



*Started 4/82
See Original Logs
for prior entries*

ENGINE MAINTENANCE RECORDS

Log No. 2

Aircraft Registration No. N201RZ

Engine Manufacturer LYCOMING

Model I0-360-A3B6D

Serial No. L-17850-51AC

Date installed on aircraft 9/77

Time Between Overhauls (TBO) 1600 Hours

EXTENDED TO 1800 BY SERVICE INSTRUCTION 1009AG

If used on multi-engine aircraft:

- | | |
|--------------------------------|-------------------------------|
| <input type="checkbox"/> Right | <input type="checkbox"/> Left |
| <input type="checkbox"/> Front | <input type="checkbox"/> 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				
THIS LOG STARTED APRIL 20, 1982 ON N201RZ S/N 24-0327				
ENG. IO-360-A3B6D S/N L-17850-51AC WITH A TACH TIME OF				
346.18 AND A TOTAL TIME OF 1346.18. FOR ALL PREVIOUS ENTRIES				
SEE ENGINE LOG BOOK NUMBER ONE.				
4/21/82	1346.1	1346.1	346.1	HENRY WEBER AIRCRAFT DISTRIBUTORS, INC. LANCASTER AIRPORT, R. D. 3 LITITZ, PENNA. DATE <u>4/21/82</u> Details of this work order are on file under No. # <u>5697</u> Inspector <u>Debbie K. Shultz</u> AIRCRAFT <u>1346.1</u> & ENGINE <u>1346.1</u> TACH <u>346.1</u> I CERTIFY THAT THIS ENGINE ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A ... ANNUAL INSPECTION AND DETERMINED TO BE IN AN AIRWORTHY CONDITION. REP. STATION # <u>110-2</u>
DRAINED ENGINE OIL & CHANGED FILTER.				
SERVICED ENGINE WITH 8 QTS AEROSHELL				
80W OIL. INSPECTED & LUBED ENGINE				
CONTROLS. (CLEANED), GAPPED, ROTATED				
SPARK PLUGS. REPLACED #1 INTAKE				
GASKET. ENGINE COMPRESSIONS:				
#1 <u>72</u>	#2 <u>76</u>	#3 <u>74</u>	#4 <u>74</u>	
<u>80</u>	<u>80</u>	<u>80</u>	<u>80</u>	
CHECK ALL ADS, ENGINE RUN-UP GOOD				
END ENTRY				
5/17/82	1352	1352	352	INSTALLED 8 NEW RHM 38E SEADY PLUGS. Details of this work order are on file under No. <u>5743</u> Inspector <u>David Wagner</u> (RS110-1) HENRY WEBER AIRCRAFT DIST. INC. LANCASTER AIRPORT RD #3 LITITZ, PA. 17543
2 AUG 82	1391.1	1391.1	391.9	CHANGED OIL AND FILTER, SERVICED WITH AEROSHELL. DATE <u>2 AUG 82</u> T/T IN SERVICE <u>1391.1</u> ... Signature <u>D.P.C. Moore</u> Repair Station 109-2 PENNSYLVANIA AVIATION, INC. BLUE BELL, PA 19422 REPAIR STATION 109-2

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							
10/1/82	Tach	426.1		Change oil & filter 8qt AS15W50 Momonu Leon CR5110-2 End			
10/1/82	Tach	426.1		Removed grounding strap from magnets switch in accordance with Mooney S.I. No. 120-59 In 2 Bruden			
4/15/83	1444.3	1444.3	444.3	<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">HENRY WEBER AIRCRAFT DISTRIBUTORS, INC. LANCASTER AIRPORT, R. D. 3 LITIZ, PENNA.</p> <p>DATE <u>4/15/83</u> Details of this work order are on file under No. <u>6235</u> Inspector <u>M. P. Ganev</u></p> <p>AIRCRAFT <u>1444.3</u> & ENGINE <u>1444.3</u> TACH <u>444.3</u></p> <p>I CERTIFY THAT THIS AIRCRAFT ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH (AN) 200 100 ANNUAL INSPECTION AND DETERMINED TO BE IN AN AIRWORTHY CONDITION. REP. STATION # <u>110-2</u></p> </div>			
DRAINED ENGINE OIL & CHANGED FILTER							
SERVICED ENGINE WITH 8 QTS AEROSHELL 15W-50 OIL. INSPECTED & LUBED CONTROLS							
CLEANED SPARK PLUGS, REPLACED #2							
ROCKER BOX GASKET, TIGHTENED TACH							
CABLE. ENGINE COMPRESSIONS							
#1	75/80	#2	74/80	#3	78/80	#4	73/80
END ENTRY							
8/19/83	TACH	497.6		INSTALLED STANDBY VACUUM SYSTEM PER STC SE1779NM SEE FORM 337 THIS DATE. Michael P. Ganev A+P# 586257			
SUB-TOTALS							

