

☐ Left

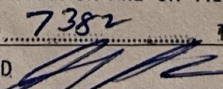
☒ Front

☐ Rear

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
				TOTALS brought forward from previous page
8/25/87	617	617	617	CERTIFY THAT THIS <u>ENGINE</u> HAS BEEN INSPECTED IN ACCORDANCE WITH A <u>100 hr.</u> INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION. REPAIRS THIS INSPECTION ARE ON FILE WITH THIS STATION UNDER W/O # <u>6884</u> TIME <u>617</u> DATE <u>8/25/87</u> SIGNED <u>[Signature]</u> FOR <u>[Signature]</u> PANORAMA FLIGHT SERVICES INC. CRS 111-128
I CERTIFY THAT THIS AIRCRAFT <u>ENGINE</u> HAS BEEN INSPECTED IN ACCORDANCE WITH A <u>100 hr.</u> INSPECTION. AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION. TIME IN SERVICE <u>617</u> HRS. DETAILS OF WORK CARRIED OUT HELD IN FILE NUMBER <u>6884</u> SIGNATURE <u>[Signature]</u> LICENSE # <u>24603722</u> DATE <u>8/25/87</u> PANORAMA FLIGHT SERVICE INC. WESTCHESTER COUNTY AIRPORT WHITE PLAINS, N.Y. 10604 P.T.T. 617 hrs. P.T.B.O. 1500 hrs. ANNUAL 3/88 T.T.E. 617 hrs. T.T.A.F. 617 hrs. T.B.O. 1800 hrs.				Inspection carried out John Moorey checklist. All Standard Service Items c/w. Changed oil & Filter. - cut open old Filter for Inspection - checks clean. Added 8 Qts. Aeroshell 15W50 + LW16702 to oil. (compression check (over 80)) 1) 76 2) 78 3) 78 4) 78. Cleared, gapped & Retuned Spark Plugs. Replaced Induction Air Filter Element. Ran up & back checked O.K. END
9/3/87	628			Installed Oil Pressure Transducer Modification Kit I/A/w Kit instructions and Blueprints. Kit P/N 946059-507 Ran up and back checked satisfactory. PERTINENT DETAILS OF THIS REPAIR ON FILE UNDER WORK ORDER # <u>6911</u> DATE <u>9/3/87</u> Authorized Signature <u>[Signature]</u> TACH <u>628</u> PANORAMA FLIGHT SERVICES INC. APPROVED REPAIR STATION 111-128
10/23/87	677			Changed Oil with 8 Qts 15W50 and LW16702 Replaced oil Filter with CH48103 Filter cut open old Filter for Insp OK Run up & leak check OK PERTINENT DETAILS OF THIS REPAIR ON FILE UNDER WORK ORDER # <u>6965</u> DATE <u>10/23/87</u> Authorized Signature <u>[Signature]</u> TACH <u>677</u> PANORAMA FLIGHT SERVICES INC. APPROVED REPAIR STATION 111-128
				SUB-TOTALS this page
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Page No.	DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
					TOTALS brought forward from previous page
3/8/88	848 hrs	Hobbs			Replaced Alternator 1/4 ALY-8420 Sh off 5\$000002 1/4 ON 6P000154 Performed Run-up + set VOLTAGE REGULATOR PERTINENT DETAILS OF THIS REPAIR ON FILE UNDER WORK ORDER # 7235 DATE 3/18/88 Authorized Signature  HOBBS 848 PANORAMA FLIGHT SERVICES INC. APPROVED REPAIR STATION 111-128
4/18/88	874	Hobbs			Changed oil with 8Qts 15W50 and 1W1602 Replaced Oil Filter with CH48103 Filter Cut open old Oil Filter for Insp O/K. Serviced Batt. and Tires Runup + Leak checked — end — PERTINENT DETAILS OF THIS REPAIR ON FILE James Brown UNDER WORK ORDER # 7282 DATE 4/18/88 A7P120543715 HOBBS 874 Authorized Signature _____ PANORAMA FLIGHT SERVICES INC. APPROVED REPAIR STATION 111-128
5/21/88	911	Hobbs			Performed inspection I/A/W Mooney checklist. compression check: #1 72/80 #2 74/80 #3 72/80 #4 72/80. CHANGED OIL + FILTER. Checked OLD FILTER ELEMENT. SERVICED WITH 8qts Aeroshell 15W50 OIL, + CH48103 FILTER. CLEANED, GAPPED, AND TESTED SPARK PLUGS. REPLACED ALL EXHAUST GASKETS, REPLACED BOTH CABIN HEAT SEAT HOSES. Performed Run-up + Leak checked I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A 100HR INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION. DETAILS OF THIS INSPECTION ARE ON FILE WITH THIS STATION UNDER WIO # 7382 TIME 911 DATE 5/21/88 SIGNED  FOR PANORAMA FLIGHT SERVICES INC. CRS 111-128
					SUB-TOTALS this page
					TOTALS—Carry forward to next page

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
				TOTALS brought forward from previous page
6/21/88	962	Hobbs		Changed oil with 8 Qts 15W50 Aeroshell and LW16702 Additive. Replaced oil Filter with CH48103 Filter. Cut open old oil Filter for Insp OK. Serviced Batt. and Tires. Runup & Leak check OK — end —
				James B. Blum APR 20 5 43 PM '88 PERTINENT DETAILS OF THIS REPAIR ON FILE UNDER WORK ORDER # 7491 DATE 6/21/88 HOBBS 962 Authorized Signature [Signature] PANORAMA FLIGHT SERVICES INC. APPROVED REPAIR STATION 111-128
7-29-88	1011.0	Hobbs		C/W 100 Hr. Inspection IAW FAR43 APP D. Using The Mooney checklist as a Guide. Engine oil Drained Oil Filter Inspected OK, Installed New CH48103 Filter Engine Serviced with 8qts Aeroshell 15W50 & LW16702 Additive. Cleaned Tested & Rotated Plugs Mag Timing Checks OK COMP TEST #1 72/80 #2 75/80 #3 75/80 #4 74/80 Cleaned Fuel Injectors cleaned Eng & Cowling Lubed Eng controls. Replaced #1, 2 & 3 Intake Gaskets. Engine Run up & Leak check OK.
	1011.0	TAF		I CERTIFY THAT THIS Engine HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 HR INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION. DETAILS OF THIS INSPECTION ARE ON FILE WITH THIS STATION UNDER W/O # 7528 TIME 1011.0 DATE 7-29-88 SIGNED [Signature] FOR PANORAMA FLIGHT SERVICES INC. CRS 111-128
8/2/88	1012.9	Hobbs		Installed new capacitor in Right mag. Operational check OK. Capacitor P/N 10-382807 PERTINENT DETAILS OF THIS REPAIR ON FILE UNDER WORK ORDER # 7547 DATE 8/2/88 HOBBS 1012.9 Authorized Signature [Signature] PANORAMA FLIGHT SERVICES INC. APPROVED REPAIR STATION 111-128
				SUB-TOTALS this page
				TOTALS—Carry forward to next page

Mfg. BENDIX Part No. 10-382555-11
Serial No. 7101219 ES No. 633
Model D4LN-2021

The aircraft, airframe, aircraft engine, propeller, or appliance identified above was overhauled and inspected in accordance with current Regulations of the Federal Aviation Administration and is approved for return to service.

Pertinent details of the overhaul are on file at this repair station under:

Order No. 16350 Date NOV 10 1987

Signed: Thomas Norrell

P.O. Box 273 205/227-8306 TWX 810-744-3450
FORT DEPOSIT, AL 36032 U.S.A.

F. A. A. APPROVED REPAIR STATION NO. 3779

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DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
4/14/89	1211 Hrs.	1211	1211	TOTALS brought forward from previous page PERFORMED INSPECTION AS PER MOONEY SERVICE MANUAL. ALL STANDARD SERVICE ITEMS Y/W. CHANGED OIL AND FILTER. INSPECTED OLD FILTER ELEMENT. SERVICED WITH 8QTs 15W50 AEROSHELL OIL AND CH48103 FILTER. COMPRESSION CHECK: #1 70% #2 78% #3 68% #4 74% REPLACED BRACKETT AIR FILTER-1/2 BA6205. CLEANED, GAPPED AND TESTED SPARK PLUGS. REPLACED ALTERNATOR BELT. A.D.'S CHECKED THRU ISSUE 89-06. AD78-09-07RS BENDIX MAGNETO DUE @ 1504HRS. PERFORMED RUN-UP AND LEAK CHECKED.
				I CERTIFY THAT THIS <u>POWER PLANT</u> HAS BEEN INSPECTED IN ACCORDANCE WITH A <u>ANNUAL</u> INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION. DETAILS OF THIS INSPECTION ARE ON FILE WITH THIS STATION UNDER W/O # <u>8085</u> TIME <u>1211</u> DATE <u>4/14/89</u> SIGNED <u>[Signature]</u> FOR PANORAMA FLIGHT SERVICES INC. CRS 111-128
5/24/89	1260			CHANGED OIL + FILTER. CUT OPEN OLD FILTER FOR INSPECTION - CHECKS CLEAN. ADDED 8 QTs. AEROSHELL 15W50 LLW/G202 ADDITIVE. GROUND RUN + LEAK CHECKED. PERTINENT DETAILS OF THIS REPAIR ON FILE UNDER WORK ORDER # <u>8109</u> DATE <u>5/24/89</u> HO3BS Authorized Signature <u>[Signature]</u> <u>1260</u> PANORAMA FLIGHT SERVICES INC. APPROVED REPAIR STATION 111-128
				SUB-TOTALS this page TOTALS—Carry forward to next page

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DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
1989				
11-7-89	HOBBS 1411	HOBBS 1411	HOBBS 1411	TOTALS brought forward from previous page
				PERFORMED A 100hr ENGINE INSPECTION AS PER MOONEY MAINTENANCE MANUAL. COMPLIED WITH ALL STANDARD SERVICE ITEMS. CHANGED OIL & FILTER. SERVICED ENGINE WITH 8 QTS. OF AEROSHELL 15W50 OIL. CUT OPEN OLD OIL FILTER ELEMENT & INSPECTED. REPLACED OIL FILTER WITH CH48103. COMPRESSION CHECK: #1 $7\frac{1}{80}$, #2 $7\frac{5}{80}$, #3 $7\frac{2}{80}$, #4 $7\frac{0}{80}$. A.D.'S CHECKED THRU ISSUES 89-21. PERFORMED RUN-UP & LEAK CHECKED. <u>Alban H. Bales AEP 79569590.</u>
				I CERTIFY THAT THIS <u>ENGINE</u> HAS BEEN INSPECTED IN ACCORDANCE WITH A <u>100 hr.</u> INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION. DETAILS OF THIS INSPECTION ARE ON FILE WITH THIS STATION UNDER W/O # <u>8567</u> TIME <u>1411</u> DATE <u>11-7-89</u> SIGNED <u>Jr. Farrell</u> FOR PANORAMA FLIGHT SERVICES INC. CRS 111-128
11-29-89	HOBBS 1421	HOBBS 1421	HOBBS 1421	REPLACED STARTER, 4lg. PRESTOLITE P/N M242222 S/N 910086 ES1 P/N 02041 (SEE YELLOW TAG). PERFORMED SEVERAL START RUN-UPS, OPS CHECKS GOOD. <u>Alban H. Bales AEP 79569590.</u> PERTINENT DETAILS OF THIS REPAIR ON FILE UNDER WORK ORDER # <u>8612</u> DATE <u>11-29-89</u> HOBBS Authorized Signature <u>Jr. Farrell</u> TACH <u>1421</u> PANORAMA FLIGHT SERVICES INC. APPROVED REPAIR STATION 111-128
2-26-90	HOBBS 1460.0			Changed engine oil and filter. Serviced with 7 qts Aeroshell 15W50. <u>LDJ</u> CRS 110-2
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Pritchett Aircraft Service				Repair Order
BOX 1208				
ROLLA, MISSOURI 65401				Nº
Name <u>Scott Charters</u>				Date Rec'd <u>6-24-91</u>
Address <u>Rolla Mo</u>				Promised
A/C MAKE	MODEL	S/N	A. T. T.	PHONE
Mooney	M20J	N. 5813F	24 1663	1676.0
REPAIRS WANTED				AMOUNT
Tack 1676.0 A C T T 1676.0				
Complied with AD 78-09-07A3				
this date. inspected impulse				
couplings as per para. C				
of AD. Found coupling OK.				
John R Pritchett				
AD 1473919				
AD Dug Again A C T T 2176.0				
11/22/91	TACH 1730.2			change oil - filter 8Q is Aeroshell 15 50 Vampskucht
1/1/92	TACH 1753.8			change oil - filter 8Q is Aeroshell 15 50 Vampskucht
3/1/92	TACH 1779.7			change oil - filter 8Q is Aeroshell 15-50 Vampskucht.
3/15/92	Hobbs Reads 1029.3 TACH Reads 1843.6			Engine S/N L-24181-51A Removed FOR MAJOR OVERHAUL this date. <i>Drawn AD 1040258</i>
X				
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THIS LYCOMING IO-360-A3B6D WAS OVERHAULED AND INSPECTED IN ACCORDANCE WITH CURRENT REGULATION OF THE FEDERAL AVIATION ADMINISTRATION AND IS APPROVED FOR RETURN TO SERVICE. PERTINENT DETAILS OF THE REPAIR OR OVERHAUL ARE ON FILE AT THIS REPAIR STATION UNDER WORK ORDER # 231 DATE 4-30-92
 CUSTOMER MANNING/KOENIGSKNECHT A/C # N5813F TOT. TIME A/C 1843.6
 TOTAL TIME ENG. 1843.6 SER. # L-24181-51A 0.0 TSMO
 NOTE: THIS ENGINE WAS OVERHAULED TO FACTORY NEW SPECIFICATIONS. ALL AD'S WERE CHECKED FOR COMPLIANCE THRU 92-07. ENGINE WAS SUPPLIED WITH OVERHAULED MAGNETO, ALTERNATOR, FUEL SYSTEM, GOVERNATOR, FUEL & OIL HOSES, ENGINE MOUNTS, IGNITION HARNESS, PLUGS, AND STARTER WAS REPAIRED.-----
 AUTHORIZED SIGNATURE Dennis Malone # WNYR881K

WINDY CITY ENGINE
AND ACCESSORY, INC.

WINDY CITY ENGINE AND ACCESSORY, INC.		REPAIRED ONLY	
524 Ch (31) LIMITED WARRANTY This limited warranty certificate is in connection with its repair or overhaul of the purchaser identified below. WCE and its employees shall be free from defects in workmanship and defects in design of engines and accessories for a period of 12 months, which event shall occur first, from the date of repair or overhaul. WCE's limited warranty does not cover materials provided by WCE causing damage to parts or accessories which have been stored, handled, repaired, altered, maintained, or used in accordance with the manufacturer's recommendations, or which have been subjected to neglect or accident, (iii) parts, materials, or workmanship which have been used and maintained without valid logbook entries, or (iv) parts, materials, or workmanship which have been used and maintained without valid logbook entries, or (v) parts, materials, or workmanship which have been used and maintained without valid logbook entries. Repair or replacement of an engine, component or accessory will not be required if such damages are a direct result of improper assembly or use of aircraft.		STARTER COMPONENT NAME <u>MZ 4222R</u> MODEL OR TYPE <u> </u> PRESTOLITE MANUFACTURER NAME <u>9100866</u> SERIAL NUMBER <u> </u>	
Only the labor operations requested by the customer have been accomplished on this part. Windy City Engine assumes no liability of any nature for the performance, use or operation of this part due to customer not requesting complete inspection and overhaul. Final inspection and repair must be done before release of this part for service. Pertinent details of the repair are on file at this repair station.			
SIGNED <u>Dennis Malone</u> W.O. # <u>231</u> DATE <u>4/20/92</u> Windy City Engine And Accessory, Inc. 5240 W. 63RD ST. Chicago, IL 60638 312-735-2242 C.R.S. NO. WNYR881K		We both hereby acknowledge that we have read, understand and agree to the terms and conditions of the warranty certificate.	
Make/Model <u>LYCOMING IO-360-A3B6D</u> Serial No. <u>L-24181-51A</u> Work Order <u>231</u> Date <u>4-30-92</u> By <u>Dennis Malone</u> WINDY CITY ENGINE AND ACCESSORY, INC.		Purchaser <u>MANNING/KOENIGSKNECHT</u> Title <u> </u>	

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Sept. 3, 1992 Aircraft TT. 1938.0 hrs. Engine TSMO. 94.8 hrs. Removed defective AC engine driven fuel pump. Installed overhauled AC engine driven fuel pump from Aero Accessories Inc. Ran up engine and checked for leaks and proper fuel pressure. No leaks noted and fuel pressure checks normal. Rerigged flaps to remove heavy right wing in flight per Mooney Tech Rep. Flight tested to check for wings level flight. Conducted stalls to check for straight break in stall. All phases of flight test were normal. Aircraft found to be airworthy and is returned to service. T. Benton Miller 322400700 A&P <i>J. Benton Miller 322400700 A&P</i> Sandwich Airport Sandwich, IL. 60548				
10-9-92 HM 1977.1 Oil change and cut filter open to check for metal OK added 8qt 50 Non Det. Compression test 1, $\frac{76}{80}$ 2, $\frac{76}{80}$ 3, $\frac{77}{80}$ 4, $\frac{79}{80}$				
The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and is airworthy for return to service. Signed <i>[Signature]</i> Kenosha Aero, Inc., Certificate No. KABR 076A				
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DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
3/15/93	2061.8	218.6	2061.8	TOTALS brought forward from previous page
				Complied with Aero Accessories Mandatory Service Bulletin 002. Dated Feb. 25, 1993. Removed Engine driven diaphragm fuel pump Ser# 92C 063 and installed overhauled diaphragm fuel pump Ser# 92C 037 by Aero Accessories.
				Engine was test run and checked for proper fuel pressure and leak checked. Aircraft is in Airworthy condition and is returned to service this date 3-15-93
				Tracy Ben Miller 322400700 A+P

SERVICEABLE PART

MANUFACTURER AC LYCOMING

PART NAME FUEL PUMP

MODEL 41234

PART NO. 1

SERIAL NO. 93 C 037

REMARKS: OVERHAULED & TESTED

ACCOMPLISHED BY: T. WALL

THE AIRCRAFT COMPONENT IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH CURRENT REGULATIONS OF THE FEDERAL AVIATION AGENCY AND IS APPROVED FOR RETURN TO SERVICE. FURTHER DETAILS OF THE REPAIR ARE ON FILE AT THIS REPAIR STATION UNDER THIS ORDER NO.

DATE 3-12-93

FAA-RPM
#2417124Signed Tracy Ben Miller
Signature of Authorized Representative

FOR:

AERO ACCESSORIES INC.

1240 Springwood Church Road

Gibsonville, NC 27249

FAA Cert Rep. Sta. No. YV4R688M

(919) 449-5054 • (800) 822-3200 • Telex: 9102400614

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
TOTALS brought forward from previous page				
Date <u>5-5-93</u> Indicates <u>202.0 hrs</u> on <u>Tach</u>				A.D. conformity checked through card No. <u>93-811</u> Service letters checked for compliance through _____ Inspection check list & pertinent details of repair on file at this agency under work order No. <u>7470</u>
I certify this powerplant, airframe has been inspected according to a 100-hour annual inspection and was determined to be in airworthy condition. Total Time <u>203.2</u>				
<u>TIESMOH 248.4</u> <u>TIP 2092.</u> <u>TIPS MOH 645.</u> <u>Compressors test 1, $\frac{72}{80}$ 2, $\frac{74}{80}$ 3, $\frac{74}{80}$ 4, $\frac{72}{80}$</u> <u>Air change and filter cut filter open to check for metal OK</u> <u>Added 8 qt Mobil 1. Cleaned and gapped spark plugs. Cleaned fuel nozzles. Resealed oil dip stick tube, and oil quick drain new seal in quick drain. Patched left front baffle and replaced clamps on scot tube on right side of engine. Replaced Brackett air filter element.</u>				The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Signed <u>Janet F. Pitter</u> for Kenosha Aero, Inc., Certificate No. KABR 076A
<u>7-13-93</u>	<u>Hobbs 2133.5</u>			<u>C/W AD 93-02-05 by Inspection.</u> <u>and SB 342A Fuel injection lines</u>
				The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Signed <u>Michael C. McElhiney</u> for Kenosha Aero, Inc., Certificate No. KABR 076A
<u>12-31-93</u>	<u>Hobbs 2207.1</u>			<u>Compression test: #1 $\frac{79}{80}$, #2 $\frac{79}{80}$, #3 $\frac{79}{80}$, #4 $\frac{79}{80}$. Installed new spark plug (lower) in #1 cylinder. Changed oil and Filter. Added 8 qts Mobil One. Cut open old Filter no metal found.</u>
				The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Signed <u>Michael C. McElhiney</u> for TOTALS—Carry forward to next page Kenosha Aero, Inc., Certificate No. KABR 076A

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
TOTALS brought forward from previous page				
Date <u>4-11-94</u> Indicates <u>2231.3</u> hrs on <u>Tach</u>				A.D. conformity checked through card No. <u>94-7M</u> Service letters checked for compliance through <u> </u> Inspection check list & pertinent details of repair on file at this agency under work order No. <u>9904</u>
I certify this powerplant, 2231.3 has been inspected according to a 2231.3 annual inspection and was determined to be in air worthy condition. Total Time <u>387.7 SMOH</u>				
Compression test: 1. $\frac{73}{80}$, 2. $\frac{72}{80}$, 3. $\frac{73}{80}$, 4. $\frac{72}{80}$. Changed oil filter, added 8 qts. Mobil One. Cut open old Filter no metal found. C/W AD 93-2-5 Fuel injector lines by inspection, next due 2331.3. Installed new fuel injector line on #3 cylinder. Replaced two exhaust bolts. Replace oil drain hose on #1 cylinder. Replaced baffle spring on #1 and #3 cylinder. Runup and leak check good.				
The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Signed <u>Michael C. McElroy</u> for Kenosha Aero, Inc., Certificate No. KABR 076A				
7-11-94	Hobbs	2275.1		Changed oil and Filter, added 8 qts Mobil AV-1. Cut open old Filter no metal Found. Runup and leak check good.
The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Signed <u>Michael C. McElroy</u> for Kenosha Aero, Inc., Certificate No. KABR 076A				
8-5-94	Hobbs	2317.3		Cleaned Fuel injector nozzles, and installed one new spark plug
The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Signed <u>Michael C. McElroy</u> for Kenosha Aero, Inc., Certificate No. KABR 076A				
SUBTOTALS				1511.199
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KENOSHA AERO
 9420 52nd Street
 Kenosha, WI 53144
 414-658-2025
 FAX 414-658-0295
 Engine Log Book Insert

9-29-94
 N5813F
 Hobbs: 2339.0

Removed #2 cylinder spark plugs, cleaned and tested. Checked leads and cleaned. Run up checks good.