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				TOTALS brought forward from previous page
24 AUG 83	1500.73	1500.73	500.73	changed oil and filter, serviced with 8QT Aeroshell 15W-50. DATE <u>24 AUG 83</u> T/T IN SERVICE <u>1500.73</u> <i>D. J. Moore</i> Signature <u>Repair Station 109-2</u> <u>Airframe-Class 3</u> PENNSYLVANIA AVIATION, INC. BLUE BELL, PA 19422 REPAIR STATION 109-2
12-20-83	1547.8	1547.8	547.8	MAINTENANCE RELEASE The aircraft or component identified above was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. Inspector <i>Thomas W. Lewis</i> Certified Repair Station No. 110-2 W.O.# 6598
				DRAINED ENGINE OIL & CHANGED FILTER. SERVICED ENGINE WITH 8 QTS AEROSHELL 15W-50. $\frac{C}{W}$ AD 78-09-07B IMPULSE COUPLING INSPECTION. NEXT INSPECTION DUE AT TACH 1047.8 OR TOTAL TIME 2047.8. - End -
5-3-84	1556.2	1556.2	556.2	COMPLETED ANNUAL INSPECTION THIS DATE DID NOT CHANGE OIL OR FILTER! REPAIRED CRACKED MUFFLER AT #3 PIPE, REPLACED ALL EXHAUST GASKETS & HARDWARE REPLACED INDUCTION AIR FILTER. INSPECTED & LUBED CONTROLS, CLEANED. GAPPED & ROTATED SPARK PLUGS. ENGINE COMPRESSIONS: #1 $\frac{78}{80}$ #2 $\frac{76}{80}$ #3 $\frac{75}{80}$ #4 $\frac{73}{80}$ NOTE: ENGINE TBO IS 1800 HRS PER AD 81-18-04. RECOMMENDED PROP OVERHAUL BY MCCAULEY IS 1500 HRS, 56.2 HRS OVER. END ENTRY

HENRY WEBER AIRCRAFT DISTRIBUTORS, INC.
LANCASTER AIRPORT, R. D. 8 LITITZ, PENNA.

DATE 5-3-84
Details of this work order are on file under
No. 6772

Inspector *Jerry J. Snyder*

AIRCRAFT 1556.2 & ENGINE 1556.2 TACH 1556.2 ENGINE

I CERTIFY THAT THIS ~~AIRCRAFT~~ ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH # (AN) ~~1000 HRS~~ ANNUAL INSPECTION AND DETERMINED TO BE IN AN AIRWORTHY CONDITION.
REP. STATION # 110-2

6461

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
1985				TOTALS brought forward from previous page
5-23	1646.4	1646.4	636.4	COMPLETE MAJOR OVERHAUL OF ENGINE SERIAL # L-17850-51AC. ENGINE TEST CELL RUN AND FOUND SATISFACTORY. ENGINE INSTALLED IN AIRCRAFT, GROUND RUN, LEAK CHECKED AND FOUND SATISFACTORY.

Mdl. IO-360-A3B6D S/N L-17850-51AC
 Engine has been Inspected, Overhauled, as prescribed by Manufacturers Specifications. The Engine & Components were inspected in accordance with current Federal Aviation Regulations & found airworthy for return to service. Steel parts have been magnetically inspected & non-ferrous parts checked with dye penetrant. All applicable Airworthiness Directives & Factory Bulletins complied with.
 TOTAL TIME 1646.4 T.S.O. 00:00

Pertinent details of the repair are on file at this agency under work order No. 5886
 Date MAY 23 19 85
 Signed Scott H. Smith
 for Columbia Aircraft Services, Inc. —
 FARMERS Bloomsburg, Penna.

PHONE 1-800-222-1522
 BILL BARSLER

COLUMBIA AIRCRAFT SERVICES, INC.
LIMITED WARRANTY

COLUMBIA AIRCRAFT SERVICES, INC., warrants each overhauled engine to be free from all defects in workmanship and material for one hundred (100) hours or six (6) months under normal service conditions and pro-rated to five hundred (500) hours or one (1) year under normal service conditions, whichever ever shall occur first. There will be no warranty claim allowed if, in the opinion of Columbia Aircraft Services, Inc., the engine may have been subject to unauthorized repair, alteration, improper adjustment, operation contrary to the manufacturer's operational instructions or otherwise misused.

Our obligation under this warranty is limited to replacing at our plant, any engine which has been returned to us, with transportation charges pre-paid, and which, in our opinion, is defective as a result of our workmanship. This warranty does not cover any labor charges for removal and/or replacement of the installed engine.

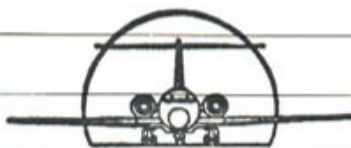
No other variation of this warranty shall be binding to Columbia Aircraft Services, Inc., unless in writing, signed by a duly authorized officer of Columbia Aircraft Services, Inc.

Any implied warranties applicable by law are limited in duration to the duration of the warranty set forth above. To the extent permitted by law, all consequential damages are excluded from the computation of damages for the breach of any express or implied warranty.

Make LYCOMING Model IO-360-A3B6D S/N L-17850-51AC

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
5-29-85	1636.9	.0.5	636.9	TOTALS brought forward from previous page
INSPECTED ENGINE AFTER OVERHAUL BY COLUMBIA AIRCRAFT. REPLACED THROTTLE & MIXTURE CONTROL ROD ENDS. INSTALLED PAL-NUTS ON FUEL INJECTOR STUDS. REPAIRED LOOSE COWL FLAPS ON LOWER COWLING. NOTE: AD 84-26-02 ON INDUCTION FILTER REPLACEMENT IS DUE AT TACH 7056.2. AD 78-09-07 ON IMPULSE COUPLING INSPECTION IS DUE AT TACH 1136.4.				<p>HENRY WEBER AIRCRAFT DISTRIBUTORS, INC. LANCASTER AIRPORT, R. 3 LITITZ, PENNA. DATE 5-29-85 REP STATION NO. 110-2 DETAILS OF THIS WORK ORDER ARE ON THE ORDER NO. 7299 INSPECTOR <i>Jerry J Snyder</i> AIRCRAFT 1636.9^{5 mod} ENGINE 5 I CERTIFY THAT THIS ENGINE ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH § (AN) § 19 ANNUAL INSPECTION AND DETERMINED TO BE IN AN AIRWORTHY CONDITION.</p>
END				
8-9-85			671.74	oil changed, replaced and inspected oil filter 7qts #50 mineral Aero Shell colored R.E. Cator A+P1988798
8-16-85			671.74	Removal #2 cyl. due to low compression. Returned cyl Assy to Columbia A/C Serv Inc for repairs (see yellow tag) installed cyl Assy, using all new seals & gaskets. ground run o.k. no oil leaks R.E. Cator A+P1988798
8-19-85			673.6	c/w Precise Flight Inc. service bulletin # 011085 R.E. Cator A+P1988798
11-13-85	1697.2	60.8	697.2	CHANGED OIL & FILTER, ADDED 7QTS AEROSHELL 80W MINERAL OIL. RUN-UP-GOOD <i>Jerry J Snyder</i> A+P 194488652
END ENTRY				
5/8/86	1749.6		749.6	CHANGED OIL + FILTER, 8 QTS 80 W AEROSHELL <i>Orb C Johnson</i> A+P 330466427
SUB-TOTALS this page				