The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service.
 Signed Michael C. McClary for
 Kenosha Aero, Inc., Certificate No. KABR 076A

Date 4-26-95 Indicates 2409.3 hrs on Hobbs
 I certify this powerplant, ~~XXXX~~ has been inspected according to a ~~XXXX~~ annual inspection and was determined to be in airworthy condition. Total Time 565.7 SMOH

A.D. conformity checked through card No. 95-8M Service letters checked for compliance through XXXX
 Inspection check list & pertinent details of repair on file at this agency under work order No. 10474

Compression test: $1 \frac{70}{80}$, $2 \frac{69}{80}$, $3 \frac{70}{80}$, $4 \frac{69}{80}$. Cleaned and gaped spark plugs. Cleaned fuel injector nozzles. C/W AD 78-9-7 R3 Impulse Coupling, by inspection, next due 2909.3
 Tightened all rocker cover screws. Installed one baffel spring on right side. Repaired alternator wire. Changed oil and Filter, added 8 qts 15W50 Aeroshell. Cut open old Filter no metal found. Repositioned tail pipe. Runup and leak check good.

The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service.
 Signed Michael C. McClary for
 Kenosha Aero, Inc., Certificate No. KABR 076A

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				TOTALS brought forward from previous page
Date <u>5-1-96</u> Indicates <u>2500.0</u> hrs on <u>Hobbs.</u>				A.D. conformity checked through card No. <u>96-8M</u> Service letters checked for compliance through _____
I certify this powerplant, engine has been inspected according to a 100-hour annual inspection and was determined to be in airworthy condition. Total Time <u>656.4 SMOH</u>				Inspection check list & pertinent details of repair on file at this agency under work order No. <u>10960</u>
Compression test: $1 \frac{74}{80}$, $2 \frac{76}{80}$, $3 \frac{74}{80}$, $4 \frac{74}{80}$. Cleaned and gaped plugs. C/W AD93-2-5 Fuel Injection lines, by inspection, due 2600. Runup and leak check good.				
The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Signed <u>Michael C. McElroy</u> for Kenosha Aero, Inc., Certificate No. KABR 076A				
6-17-96 Task 2512.3 Oil change and filter, cut filter open to check for Metal OK Added 8qt 15W50. Sampled oil. Check Mag timing and adjusted timing to engine. Replaced baffle seal around Top of engine. Cleaned and tested plugs. Cleaned fuel nozzles.				
The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Signed <u>Jack J. Ritter</u> for Kenosha Aero, Inc., Certificate No. KABR 076A				
SUB-TOTALS this page				
TOTALS—Carry forward to next page				

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
TOTALS brought forward from previous page				

5813F

KENOSHA AERO
9420 52nd Street
Kenosha, WI 53144
414-658-2025
FAX 414-658-0295
Engine Log Book Insert

10-15-96

Tach 2538.5

Oil change and filter, cut filter open to check for metal OK Added 8qt 15W50 Aeroshell. Checked battery, brake fluid, lights, tire pressure and screw in hub cap. Sample oil.

The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service.

Signed [Signature] for
Kenosha Aero, Inc., Certificate No. KABR 076A

11-8-96

AD date 10-29-96 96-23-03

regarding high pressure fuel pump
does not apply to N5813F

[Signature]
11-8-96

Date 5-15-97 Indicates 2565.9 hrs on Tach

I certify this powerplant, airframe has been inspected according to a 100-hour annual inspection and was determined to be in airworthy condition. Total Time 2563.9 TTE

A.D. conformity checked through card

No. 97-911 Service letters checked

for compliance through

Inspection check list & pertinent details of repair on file at this agency under work order No. 11366

TIESMOH 720.3 TIPSMOH 136.5 TIP 2563.9 Compression test 1. ⁷⁶80.2, ⁷⁵80.3, ⁷²80.4, ⁷⁵80.5

Oil change and filter, cut filter open to check for metal (OK) Took oil sample. Added 8qt 15W50 Aeroshell. Cleaned and gaped spark plugs. Cleaned fuel injector nozzles. Repaired 1/4 front baffle.

The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service.

Signed [Signature] for
Kenosha Aero, Inc., Certificate No. KABR 076A

SUB-TOTAL this page

TOTALS—Carry forward to next page

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
				TOTALS brought forward from previous page

5831F

HM 2587.7

9-23-97

KENOSHA AERO
 9420 52nd Street
 Kenosha, WI 53144
 414-658-2025
 FAX 414-658-0295
 Engine Log Book Insert

Oil change and filter, cut filter open to check for metal OK. Added 8qt 15W50 oil, Oil sample taken. Washed and test run engine, check for leaks OK. Repaired wiring on CHT system.

The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service.
 Signed Jack F. Rutter for

Kenosha Aero, Inc., Certificate No. KABR 076A

5831F

HM 2587.7

9-23-97

KENOSHA AERO
 9420 52nd Street
 Kenosha, WI 53144
 414-658-2025
 FAX 414-658-0295
 Airframe Log Book Insert

25HR inspection, added water to battery, Reinstalled headrest on left seat.

The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service.
 Signed Jack F. Rutter for

Kenosha Aero, Inc., Certificate No. KABR 076A

SUB-TOTALS this page

TOTALS—Carry forward to next page

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
				TOTALS brought forward from previous page
Date <u>5-6-98</u> Indicates <u>2603.3</u> hrs on <u>Tach</u>	I certify this powerplant, <u>[redacted]</u> has been inspected according to a <u>[redacted]</u> annual inspection and was determined to be in air-worthy condition. Total Time <u>2603.3</u>			A. D. conformity checked through card No. <u>78-811</u> Service letters checked for compliance through <u>[redacted]</u> Inspection check list & pertinent details of repair on file at this agency under work order No. <u>11691</u>
TIES MOH 759.7 TTPS MOH 175.9 TTP 2603.3 Oil change and filter, cut filter open to check for metal OK, Added 8qt 100W Cleaned and gaped plugs Compression Test 1, ⁷⁸/₈₀ 2, ⁷⁸/₈₀ 3, ⁷⁸/₈₀ 4, ⁸⁰/₈₀				
The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Signed <u>[Signature]</u> for Kenosha Aero, Inc., Certificate No. KABR 076A				
9-16-98 Tach 2630.1 Oil change and filter cut filter open to check for metal OK, Added 8qt 15W50, Test run and checked for leaks. Replaced prop spinner and painter, PN 68003L615				
The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Signed <u>[Signature]</u> for Kenosha Aero, Inc., Certificate No. KABR 076A				
				SUB-TOTALS this page
				TOTALS—Carry forward to next page

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
				TOTALS brought forward from previous page

N5813F
10-1-98
Task 2631.9

KENOSHA AERO
9420 52nd Street
Kenosha, WI 53144
414-658-2025
FAX 414-658-0295
Airframe Log Book Insert

Replaced Vacuum pump 211CC S/N 2AN-869
and hose from pump to firewall. New Pump,
Vacuum cleaned system before installing new pump.

The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service.
Signed Paul J. Ritter for
Kenosha Aero, Inc., Certificate No. KABR 076A

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OWNERS COPY FOR PERMANENT RECORDS

AIRBORNE DRY AIR PUMP WARRANTY

AIR PUMPS

Parker Hannifin Corporation, Airborne Division, (Airborne) warrants that all dry air pumps shall be free from defects in material and workmanship under normal use and service until the earlier of: (1) one year after the date of installation on the aircraft or, (2) the following hours of airframe time occurs:

211 and 212 Series 1,000 hours

240, 440 and 840 Series 400 hours

Auxiliary Pump 500 hours

Clutch Pumps 400 hours

CONDITIONS:

The warranties stated above are valid if, and only if, the following conditions are met: (1) the product shall be installed into the aircraft within 24 months of the date of product manufacture; (2) installation, maintenance and operation of the product shall have been in accordance with the specifications and instructions provided by Airborne; (3) the warranty claim, with all requested information properly supplied, has been returned to Airborne within 30 days of the date of removal of the malfunctioning product from the aircraft; (4) no substitute parts shall be installed in the product without the prior authorization of Airborne. Any claims under this warranty should be made through the distributor, freight prepaid, to Parker Hannifin Corporation, Airborne Division, 711 Taylor Street, Elyria, OH 44035.

LIMITATIONS AND EXCLUSIONS

This warranty shall not apply to any product(s) which shall have been disassembled, repaired or altered outside the Airborne Service Department unless express prior written authorization was granted; nor shall this warranty apply to any product that has been subjected to misuse or accident unless proof is submitted to the satisfaction of Airborne that such misuse or accident was not a cause for the claimed defect.

THE SOLE RESPONSIBILITY AND LIABILITY OF AIRBORNE AND THE EXCLUSIVE REMEDY UNDER ANY CLAIM ARISING OUT OF, CONNECTED WITH, OR RESULTING FROM, THIS SALE OR THE PERFORMANCE OR BREACH OF ANY CONDITION OR WARRANTY THEREUNDER, OR FROM THE MANUFACTURE, DELIVERY, OR USE OF THE PRODUCT SHALL BE THE REPAIR OF, REPLACEMENT, OR CREDIT FOR THE DEFECTIVE PRODUCT AT AIRBORNE'S OPTION.