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				TOTALS brought forward from previous page
6-13-86	1754.1	117.7	TACH 754.1	HENRY WEBER AIRCRAFT DISTRIBUTORS, INC. LANCASTER AIRPORT, R. D. 3 LITITZ, PENNA. DATE 6-13-86 REP. STATION NO. 110-2 DID NOT CHANGE OIL OR FILTER. REPAIRED BROKEN BAFFLING AT #2 CYL. REPLACED RAM AIR DOOR SHAFT & NUT PLATES. LUBED FLIGHT CONTROLS. END ENTRY
				DETAILS OF THIS WORK ORDER ARE ON THE ORDER NO. 7861 #1 79/80 #2 79/80 #3 74/80 #4 69/80 INSPECTOR Larry J. Snyder AIRCRAFT 1754 ENGINE 117.7 I CERTIFY THAT THIS ENGINE ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH (AN) 100 HR. (ANNUAL) INSPECTION AND DETERMINED TO BE IN AN AIRWORTHY CONDITION.
11-1-86	1780.0	143.6	TACH 780.0	changed oil using 9 qts Aeroshell 15W50 oil. Replaced Champion CHC8103 oil filter torqued to 20 ft/lbs AND SATIFIED. Removed Screen AND INSPECTED FOR METAL - NONE FOUND Reinstalled with new AN900-16 CRUSH GASKET AND SATIFIED. Performed operational check NO LEAKS NOTED AT THIS TIME. Robert U. Beall 217922647 APP
7-13-87	1860.3	223.9	860.3	HENRY WEBER AIRCRAFT DISTRIBUTORS, INC. LANCASTER AIRPORT, R. D. 3 LITITZ, PENNA. DATE 7-13-87 REP. STATION NO. 110-2 CHANGED OIL & FILTER. ADDED 8 QTS AS 15W-50. INSTALLED NEW INDUCTION AIR FILTER (NEXT REPLACEMENT DUE AT TACH 1360.3) REPLACED THROTTLE SWIVEL JOINT. END ENTRY
				DETAILS OF THIS WORK ORDER ARE ON THE ORDER NO. 8387 TACH 860.3 INSPECTOR Larry J. Snyder AIRCRAFT 1860.3 ENGINE 223.9 I CERTIFY THAT THIS ENGINE ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH (AN) 100 HR. ANNUAL INSPECTION AND DETERMINED TO BE IN AN AIRWORTHY CONDITION.

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				TOTALS brought forward from previous page																														
8-19-88	1951.91	315.51	951.91	Inspected + Serviced engine per M20 service manual, repaired ALTERNATOR, Compression ① 7 7/8 ② 7 7/8 ③ 7 7/8 ④ 7 7/8, serviced with Pennshell 15W50 oil - END -  <p>HOLLY AERO, INC. AIRCRAFT GROUND SERVICES MILLVILLE MUNICIPAL AIRPORT P. O. BOX 1073 MILLVILLE, NEW JERSEY 08332 I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 HOUR ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION TIME IN SERVICE 951 HRS. DATE 8-19-88</p> <p><i>[Signature]</i> 2039 PJA</p>																														
8-15-89	2051	317.51	1053	OIL CHANGE AND FILTER (15/50) INSPECT MAGNETO: REMOVE + INSPECT SCREEN (OIL ANALYSIS KIT) INSTALL NEW SPARK PLUGS (REB 90-E) CLEAN INJECTOR NOZZLES - CORROSION CONTROL OIL COOLER, BAMPERS, INDUCTION + FUELROD TUBES, VALVE COVERS CLEANED + PAINTED. EXHAUST PIPE SPliced + WELDED. <table border="1"> <thead> <tr> <th colspan="6">CYLINDER NO.</th> </tr> <tr> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>5</th> <th>6</th> </tr> </thead> <tbody> <tr> <td>72</td> <td>76</td> <td>75</td> <td>74</td> <td></td> <td></td> </tr> <tr> <td>80</td> <td>80</td> <td>80</td> <td>80</td> <td></td> <td></td> </tr> <tr> <th colspan="6">COMPRESSION CHECK</th> </tr> </tbody> </table> <p>RAINBOW AVIATION MILLVILLE, N.J.</p> <p>From 8-15-89 2051 I certify this ENGINE has been inspected in accordance with an ANNUAL inspection and was determined to be in airworthy condition.</p> <p><i>[Signature]</i> Add No. 177325469 I.A.</p>	CYLINDER NO.						1	2	3	4	5	6	72	76	75	74			80	80	80	80			COMPRESSION CHECK					
CYLINDER NO.																																		
1	2	3	4	5	6																													
72	76	75	74																															
80	80	80	80																															
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1-4-95	2296.21	659.18	1296.21	<p>Old Filterz ^{scr1} Date 1-4-95 tot. time 659.18 tach time 1296.21</p> <p>Changed Fuel I certify that this (aircraft engine) has</p> <p>Leak Screens been inspected in accordance with</p> <p>CK'd, Plugs Cleaned <u>Robert O. Danzi</u> As Annual inspection and was determin-</p> <p>4 Gapped Cyl Comp Robert O. Danzi ed to be in an airworthy condition.</p> <p>172 277 375/20 477/80. AAF 2116219</p> <p>ADP 2116219</p> <p>NO DEFECTS NOTED. DUC EA-100 HRS, ENGSERO. 7 QTS A/S 15/50, Run up & LEAK CHECK OK. <u>Robert O. Danzi</u> ADP 2116219</p>
6/1/95	2339.52	1339.52		<p>Removed unservicable vacuum pump and installed Airborne P/N 211C1</p> <p><u>William E. Brand</u> ADP 213822125</p>
6-96	2342.96	696.56	1342.96	<p>Inspected + serviced engine per m 20 INSP. GUIDE, oil filter out to INSP. (OK), serviced with Aeroshell 15W50 oil, c/w CXC SB STC INSP. OF VERMATHRAM, c/w AD 93-02-05 AND CXC SB 342A BY REINSPECTION OF fuel INSPECTION LINES, Replaced Air Filter Element, Compression ① 24/30 ② 24/30 ③ 25/30 ④ 25/30 —</p> <p>— END —</p>
7-5-96	2357.61	711.21	1357.61	<p>INSTALLED FLYCROSS SYSTEM I.G. H.P. HRS P/N E-100 DA-15 S/N 4062381 651 P/N 72357 #8 NEW CUMMINS RHM386 SPARK PLUGS - GROUND RUN OK <u>Earl J. Sil</u> ADP 144447213</p>
				SUB-TOTALS this page

IN ACCORDANCE WITH A ~~100 HOUR~~ - ANNUAL INSPECTION AND WAS FOUND TO BE IN AIRWORTHY CONDITION.

TIME IN SERVICE 2342.96 HRS. DATE 2-6-96

NAME Robert O. Danzi CERT. NO. 2116219

ADMIRAL AIR SERVICES INC., WOODBINE, NJ 800-861-8140

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
8-7-96	2358.47		1358.47	C/W 96-12-07 PWR SB 645 SGB AD LOG SHEET 88. REMOVED AIR- 10-382355-11 D/LN-2021 TW 936141 INSTALLED (2) POINTS ES10-382385 + (2) CAPICATORS ES10-382807 INSTANTLY TIMED. INSTALLED & TIMED ON AIRPLANE. TEST RUN (C/W) E. J. Gibson A&P 14447213
1-2-97			1375.5	INSTALLED NEW AIRBOR EGT PROBE #1042 3 NEW INTAKE GASKETS #1 #2 + 4 IN- STALL TO BECAUSE OF LEAKS E. J. Gibson A&P 14447213
4-4-97	2386.76	749.73	1381.76	C/W ANNUAL INSPECTION - CHANGED OIL & AIRBOR- SHELL ISW50. CH8103 OIL FILTER. CLEANED & INST. SPARK PLUGS - REPLACED #1 T. WITH NEW RHM 38E, IG HARNESS INSPTED. CHECKED MRF TIMING. COMP. CK #1 74/80 #2 77/80 #3 74/80 + 4 75/80 INST. SERVO INLET SCREEN, CLEANED INJECTORS & INST'D O LINES PER 93-02-05. BA-6203 AIR FILTER REPLACED. AD'S CHECKED THRU 97207 LIST IN AD-LOG E. J. Gibson A&P 14447213
				Date 4-4-97 T.T: 2386.76 Tach: 1381.76 I certify that this AE engine has been inspected in accordance with an annual inspection and was de- termined to be in an airworthy condition. <i>E. J. Gibson</i> EDWARD J. GIBSON A&P 14447213 IA