IN NO EVENT, WHETHER AS A RESULT OF A BREACH OF CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE) OR OTHERWISE, SHALL AIRBORNE BE LIABLE FOR ANY SPECIAL, CONSEQUENTIAL, INCIDENTAL OR PENAL DAMAGES OR EXPENSES INCLUDING BUT NOT LIMITED TO LOSS OF PROFIT, GOODWILL, OR REVENUES, LOSS OF THE USE OF THE PRODUCT OR ANY ASSOCIATED EQUIPMENT, DAMAGE TO ASSOCIATED EQUIPMENT, COST OF CAPITAL, COST OF SUBSTITUTE PRODUCTS, FACILITIES OR SERVICES, DOWNTIME, COSTS ASSOCIATED WITH PRODUCT REMOVAL OR REPLACEMENT, OR COST OR CLAIMS OF THIRD PARTIES FOR SUCH DAMAGES OR EXPENSES.

THE FOREGOING WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES OR REMEDIES WHETHER WRITTEN, ORAL, IMPLIED OR STATUTORY. ANY AND ALL IMPLIED WARRANTIES OR MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, COURSE OF DEALING OR USAGE OF TRADE ARE HEREBY EXPRESSLY DISCLAIMED AND EXCLUDED.

Acceptance of this product shall constitute acknowledgment and acceptance of the terms, provisions, limitations and exclusions set forth herein. Such terms, provisions, limitations, and exclusions shall not be modified, deleted or supplemented except by an express written acknowledgment of Airborne.

Owner Steve Koenigsknecht Aircraft Tach Time 2631.9 SI300-11
Aircraft Make Mooney Model # M20J Registration # 5813F
Pump Model # 211CC Pump Serial # 02AN000869 Date 10-1-98
Installing Facility Name Kenosha Aero Signature Jack J. Ritter
(Tear Along Dotted Line)

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
TOTALS brought forward from previous page				
Date <u>5-14-99</u> Indicates <u>2654.1</u> hrs on <u>Tach</u>				A.D. conformity checked through card No. <u>99-1014</u> Service letters checked for compliance through _____ Inspection check list & pertinent details of repair on file at this agency under work order No. <u>11994</u>
I certify this powerplant, airframe has been inspected according to a 300 annual inspection and was determined to be in air-worthy condition. Total Time <u>2654.1</u>				
Compression test 1. $\frac{71}{80}$ 2. $\frac{70}{80}$ 3. $\frac{76}{80}$ 4. $\frac{74}{80}$ Oil change and filter, cut filter open to check for metal OK Added 8qt 100W. Cleaned and gaped spark plugs, Took oil sample. EWAD93-25 Fuel Injector Lines by inspection and clamp adjustment. next due 2745.1 or removal, Test run and check for leaks.				
The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Signed <u>Frank J. Hittler</u> for Kenosha Aero, Inc., Certificate No. KABR 076A				
<u>9-10-99 H/M 2676.8</u> Oil change and filter cut filter open to check for metal OK Took sample. Added 8qt 15W50 Aeroshell. Aired up twice and checked battery. Adjusted fuel caps				
The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Signed <u>Frank J. Hittler</u> for Kenosha Aero, Inc., Certificate No. KABR 076A				
SUB-TOTALS this page				
TOTALS—Carry forward to next page				

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
				TOTALS brought forward from previous page
Date 5-8-00	Indicates 2704.5 hrs on Tech			A. D. conformity checked through card No. <u>CD-09</u> Service letters checked for compliance through <u> </u>
I certify this powerplant, airframe has been inspected according to a 100 hour annual inspection and was determined to be in airworthy condition. Total Time <u>2704.5</u> Hrs.				Inspection check list & pertinent details of repair on file at this agency under work order No. <u>12237</u>
TTS MOH 857.9 TTS MOH 274.1 TTS 2704.5				
Oil change and filter, cut filter open to check for metal OK. Added 8qt 15W50. Replaced #3 cyl rocker cover gasket, oil drain line hoses, and right 9/8 cyl baffles spring. Replaced alt belt and cleaned crankshaft hole. Tightened all mounting bolts on governor and Magn. Cleaned and reglazed gasket on bracket air filter. Removed fuel flow gauge and had tested OK. Cleaned and gaped spark plugs. Compression test 1, 80 2, 80 3, 80 4, 80. Cleaned fuel injection nozzles, and cleaned screen in injector. Oil sample taken.				
The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Signed <u>John J. Ritter</u> for Kenosha Aero, Inc., Certificate No. KABB 076A				
7-21-00	2726.8			Oil change and filter, cut filter open to check for metal OK. Add 8qt 15W50 oil. Sampled oil. Washed engine test run checked for leaks.
The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Signed <u>John J. Ritter</u> for Kenosha Aero, Inc., Certificate No. KABB 076A				
				SUB-TOTALS this page
				TOTALS—Carry forward to next page

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
				TOTALS brought forward from previous page
10-26-00				Tach 2755. Oil change and filter, cut filter open to check for metal OK added 8qt 15W50 Oil sample, checked Battery, brake fluid, tires, lights.
				The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Signed <u>Jack J. Ritter</u> for Kenosha Aero, Inc., Certificate No. KABR 076A
2-28-01				Tach 2771.7 Removed Mag for repair by RLB Accessory Service % 01139 % AD96-12-07 Impulse Coupling SB# 526 See yellow tag 2-26-01, Installed on engine and timed. Repaired "P" leak.
				The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Signed <u>Jack J. Ritter</u> for Kenosha Aero, Inc., Certificate No. KABR 076A

MAINTENANCE RELEASE

UNIT NAME Magneto SERIAL NO. 7101219PART NO. D4LN-2021 (10-382555-11) MFG. Bendix
☐ OVERHAUL ☒ REPAIRED ☒ TESTED ☒ INSPECTED ☐ FUNCTIONAL TESTED

The Aircraft component identified above was repaired and/or 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 the repair are on file at this repair station under work order # 01139

OWNER Kenosha Aero DATE 02-26-01 SIGNED FOR Robert C. Bejn

R L B ACCESSORY SERVICE

971 Babbitt Avenue • Addison, Illinois 60101-1221

FAA Approved repair station # KB2R946K

over

SUB-TOTALS this page

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DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
TOTALS brought forward from previous page				
Date 4-6-01	Indicates 2786.1 hrs on	HM		A. D. conformity checked through card No. 01-117 Service letters checked for compliance through <u> </u> Inspection check list & pertinent details of repair on file at this agency under work order No. <u>12460</u>
I certify this powerplant, airframe has been inspected according to a 2786.1 annual inspection and was determined to be in air-worthy condition. Total Time <u>2786.1</u>				
TIES MPH 942.5 TIP 2786.1 TIPS MOH 358.7				
Compression test 1. ⁷⁸ / ₈₀ 2. ⁷⁸ / ₈₀ 3. ⁷⁸ / ₈₀ 4. ⁷⁸ / ₈₀ oil change and filter, cut filter open to check for metal OK Added 8qt 15W50 oil. Oil sampled, & AD93-2-5 Fuel injection lines by inspection, next due Annual, 100HR, removed. Replaced spark plugs. RHM 38E. Replaced #2 cyl rocker cover gasket and tighten oil drain tube fitting. Tighten #4 rocker cover screws. Adjusted prop control. Cleaned fuel nozzles.				
The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Signed <u>Jack J. Ritter</u> for Kenosha Aero, Inc., Certificate No. KABR 076A				
6-13-01	278.5	278.5		Oil change and filter, cut filter open to check for metal OK Checked Mag timing to engine, leads, and cleaned and gaped plugs.
The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Signed <u>Jack J. Ritter</u> for Kenosha Aero, Inc., Certificate No. KABR 076A				
9-18-01		2834.3		Oil change and filter, cut filter open to check for metal OK Added 8qt 15W50 oil. Oil sampled. Cleaned and gaped plugs. Tested leads. Test run and check for leaks.
The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Signed <u>Jack J. Ritter</u> for Kenosha Aero, Inc., Certificate No. KABR 076A				
SUB-TOTALS this page				
TOTALS—Carry forward to next page				

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
TOTALS brought forward from previous page				
Date <u>4-10-02</u> Indicates <u>28532</u> hrs on <u>H/M</u>				A. D. conformity checked through card No. <u>02-7m</u> Service letters checked for compliance through <u>C</u>
I certify this powerplant, airframe has been inspected according to a 100 hour annual inspection and was determined to be in air-worthy condition. Total Time _____				Inspection check list & pertinent details of repair on file at this agency under work order No. <u>12749</u>
Compression Test 1. $\frac{79}{80}$ 2. $\frac{80}{80}$ 3. $\frac{78}{80}$ 4. $\frac{80}{80}$ Tighten clamp on #3 cyl. EGT probe. Oil change and filter, cut filter open to check for metal OK. Oil sample. Added 8 qt 15W50. Removed throttle rod end and installed on the other side of arm. Replaced baffle spring on RH side of engine. Replaced Starter with OH. unit, from Modified Aircraft Accessories Inc. MZ 4222 Sn 6A000054.				
The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found				

Modified Aircraft Accessories Inc.

800 Brooks Forrest Rd.
Brooks, KY 40109
Repair Station #MO6R900J

(502) 957-6312
(800) 605-2113
Fax: (502) 957-6217

Work Order 5693

CUSTOMER INFORMATION

Customer: Kenosha Co
9420 52nd
Kenosha, WI

Date Received: _____

Date Repaired: 04-04-

Preliminary Inspection:

Starter OK
overhaul

UNIT INFORMATION

1 U.S.A..		2 FAA FORM 8130-3 AIR WORTHINESS APPROVAL TAG U.S. Department of Transportation Federal Aviation Administration		3 System Tracking Ret. No. <u>5693</u>	
4 Organization Modified Aircraft Accessories Inc. 800 Brooks Forrest Road Brooks, KY 40109 CRS.#MO6R900J		5 Work Order, Contract, or Invoice Number <u>5693</u>			
6 Item	7 Description	8 Part Number	9 Type	10 Quantity	11 Serial/Batch Number
1	<u>Prostart</u> <u>Starter</u>	<u>MZ-4222</u>	<u>V</u>	<u>2</u>	<u>6A000054</u>
12 Status/Work NEWLY OHC					
13 Remarks SEE WORK ORDER / NEWLY OVERHAULED & CERTIFIED					
Limited Life parts must be accompanied by maintenance history including total time in service since new.					
14 ☐ New ☐ Newly Overhauled Certifies that the new or newly overhauled part(s) identified above, except as otherwise specified in block 13, was (were) manufactured in accordance with FAA approved design data and airworthiness. NOTE: In case of parts imported, the special requirements of the importing country have been met.			19 Return to Service in Accordance with FAR 43.9 Certifies that the work specified in block 13 (or attached) above was carried out in accordance with FAA Airworthiness Regulations and in respect to the work performed the part(s) is (are) approved for return to service.		
15 Signature		16 FAA Authorization No.		20 Authorized Signature	
				<u>James Schreiner</u>	
17 Name (Typed or Printed)		18 Date		21 Certificate Number	
<u>James Schreiner</u>				<u>MO6R900J</u>	
				22 Name (Typed or Printed)	
				<u>JAMES SCHREINER</u>	
				23 Date	
				<u>04-04-02</u>	

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
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Engine Logbook Entry
KENOSHA AERO, INC.
Kenosha, WI 53144

AIRCRAFT: 5813F

H.M. 2886.3

DATE: 8-19-02

Drained oil. Removed filter. Cut filter open. OK. Installed 8 qts. 15W50 ,CH48103 filter. Safetyed. Installed sticker. Ran A/C check for leaks. Washed engine. Took oil sample. Aired all tires

The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation regulations and was found airworthy for return to service.