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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5-1-98	2401.88	755.48	1401.88	INSPECTED + SERVICED ENGINE PER M20 J SERVICE MANUAL, CUT OIL FILTER TO INSPECT-OK, SERVICED WITH AEROSHELL 15W50 OIL, TIGHTENED BOTH CAPACITORS IN MAGNETO COVER, RESET TIMING, REPLACED VALVE COVER GASKET, REPLACED AIR FILTER ELEMENT, C/W AD 93-02-05 BY REINSPECTION OF FUEL INJECTION LINES PER CXC. S.B. 342A, Com-


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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7/11/00	2517.0	870.54	1516.99	REMOVED ENGINE FOR REPAIR DUE TO STEEL IN FILTER AND SCREEN. <i>Dave M/S</i> 203984EA

Eng M/N: IO-360-A3B6D **Eng S/N:** L-17850-51AC **Eng. TT:** 2517
Tach: 1516.99 **Date:** 8/18/00

Disassembled, cleaned, and inspected as required to replace camshaft and lifters. Replaced exhaust guides in 3 cylinders, reamed guides, ground valves and seats, cylinder barrels were oversized to P10, replaced 1 cylinder with a complete assembly cylinder. Reassembled engine in accordance with Lycoming Overhaul Manual 60294-7 using parts as listed below. Engine was not test run.

8 72877 Lifter body, 1 75165 Clip, 5 AEL12186 Rod nuts, 1 AEL18109-S Impeller kit, 1 AN-8-14A Crankgear bolt, 2 ASC10207P10 Pistons, 1 IO-360 Crankcase repair, 4 J9613-53 Lord mounts, 1 LW-12920 Tube, 1 LW-18840 Camshaft, 3 SL12186 Rod nuts, 1 SL12944 Gasket set, 8 SL75060 Rod bolts, 3 14H21950-P10 Rings, 8 72198 Piston pin plugs, 1 AEL-16740 Valves, 1 SL10207 P10 Pistons, 1 SL13622 Valves, 6 SL74241A P10 Rings, 1 IO-360 Overhauled complete assembly cylinder.

Penn Yan Aero Service, Inc.
2499 Old Bath Road
Penn Yan, New York 14527
WO# 4651-00



FAA Approved Repair Station #NJ1R350K
Dave M/S
Authorized Signature

Aviation Support Services, Inc.
MIV
Engine Log Entry N201RZ Tach 1517.10,
TTE 2517.0, SMOH 870.54, SIRAN 00.00.
9/6/00

Reinstalled engine on N201RZ using new Lord mounts. All fuel hoses forward of firewall replaced. Repaired/replaced baffles as required. C/W AD93-02-05 and SB342A by verifying fuel injector lines are clamped per SB. Serviced with Phillip Type M 20W50 mineral oil. END

I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED
IN ACCORDANCE WITH 100 HOUR ANNUAL INSPECTION AND
WAS FOUND TO BE IN GOOD AIRWORTHY CONDITION.
TIME IN SERVICE 2517.0 HRS. DATE 9/6/00

Dave M/S 203984EA
NAME CERT. NO.