Signed

Jack J. Ritter

for Kenosha Aero, Inc., Certificate No. KABR076A

Engine Logbook Entry
KENOSHA AERO, INC.
Kenosha, WI 53144

AIRCRAFT: 5813F

H.M. 2909.8

DATE: 1-8-03

Drained oil, removed filter. Cut filter open, check for metal OK. Installed 8 quarts 15W50 oil and CH48103 filter. Safetyed. Ran leak check, OK.

The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation regulations and was found airworthy for return to service.

Signed

Jack J. Ritter

for Kenosha Aero, Inc., Certificate No. KABR076A

				SUB-TOTALS this page
				TOTALS—Carry forward to next page

Date 4-1-03 Indicates 2713.7 hrs on HM

I certify this powerplant, ~~airframe~~ has been inspected according to a ~~100 hour~~ annual inspection and was determined to be in air-worthy condition. Total Time 2913.7

TTESM0H 1070.1 TTPSM0H 486.3

Compression Test 1, $\frac{79}{80}$ 2, $\frac{78}{80}$ 3, $\frac{75}{80}$ 4, $\frac{79}{80}$

No oil change. Replaced Brackett Air Filter.

Cleaned and gaped spark plugs. Checked Mag Timing.

Cleaned fuel strainer and reinstalled with new gaskets.

Test run and check for leaks.

A, D. conformity checked through card
No. 03-641 Service letters checked
for compliance through
Inspection check list & pertinent details of
repair on file at this agency under work
order No. 13010

The aircraft and/or component identified above
was repaired and inspected in accordance with
current Federal Aviation Regulations and was found
airworthy for return to service.
Signed Jack J. Miller for

Kenosha Aero, Inc., Certificate No. KABR 076A

TOTALS—Carry forward to next page

Engine Logbook Entry
KENOSHA AERO, INC
Kenosha, WI 53144

AIRCRAFT: 5813F

HM: 2041.9

DATE: 7-27-04

Oil change. Drained oil, removed filter, cut filter open, check for metal, OK. Installed 8 quarts 15W50 oil and CH48103 filter. Safetyed. Took oil sample. Aired up tires.

The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation regulations and was found airworthy for return to service.

Signed Jack J. Rutter for Kenosha Aero, Inc., Certificate No. KABR076A

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
2004				TOTALS brought forward from previous page
10-12-04	3027.6	3027.6		Oil change and filter, cut filter open to check for metal OK Added 8qt 15W50, Oil sample, checked CHT probe terminal. Test run and check for leaks. Installed new master switch and voltage Reg.
				The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Signed <u>Jack J. Ritter</u> for Kenosha Aero, Inc., Certificate No. KABR 076A
Date <u>5-4-05</u> Indicates <u>3048.1</u> hrs on <u>Tach</u> I certify this powerplant, airframe has been inspected according to a 90 <u>year</u> annual inspection and was determined to be in air-worthy condition. Total Time <u>3048.1</u>				A.D. conformity checked through card No. <u>05-8m</u> Service letters checked for compliance through <u> </u> Inspection check list & pertinent details of repair on file at this agency under work order No. <u>13566</u>
Compression test 1. ⁷⁸/₈₀ 2. ⁷⁸/₈₀ 3. ⁶⁶/₈₀ 4. ⁷⁸/₈₀ Oil change and filter, cut filter open to check for metal OK Added 8qt 15W50 oil and took sample. Stop drilled crack in left front baffle, tighten 2 & 4 cyl oil drain connectors. Cleaned and gaped spark plugs.				The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Signed <u>Jack J. Ritter</u> for Kenosha Aero, Inc., Certificate No. KABR 076A
7/17/05 Learning Mandatory Service Bulletin # 566 regarding crankshaft removal for IO 360-A3B6A manufactured rebuilt overhauled or repaired after March 1, 1999 does NOT apply. Engine for N58135 ser # L 24181-51A overhauled 4/30/92. <u>John Kyburz</u>				

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Engine Logbook Entry
KENOSHA AERO, INC
Kenosha, WI 53144

AIRCRAFT: N 5813F

HM: 3070.9

DATE: 8-5-05

Oil change. Drained oil, removed filter, cut filter open, check for metal, OK. Installed 8 quarts 15W50 oil and CH48103 filter. Safetied. Aired up tires. Siliconed Tanis plug. Took oil sample. W/O # 13641

The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation regulations and was found airworthy for return to service.

Signed Jack J. Rutter for Kenosha Aero, Inc., Certificate No. KABR076A

Engine Logbook Entry
KENOSHA AERO, INC
Kenosha, WI 53144

AIRCRAFT: N 5813F

HM: 3090.6

DATE: 11-3-05

Oil change and filter. Drained oil, removed filter, cut filter open, check for metal OK. Installed 8 quarts 15W50 oil and CH48103 filter. Washed engine, test run and check for leaks. Oil sample taken. Checked tires, battery, lights and brake fluid. W/O #13691

The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation regulations and was found airworthy for return to service.

Signed Jack J. Rutter for Kenosha Aero, Inc., Certificate No. KABR076A

3/20/06 Lycoming Service Bulletin # 56A does not apply as
engine overhaul last done 4/30/02

John K. Rutter 3-20-06

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
				TOTALS brought forward from previous page
Date <u>5-4-06</u> Indicates <u>3103.4</u> hrs on <u>Tach</u>	I certify this powerplant, airframe has been inspected according to a 100 hour annual inspection and was determined to be in airworthy condition. Total Time <u>3103.4</u>			A. D. conformity checked through card No. <u>06-8M</u> Service letters checked for compliance through <u>C</u> Inspection check list & pertinent details of repair on file at this agency under work order No. <u>13792</u>
TIPSMOH 1259.8 TIPSMOH 676. TIP 3103.4 Compression Test 1, ⁷⁸/₈₀ 2, ⁷⁸/₈₀ 3, ⁷⁶/₈₀ 4, ⁷⁹/₈₀ Oil change and filter, cut filter open to check for metal OK Added 8 qt 15W50 and took oil sample. Replaced 143 CHT probes with new. Replaced Brackett air filter element and all oil & fuel hoses in engine compartment, with Teflon and fire sleeve. Replaced #3 intake gasket and tighten all oil drain tube hose clamps. Washed engine, test run and check for leaks.				
The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Signed <u>[Signature]</u> TOR Kenosha Aero, Inc., Certificate No. KABR 076A				
Engine Logbook Entry KENOSHA AERO, INC Kenosha, WI 53144				
AIRCRAFT: N5813F		HM: 3126.2		DATE: 8-4-06
Oil change and filter. Cut filter open, check for metal OK. Installed 8 quarts 15W50 Shell oil and CH48103 filter. Took oil sample. Aired up tires and tightened oil pan bolts. Test run and check for leaks OK. W/O#13854				
The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation regulations and was found airworthy for return to service.				
Signed <u>[Signature]</u> for Kenosha Aero, Inc., Certificate No. KABR076A				
10/26/06	3148.9	Oil change Filter check → OK 8 qt 15/50 shell and new Filter installed		
SUB-TOTALS this page				
TOTALS—Carry forward to next page				

Date 5-4-07 Indicates 3163.8 hrs on Tach HM

I certify this powerplant. ~~it~~ has been inspected according to a ~~one~~ annual inspection and was determined to be in airworthy condition. Total Time 3163.8

TIESMOH 1320.2 TIPS MOH 736.4

Compression test / $\frac{76}{80}$ 2. $\frac{77}{80}$ 3. $\frac{76}{80}$ 4. $\frac{77}{80}$

% AD02-26-01 Fuel Injection Lines by inspection next due 5-08
3163.8 Removal. Oil change and filter, cut filter open to check for metal
Added 8 qt 15W50 oil and sample. Tighten all oil return line hoses
clamps. Replaced engine vacuum pump %N AH3215CC %N 43601
Replaced rocker cover gasket on #4 cyl.

The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service.
Signed Jack J. Rutter for

Kenosha Aero, Inc., Certificate No. KABR 076A

8/2/07 3186.3 Filter cut → clean

Oil: Filter change

8 qt 15/50 added.

Northwinds Aviation Bob Gehring

Both
vacuum
pumps
replaced
5-14-07

10-12-07 HM 3199.8 Cleaned and gaped spark plugs.
Found loose wire on CHT probe, tighten terminals.

The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service.
Signed Jack J. Rutter for

Kenosha Aero, Inc., Certificate No. KABR 076A

11/15/07 new battery RG35 AXC new master solenoid PN 60414105 TT 3202.4

4-15-08 changed oil + filter. Installed 8 qts Acetal 15W50 and new CH 48103-1
filter. cut + inspected old filter contents check o.k. Ground ran. no leaks

NOTE: Re PLACE Throttle + mixture Heim joints with new mooney PN 060051-105

KTS. Pac Pac AG 1 477781355

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
				TOTALS brought forward from previous page
Date <u>5-16-08</u> Indicates <u>3317.6</u> hrs on <u>Track</u>				A. D. conformity checked through card No. <u>08-07</u> Service letters checked
I certify this powerplant, engine has been inspected according to a 100 annual inspection and was determined to be in airworthy condition. Total Time <u>3317.6</u>				for compliance through <u> </u> Inspection check list & pertinent details of repair on file at this agency under work order No. <u>14252</u>
<u>TTE5M0H/370.0</u>				<u>Removed</u> <u>3317.6</u>
<u>%A102-26-01 Fuel Injection Lines by inspection next due 509</u>				
<u>%SB645 Mag impulse by Mag Ott. next due 3717.6</u>				
<u>Tighten all rocker cover screws. Installed Mag with new gasket, lock washers.</u>				
<u>Compression test 1.78 2.77 3.72 4.79</u>				
<u>1.80 2.80 3.80 4.80</u>				
<u>Washed engine, let run and check for leaks.</u>				
<u>Rebuilt mag installed →</u>				The aircraft and/or component identified above was repaired and inspected by <u> </u> with current Federal Aviation Regulations was found airworthy for return to service. Signed <u> </u> for <u> </u> Kenosha Aero, Inc., Certificate No. KABR 076A
<u>Sept 12, 2008</u>	<u>4 new spark plugs installed - Lower</u>			
	<u>3242.0</u>			<u>Removed spark plugs, clean and gaps.</u>
<u>Starter was replaced</u>	<u>5252.6</u>			<u>Hr.</u>

MAINTENANCE RELEASE

UNIT NAME Starter SERIAL NO. 6A000004

PART NO. M2 4222 MFG.: Prestolite

☐ OVERHAUL ☒ REPAIRED ☒ TESTED ☐ INSPECTED ☐ FUNCTIONAL TESTED

The Aircraft component identified above was repaired and/or 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 the repair are on file at this repair station under work order # 9201

OWNER: Northwinds Aviation DATE: 4-15-09 SIGNED FOR: Robert C. Bejn

R L B ACCESSORY SERVICE

971 Babbitt Avenue • Addison, Illinois 60101-1221

FAA Approved repair station # KB2R946K



SPARK PLUG
RHM38E
GAP .016" - .021"

FAA-PMU
21-40-06

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED SIGNATURE & CERTIFICATE NO. OF PERSON
2009				TOTALS brought forward from previous page
Date 5-4-09 Indicates 3255.8 hrs on Tach				A. D. conformity checked through card No. 09-09 Service letters checked for compliance through inspection check list & pertinent details of repair on file at this agency under work order No. 111458
I certify this powerplant, engine has been inspected according to a 30 day annual inspection and was determined to be in air-worthy condition. Total Time 3255.8				(SEE OTHER SIDE)
TTESMOH 1408.2 TIPS MOH 825.4 NO Oil change at this time.				
Compression test 1. ⁷³ / ₈₀ 2. ⁷⁵ / ₈₀ 3. ⁷³ / ₈₀ 4. ⁷⁰ / ₈₀				
W/AD 09-02-03 Fuel Injector Servo Plug and gasket by PTK & L "G" on plug, torque, gasket, safetied, Replaced Bracket Air filter element, Press & Paint prop back, Tie off FKS line in engine compartment, Installed wide area washer on prop control rod end, Adjusted ground strap in engine compartment, Washed engine, Test run and check for leaks, Cleaned fuel injection nozzles.				
				The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Signed <u>Jack J. Ritter</u> for Kenosha Aero, Inc., Certificate No. KABR 076A
10-1-09				3273.1 Oil change and filter, cut filter open to check for metal OK Added 8qt 15W60 oil. Oil sample taken. Washed engine, Test run, check for leaks OK.
				The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Signed <u>Jack J. Ritter</u> for Kenosha Aero, Inc., Certificate No. KABR 076A
SUB-TOTALS this page				
TOTALS—Carry forward to next page				

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
TOTALS brought forward from previous page				
Date <u>5-1-10</u> Indicates <u>3300.9</u> hrs on <u>Tach</u>				A. D. conformity checked through card No. <u>10-8</u> Service letters checked for compliance through <u>C</u>
I certify this powerplant, airframe has been inspected according to a 100 hour annual inspection and was determined to be in airworthy condition. Total Time <u>3300.9</u>				Inspection check list & pertinent details of repair on file at this agency under work order No. <u>14652</u>
TIESMOH 1453.3 / 72 2 71 3 69 4 69 Compression test 1, 80 2, 80 3, 80 4, 80 Oil change and filter, cut filter open to check for metal etc Added 8 qt 15W50. Oil sample. Tighten all rocker cover screws. WAD08-14-07 Fuel Injection Lines by inspection next due 3400.9/04/Removed. Cleaned and gaped spark plugs. Washed engine, test run and check for leaks				
The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Signed <u>[Signature]</u> for Kenosha Aero, Inc., Certificate No. KABR 076A				
10-22-10 Hobbs 3332.8				Replaced C.H.T. Probe P/N 3080-38 and Replace # 4 Cyl. Tannis Probe P/N TAS 100 Ran A/c checked good
The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Signed <u>[Signature]</u> for Kenosha Aero, Inc., Certificate No. KABR 076A				
Item number <u>880010-503</u> Batch number <u>3026968-192525</u> Item name <u>PROBE, CHT, 3080-38</u> Expiry date _____ Picking location <u>250605</u>				
SUB-TOTALS this page				
TOTALS—Carry forward to next page				

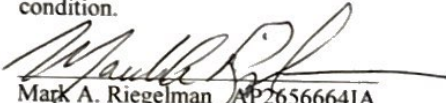
DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
TOTALS brought forward from previous page				
12/15/2010		2403.7 hrs.		Removed cylinders due to high oil consumption. Sent cylinders to Bolduc Aviation to have reconditioned as needed. Had oil cooler flushed and tested by Bolduc Aviation. Reinstalled cylinders after repair by Bolduc Av. with new rings, seals, gaskets and checked tappet dry clearance. See Bolduc Av. w.o. 24408 & w.o. 24464 for work done. Reinstalled items that were removed to remove cylinders. Installed new piece of air duct from heat muff to cabin heat box. Changed oil & oil filter, 8 qts Phillips 20W50 mineral oil. Run up engine C.H. OK. Cooled up engine. Robert J. Gehring AI1444441
Date <u>5-11</u>	Indicates <u>3348.2</u> hrs on <u>Toch</u>	A.D. conformity checked through card No. <u>11-11</u> Service letters checked for compliance through <u> </u> Inspection check list & pertinent details of repair on file at this agency under work order No. <u>14841</u>		
I certify this powerplant, engine has been inspected according to a 100 hour annual inspection and was determined to be in airworthy condition. Total Time <u>3348.2</u> Oil change and filter, cut filter open to check for metal, slight, added 8 qt 20W50 type M. Oil sample. Replaced left valve screws. Compressor test 1. ⁷⁵/₈₀ 2. ⁷²/₈₀ 3. ⁷⁸/₈₀ 4. ⁷⁹/₈₀ Cleaned and gaped spark plugs, replace Brackett air filter, Press and paint prop. Tighten and cleaned lower oil cooler line. Wash engine, Test run and check for leaks.				
The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Signed <u>Robert J. Gehring</u> for				
SUB-POTWIS Assoc., Certificate No. KABR 076A				
TOTALS—Carry forward to next page				

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
				TOTALS brought forward from previous page

N5813F

DATE: JUNE 1, 2012 TACH: 3397 ENG TT: 3397 TSO:1549

Completed annual/100 hr inspection this date IAW FAR 43 Appendix D and Mooney inspection checklist. Drained and serviced engine oil with 8 qts Phillips 20W50XC - added cam guard as per owners request. Took oil sample mid drain and sent in for spectro analysis. Replaced oil filter with Champion CH48103 and cut open old filter and inspected for contaminants - none noted. Compression test as follows: (1) 78/80 (2) 78/80 (3) 78/80 (4) 73/80 Bore scoped cylinders. Cleaned, gapped, tested and rotated spark plugs - installed with new copper gaskets. Verified mag timing. Complied with AD 2011-26-04 by inspection and AD 2012-03-06C (DNA). I certify that this aircraft engine has been inspected IAW annual/100 hr inspection and has been determined to be in airworthy condition.

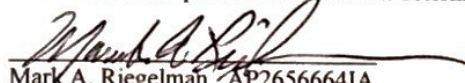

Mark A. Riegelman AP26566641A

10/1/12 3416.9 Starter Rebuilt and installed
North Winds aviation -

N5813F

DATE: JUNE 22, 2013 TACH: 3436 ENG TT: 3436 TSO: 1588

Completed annual/100 hr inspection this date IAW FAR 43 Appendix D and Mooney inspection checklist. Drained oil and serviced with 7 qts Phillips 20W50XC, added ASL Camguard as per owners request. Took oil sample mid drain and sent out for spectro analysis. Replaced filter with Ch48103-1, cut old filter and inspected for contaminants - okay. Compression tests as follows: 1) 76/80 2) 78/80 3) 77/80 4) 76/80 Bore scoped cylinders - no anomalies noted. Cleaned, gapped, tested and rotated spark plugs. Adjusted magneto timing to 25 degrees BTDC. Replaced air filter and inspected exhaust system - lubed slip joints with mouse milk. **Magneto/impulse coupling due at tach time 3717.6.** Complied with AD 08-14-07 (fuel injector lines). AD 2012-19-01 DNA as per engine serial number. I certify that this engine has been inspected IAW annual/100 hr inspection and has been determined to be in airworthy condition.


Mark A. Riegelman AP26566641A

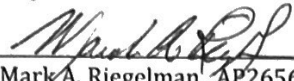
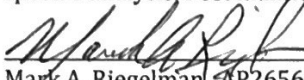
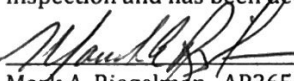
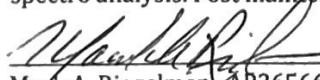
N5813F DATE: NOV. 5, 2013 TACH/HOBBS: 3449.3

Drained engine oil and serviced with 7 qts of Phillips 20W50XC. Added ASL Camguard as per owners request. Replaced filter with Champion CH48103. Cut open old filter and inspected for contaminants, none noted. Took oil sample mid drain and sent in for spectro analysis. Post maintenance leak check okay.


Mark A. Riegelman AP26566641A

SUB-TOTALS this page

TOTALS—Carry forward to next page

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
TOTALS brought forward from previous page				
N5813F	DATE: JUNE 14, 2014	TACH: 3456.6	ENG TT: 3456.6	TSO: 1608.6
Completed annual/100 hr this date IAW FAR 43 Appendix D and Mooney inspection checklist. Drained oil and serviced with 7 qts. Phillips 20W50XC, added ASL Camguard as per owners request. Took oil sample mid drain and sent out for spectro analysis. Replaced filter with Ch48103 and cut old filter and inspected - okay. Compression tests as follows: 1) 76/80 2) 75/80 3) 73/80 4) 75/80 Bore scoped cylinders with no anomalies noted. Cleaned, check gap, tested and installed spark plugs with new copper gaskets. Checked mag timing - no adjustments made. Magneto impulse coupling due at tach time 3717.6. Complied with AD 08-14-07 (fuel injector lines). AD's current through AD 2012-19-01 (DNA as per eng s/n). I certify that this engine has been inspected IAW annual/100 hr inspection and has been determined to be in airworthy condition.  Mark A. Riegelman AP26566641A				
N5813F	DATE: OCT. 22, 2014	TACH: 3473.7		
Drained oil and serviced with 7 qts. Phillips 20W50XC - added 12 oz. ASL Camguard as per owners request. Replaced filter with CH48103 - cut old filter and inspected - okay. Took oil sample mid drain and sent in for spectro analysis. Post maintenance leak check okay.  Mark A. Riegelman AP26566641A				
N5813F	DATE: JUNE 06, 2015	TACH: 3480.5	ENG TT: 3480.5	TSO: 1632.5
Completed annual/100 hr this date IAW FAR 43 Appendix D and Mooney inspection checklist. Drained oil and serviced with 7 qts. Phillips 20W50XC, added ASL Camguard as per owners request. Took oil sample mid drain and sent out for spectro analysis. Replaced filter with Ch48103 and cut old filter and inspected - okay. Replaced induction air filter element with BA-6205. Compression tests as follows: 1) 70/80 2) 74/80 3) 78/80 4) 78/80 Bore scoped cylinders with no anomalies noted. Cleaned, gapped, tested and installed spark plugs with new copper gaskets. Checked mag timing - no adjustments made. Magneto impulse coupling due at tach time 3717.6. Complied with AD 08-14-07 (fuel injector lines). AD's current through AD 2012-19-01 (DNA as per eng s/n). I certify that this engine has been inspected IAW annual/100 hr inspection and has been determined to be in airworthy condition.  Mark A. Riegelman AP26566641A				
N5813F	DATE: SEPT. 25, 2015	TACH: 3489.8		
Drained oil and serviced with 7 qts. Phillips 20W50XC - added 12 oz. ASL Camguard as per owners request. Replaced filter with CH48103 - cut old filter and inspected - okay. Took oil sample mid drain and sent in for spectro analysis. Post maintenance leak check okay.  Mark A. Riegelman AP26566641A				

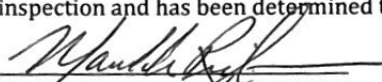
N5813F DATE: JUNE 15, 2016 TACH: 3505.4 ENG TT: 3505.4 TSO: 1657.4

Page No. _____

DATE

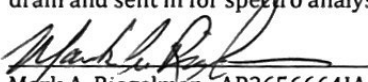
Completed annual/100 hr this date IAW FAR 43 Appendix D and Mooney inspection checklist. Drained oil and serviced with 7 qts. Phillips 20W50XC, added ASL Camguard as per owners request. Took oil sample mid drain and sent out for spectro analysis. Replaced filter with Ch48103 and cut old filter and inspected - okay. Compression tests as follows: 1) 73/80 2) 76/80 3) 72/80 4) 76/80 Bore scoped cylinders with no anomalies noted. Cleaned, gapped, tested and installed spark plugs with new copper gaskets. Checked mag timing - no adjustments made. **Magneto impulse coupling due at tach time 3717.6.** Complied with AD 08-14-07 (fuel injector lines). AD's current through AD 2012-19-01 (DNA as per eng s/n). I certify that this engine has been inspected IAW annual/100 hr inspection and has been determined to be in airworthy condition.

RMING WORK


Mark A. Riegelman AP2656664IA

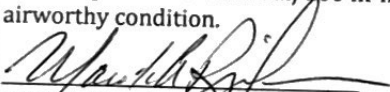
N5813F DATE: SEPT. 12, 2016 TACH: 3515.3 ENG TSO: 1667

Drained oil on a warm engine and service with 7 qts. Phillips 20W50XC. Added 11.2 ounces of ASL Camguard as per owners request. Replaced filter with CH48103-1. Cut old filter and inspected - okay. Took oil sample mid drain and sent in for spectro analysis. Post maintenance leak check okay.


Mark A. Riegelman AP2656664IA

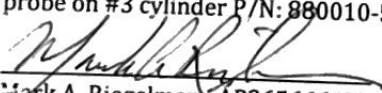
N5813F DATE: JUNE 1, 2017 TACH: 3524.4 ENG TT: 3514.5 TSO: 1666.5

Completed annual/100 hr inspection this date IAW FAR 43 Appendix D and Mooney inspection checklist. Drained oil and serviced with 7 qts. Phillips 20W50XC, added ASL Camguard as per owners request. Took oil sample mid drain and sent out for spectro analysis. Replaced filter with Ch48103 and cut old filter and inspected - okay. Compression tests as follows: 1) 77/80 2) 78/80 3) 77/80 4) 76/80 Bore scoped cylinders with no anomalies noted. Cleaned, gapped, tested and installed spark plugs with new copper gaskets. Checked mag timing - no adjustments made. **Magneto impulse coupling due at tach time 3717.6.** Complied with AD 08-14-07 (fuel injector lines) by replacing adel clamps at #2 & #3 cylinder pushrod tubes. Replaced alternator with P/N: ALY-8520, S/N: R2119336. AD's current through AD 2012-19-01 (DNA as per eng s/n). I certify that this engine has been inspected IAW annual/100 hr inspection and has been determined to be in airworthy condition.


Mark A. Riegelman AP2656664IA

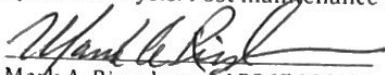
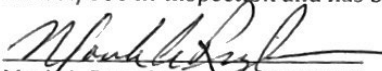
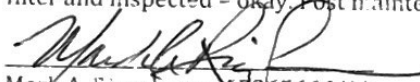
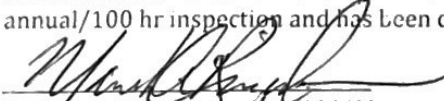
N5813F DATE: AUG. 24, 2017 HOBBS: 3527.5

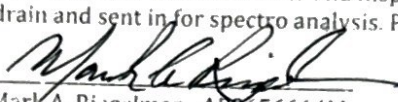
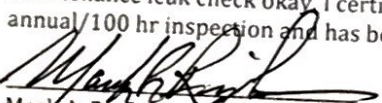
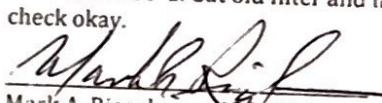
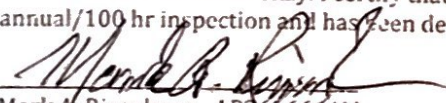
Replaced exhaust tail pipe with P/N: A630119-501 from Aerospace Welding - installed with new hardware/spring kit. Also replaced CH1 temp probe on #3 cylinder P/N: 880010-503. Post maintenance run up normal.


Mark A. Riegelman AP2656664IA

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DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
				N5813F DATE: OCT. 4, 2017 TACH: 3515.4 Drained oil and serviced with 7 qts. Phillips 20W50XC - added 11.5 oz. ASL Camguard as per owners request. Replaced filter with CH48103 - cut old filter and inspected - okay. Took oil sample mid drain and sent in for spectro analysis. Post maintenance leak check okay.  Mark A. Riegelman AP2656664IA
				N5813F DATE: JUNE 2, 2018 TACH: 3549.2 ENG TT: 3549.2 TSO: 1701.2 Completed annual/100 hr inspection this date IAW FAR 43 Appendix D and Mooney inspection checklist. Drained oil and serviced with 7 qts. Phillips 20W50XC, added ASL Camguard as per owners request. Took oil sample mid drain and sent out for spectro analysis. Replaced filter with Ch48103 and cut old filter and inspected - okay. Compression tests as follows: 1) 78/80 2) 79/80 3) 79/80 4) 79/80 Bore scoped cylinders with no anomalies noted. Cleaned, gapped, tested and installed spark plugs with new copper gaskets. Checked mag timing - no adjustments made. Magneto impulse coupling due at tach time 3717.6. Complied with AD 08-14-07 (fuel injector lines) by visual inspection. AD's current through AD 2017-16-11 (DNA as per eng s/n). I certify that this engine has been inspected IAW annual/100 hr inspection and has been determined to be in airworthy condition.  Mark A. Riegelman AP2656664IA
				N5813F DATE: OCT. 18, 2018 TACH: 3557.4 Drained oil and serviced with 7 qts. Phillips 20W50XC - added 11.5 oz. ASL Camguard as per owners request. Replaced filter with CH48103 - cut old filter and inspected - okay. Post maintenance leak check okay.  Mark A. Riegelman AP2656664IA
				N5813F DATE: June 26, 2019 TACH: 3569.5 ENG TT: 3569.5 TSO: 1721.7 Completed annual/100 hr inspection this date IAW FAR 43 Appendix D and Mooney inspection checklist. Drained oil and serviced with 7 qts. Phillips 20W50XC, added ASL Camguard as per owners request. Took oil sample mid drain and sent out for spectro analysis. Replaced filter with Ch48103 and cut old filter and inspected - okay. Compression tests as follows: 1) 79/80 2) 76/80 3) 78/80 4) 79/80 Bore scoped cylinders with no anomalies noted. Cleaned, gapped, tested and installed spark plugs with new copper gaskets. Checked mag timing - no adjustments made. Replaced induction air filter element with BA-6205 Magneto impulse coupling due at tach time 3717.6. Complied with AD 08-14-07 (fuel injector lines) and AD 95-26-16R1 (Alternate air door) by visual inspection. AD's current through AD 2017-16-11 (DNA as per eng s/n). Sent out Druck oil pressure transducer P/N: PDCR 820 for inspection/repair and reinstalled back on aircraft. Post maintenance leak check okay. I certify that this engine has been inspected IAW annual/100 hr inspection and has been determined to be in airworthy condition.  Mark A. Riegelman AP2656664IA

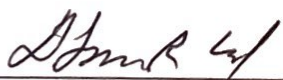
DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
TOTALS brought forward from previous page				
N5813F	DATE: SEPT.. 20, 2019	TACH: <u>3580.3</u>	ENG TSO: _____	
Drained oil on a warm engine and service with 7 qts. Phillips 20W50XC. Added 11.5 ounces of ASL Camguard as per owners request. Replaced filter with CH48103-1. Cut old filter and inspected - okay. Took oil sample mid drain and sent in for spectro analysis. Post maintenance leak check okay.  Mark A. Riegelman AP2656664IA				
N5813F	DATE: JUNE 3, 2020	HOBBS: 3584.3	ENG TT: 3584.3	TSO: 1736.5
Completed annual/100 hr inspection this date IAW FAR 43 Appendix D and Mooney inspection checklist. Drained oil and serviced with 7 qts. Phillips 20W50XC, added 11.6 ounces of ASL Camguard as per owners request. Replaced filter with CH48103-1 and cut old filter and inspected - okay. Compression tests as follows: 1) 76/80 2) 75/80 3) 77/80 4) 76/80. Bore scoped cylinders with no anomalies noted. Cleaned, gapped, tested and installed spark plugs with new copper gaskets. Checked mag timing - no adjustments made. Magneto impulse coupling due at tach time 3717.6. Complied with AD 2015-19-07 (fuel injector lines) and AD 95-26-16R1 (Alternate air door) by visual inspection. AD's current through AD 2017-16-11 (DNA as per eng s/n). Post maintenance leak check okay. I certify that this engine has been inspected IAW annual/100 hr inspection and has been determined to be in airworthy condition.  Mark A. Riegelman AP2656664IA				
N5813F	DATE: SEPT. 17, 2020	TACH: 3594.7		
Drained oil on a warm engine and service with 7 qts. Phillips 20W50XC. Added 11.5 ounces of ASL Camguard as per owners request. Replaced filter with CH48103-1. Cut old filter and inspected - okay. Post maintenance leak check okay.  Mark A. Riegelman AP2656664IA				
N5813F	DATE: JUNE 16, 2021	HOBBS: 3584.3	ENG TT: 3602.2	TSO: 1754.4
Completed annual/100 hr inspection this date IAW FAR 43 Appendix D and Mooney inspection checklist. Drained oil and serviced with 7 qts. Phillips 20W50XC, added 11.6 ounces of ASL Camguard as per owners request. Replaced filter with CH48103-1 and cut old filter and inspected - okay. Compression tests as follows: 1) 75/80 2) 75/80 3) 78/80 4) 76/80. Bore scoped cylinders with no anomalies noted. Cleaned, gapped, tested and installed spark plugs with new copper gaskets. Checked mag timing - no adjustments made. Magneto impulse coupling due at tach time 3717.6. Complied with AD 2015-19-07 (fuel injector lines) and AD 95-26-16R1 (Alternate air door) by visual inspection. AD's current through AD 2017-16-11 (DNA as per eng s/n). Post maintenance leak check okay. I certify that this engine has been inspected IAW annual/100 hr inspection and has been determined to be in airworthy condition.  Mark A. Riegelman AP2656664IA				

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
	TACH:			TOTALS brought forward from previous page
2022 3-21	3645.3			CHANGED OIL AND FILTER, INSTALLED NEW 8 QT OF XC20-50 OIL AND NEW OIL FILTER CH48103-1. WASHED ENGINE GROUND RAN ENGINE ALL SYSTEMS CHECKED SATISFACTORY NO OIL LEAKS NOTICED AT THIS TIME. CUT OIL FILTER OPEN NO FOREIGN MATERIAL NOTICED AT THIS TIME. INSPECTED SCOPE OF WORK FOUND IN AIRWORTHY CONDITIONS I RETURN THIS ENGINE BACK TO SERVICE. Brendy Kent Valle A&P 3130938

Reliant Aircraft Services LLC 14209 SW Tewkesbury Dr Portland, OR 97224 503-799-9834	Reliant Aircraft Services LLC 	Logbook Insert Engine
Model: Mooney M20 J	Airframe	Date: 06/24/22
Reg #: N5813F N5813F	SERIAL # 24-1563	Tach: 3682.3 Hobbs
ETT 3504.2 TSMO 1852.4	ENGINE SERIAL #L-24181-51A	MODEL # Lycoming IO-360-A3B6D

Completed an engine inspection with reference to Mooney annual inspection guide form # 0100 (B) dated Aug. 2018 and FAR 43 App. D. Checked cylinder compressions #1 72psi, #2 76psi, #3 71psi, #4 71psi, over 80 PSI. Drained oil and cut open filter. Filter appeared normal at this time. Serviced with 7Qts of Phillips SAE 20W50 and Cam guard. Installed new Champion Ch-48-103-1 filter. Removed, inspected, cleaned, tested and re-installed sparkplugs. Replaced all fuel injector nozzles with new Precision Airmotive nozzle's part # 2524864-2. Replaced induction air filter with new Bracket element BA-6205. Inspected exhaust heat exchanger for carbon monoxide leakage. No defects noted. Checked all engine controls for proper travel and lubricated. Ground run and leak checks performed with no discrepancies noted. I certify this aircraft engine has been inspected IAW an annual inspection and was determined to be in an airworthy condition as of this date.

DeLynn R Elrod



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DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
TOTALS brought forward from previous page				

Reliant Aircraft Services LLC 14209 SW Tewkesbury Dr Portland, OR 97224 503-799-9834	Reliant Aircraft Services LLC 	Logbook Insert Engine
Model: Mooney M20 J	Airframe	Date: 10/27/22
Reg #: N5813F	SERIAL # 24-1563	Tach: 3721.4 Hobbs
ETT 3543.3 TSMO 1891.5	ENGINE SERIAL #L-24181-51A	MODEL # Lycoming IO-360-A3B6D

At the request of the owner, changed oil and filter. Cut open filter and inspected for metal. Filter appears normal with no excessive metal found. Pulled Blackstone oil sample. Serviced with 7 QTS of Phillips 20W50 oil and new Champion CH48103-1 filter. Removed and reinstalled magneto for 500 hr. inspection. Reinstalled magneto with new gasket and timed to the setting on the data plate. Ground operated and leak checks performed with no discrepancies noted. This engine is returned to service with respect to the work performed this date.

DeLynn R Elrod

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Magneto Pn 10-382555-11R Sn.H100219
Performed 500 hour inspection per TCM
X42003 manual section 6.2.3 2-9.
Replaced points, distributor block, drive end bearing,
oil slinger and bench checked mag,
all checks good.

William Davidge A&P3558033

Oct. 24, 2022

Reliant Aircraft Services LLC 14209 SW Tewkesbury Dr Portland, OR 97224 503-799-9834	Reliant Aircraft Services LLC 	Logbook Insert Engine
Model: Mooney M20 J	Airframe	Date: 06/29/23
Reg #: N5813F	SERIAL # 24-1563	Tach: 3741.4 Hobbs
ETT 3563.3 TSMO 1911.5	ENGINE SERIAL #L-24181-51A	MODEL # Lycoming IO-360-A3B6D

Completed an engine inspection with reference to Mooney annual inspection guide form # 0100 (B) dated Aug. 2018 and FAR 43 App. D. Checked cylinder compressions #1 72psi, #2 72psi, #3 70psi, #4 72psi, over 80 PSI. Drained oil and cut open filter. Filter appeared normal at this time. Serviced with 8 Qts of Phillips SAE 20W50 and Cam guard. Installed new Champion Ch-48-103-1 filter. Removed, inspected, cleaned, tested and re-installed sparkplugs. R&R all fuel injector nozzles for cleaning. Replaced induction air filter with new Bracket element BA-6205. Inspected exhaust heat exchanger after new muffler installed, no defects noted. Checked all engine controls for proper travel and lubricated. Replaced rocker cover gaskets and intake gaskets on #1, #3, #4. Ground run and leak checks performed with no discrepancies noted, I certify this aircraft engine has been inspected IAW an annual inspection and was determined to be in an airworthy condition as of this date.

DeLynn R Elrod

A&P P3508347 IA

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DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
				TOTALS brought forward from previous page
9/14/21	2794.6			Changed oil & filter this date.
				Serviced with 8 qts of Phillips 20W50
				& new Tempest AA 48103-2 filter.
				DeLynn R Elrod A&P 3508347

Reliant Aircraft Services LLC 14209 SW Tewkesbury Dr Portland, OR 97224 503-799-9834		Reliant Aircraft Services LLC 		Logbook Insert Engine
Model: Mooney M20 J		Airframe		Date: 05/02/2024
Reg #: N5813F	ETT 3656 TSMO 2004.2	SERIAL # 24-1563	ENGINE SERIAL #L-24181-51A	Tach: 3834.1 Hobbs
				MODEL # Lycoming IO-360-A3B6D

At the request of the owner, completed an engine inspection with reference to Mooney annual inspection guide form # 0100 (B) dated Aug. 2018 and FAR 43 App. D. Checked cylinder compressions #1 77psi, #2 76psi, #3 73psi, #4 73psi, over 80 PSI. Drained oil and cut open filter. Filter appeared normal at this time. Serviced with 8 Qts of Phillips SAE 20W50. Installed new Tempest AA-48-103-2 filter. Removed, inspected, cleaned, tested and re-installed sparkplugs. R&R all fuel injector nozzles for cleaning. Replaced induction air filter with new Bracket element BA-6205. Inspected exhaust heat exchanger, no defects noted. Checked all engine controls for proper travel and lubricated. Replaced rocker cover gasket on #3 cylinder. Replaced intake gasket on #2 cylinder. Ground run and leak checks performed with no discrepancies noted. I certify this aircraft engine has been inspected IAW an annual inspection and was determined to be in airworthy condition as of this date.

DeLynn R Elrod

A&P P3508347 IA

Reliant Aircraft Services LLC 14209 SW Tewkesbury Dr Portland, OR 97224 503-799-9834		Reliant Aircraft Services LLC 		Logbook Insert Engine
Model: Mooney M20 J		Airframe		Date: 2024 <i>del</i> 10/11/2023
Reg #: N5813F	ETT	SERIAL # 24-1563	ENGINE SERIAL #L-24181-51A	Tach: 3877.3 Hobbs
				MODEL # Lycoming IO-360-A3B6D

At the request of the owner, changed oil and filter this date. Serviced with 8 Qts of Phillips SAE 20W50 and Cam guard. Installed new Champion Ch-48-103-1 filter. Old filter cut open and inspected. Appears normal.

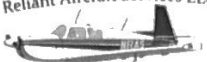
DeLynn R Elrod

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				TOTALS brought forward from previous page

Reliant Aircraft Services LLC 14209 SW Tewkesbury Dr Portland, OR 97224 503-799-9834	Reliant Aircraft Services LLC 	Logbook Insert Airframe
Model: Mooney M20 J	Airframe	Date: 11/07/2024
Reg #: N5813F	SN# 24-1563	ACTT 3893.0 Hobbs
Tach 3893.0	Engine Hobbs: 3893.0	Flight time Hobbs:

At the request of the owner installed 4 new engine mounts, lord part number J-9613-40. Reinstalled cowling and checked fit of spinner. This airframe is returned to service in an airworthy condition with respect to the work performed on this date.

DeLynn R Elrod  A&P3508347 IA

Reliant Aircraft Services LLC 14209 SW Tewkesbury Dr Portland, OR 97224 503-799-9834	Reliant Aircraft Services LLC 	Logbook Insert Engine
Model: Mooney M20 J	Airframe	Date: 06/17/2025
Reg #: N5813F	SERIAL # 24-1563	Tach: 3921.0
ETT 3742.9 TSMO 2091.1	ENGINE SERIAL #L-24181-51A	MODEL # Lycoming IO-360-A3B6D

At the request of the owner, completed an engine inspection with reference to Mooney annual inspection guide form # 0100 (B) dated Aug. 2018 and FAR 43 App. D. Checked cylinder compressions #1 72psi, #2 76psi, #3 74psi, #4 77psi, over 80 PSI. Drained oil and cut open filter. Filter appeared normal at this time. Serviced with 8 Qts of Phillips SAE 20W50. Installed new Tempest AA-48-103-2 filter. Removed, inspected, cleaned, tested, replaced top plugs with new and re-installed sparkplugs. R&R all fuel injector nozzles for cleaning. Replaced induction air filter with new Bracket element BA-6205. Inspected exhaust heat exchanger, no defects noted. Checked all engine controls for proper travel and lubricated. Replaced rocker cover gasket on #3 cylinder. Replaced intake gasket on #2 cylinder. Replaced inboard exhaust stud and installed helicoil on inboard stud #3 cylinder. Ground run and leak checks performed with no discrepancies noted. I certify this aircraft engine has been inspected IAW an annual inspection and was determined to be in an airworthy condition as of this date.

DeLynn R Elrod  A&P P3508347 IA

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