AVIATION SUPPORT SERVICES, INC.
Millville Municipal Airport • P.O. Box 23 • Millville, NJ 08332
HANGAR (609) 327-4638 OFFICE (609) 825-7371

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9/14/00			1518.33	C/W AD 2000-12-53 (b) (1) BY INSPECTION OF OIL FILTER ADAPTER GASKET. NO DEFECT NOTED. REPLACEMENT DUE BY 1567 TACH. —END— Duane M. [Signature] 20739845A
12/19/00			1547.76	CHANGED OIL + FILTER, C/W AD 00-12-53 BY REPLACING OIL FILTER ADAPTER PLATE GASKET WITH P/N 06B23072 AND MARKING PLATE PER S.O. 543A, SERVICED WITH ARMOHELL 15W50 OIL - END Duane M. [Signature] 20739845A

Aviation Support Services, Inc.
 Engine Log Entry N201RZ. Tach 1630.62,
 SMOH 984.16, SIRAN 113.62
 10/8/01

I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED
 IN ACCORDANCE WITH A ~~100~~ HOUR-ANNUAL INSPECTION AND
 WAS FOUND TO BE IN AIRWORTHY CONDITION.
 TIME IN SERVICE 2630.62 HRS. DATE 10/21/01

Inspected and serviced engine per M20 inspection

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Aviation Support Services, Inc.
MIV

Engine Log Entry N201RZ Tach 1737.47,
TT 2737.47, SMOH 1091.01, SIRAN 220.7
8/28/02

Inspected and serviced engine per M20 inspection guide. Cut oil filter to inspect (ok), serviced with Phillips X/C M 20W50 oil and LW16702 additive. Replaced air filter element. Reinspected fuel injector lines per AD93-02-05. AD02-12-07 p/c/w by installation of oil filter adapter gasket p/n 06B2307 on 1/19/00. Compression: (1) 74/80, (2) 78/80, (3) 78/80, (4) 77/80. END

I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A ~~100~~ HOUR-ANNUAL INSPECTION AND WAS FOUND TO BE IN AIRWORTHY CONDITION.

TIME IN SERVICE 2737.47 HRS. DATE 8/28/02

Deen Miley 2023984 IA
NAME CERT. NO.

AVIATION SUPPORT SERVICES, INC.
Millville Municipal Airport • P.O. Box 26 • Millville, NJ 08332
HANGAR (609) 327-4536 OFFICE (609) 825-7371

11/29/02		1772.47		CHANGED OIL + FILTER, CUT FILTER TO INSP (OK) SERVICED WITH BRUSHELL TO Deen Miley 2023984 IA
09-19-02	2816.9	1170.5	1816.9	Removed Oil, O.I. Filter + Reinspect O.I. Filter + Service OK. Replaced New O.I. Filter + Re Inspected O.I. Service + Inspected
				IAW an Annual Inspection IAW FAR43 apx. D and or manufacturer's instructions and has been determined to be in airworthy condition at this time. See log entry for details, this date. TT 2816.9 Hobbs/Tach. 1816.9 Name John Swasey
				A&P 231155480 - IA Signed Jh Swasey

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				TOTALS brought forward from previous page
12-15-04	2860.9	1214.5*	1860.9	<p>Compress Test. 1) 70 2) 74 3) 74 4) 78 all over 90 PSI. Note # 4 Cylinder Renewal for Inspects of Excess oil on Plugs. Oil Control Ring Broken. Cylinder Renewed by Certified Engine Unlinked w/o # 22348. Re Installed w/ new Gaskets & Seats, Rebuilt Oil Filter Change. Installed New CH 48103 Oil Filter & 8gts w/100 oil c/w AW 93-02-05 Fuel Injector Lines by Visually Inspection & Pressure Test OK next Due 12-31-05 on Tach 1860.9 AD's checked Thigh Issue 2004-24-04 no New Noted. Installed 8 New Albums RHM 38E Spark Plugs. Run up OPS check, and Break IN of # 4 cyl Complete No leaks & OPS all Good.</p> <p>I certify that this <u>Engine Assembly & Propeller</u> has been inspected IAW an Annual <u>Inspection</u> IAW 14.113 apx. D and/or manufacturer's <u>M-20 S/m</u> and has been determined to be in <u>airworthy</u> condition at this time. See details listed in above entry as date. TT 2860.9 Hours/Tach 1860.9 by <u>John Sanchez</u> A&P 23119 5490 IAW Signed <u>[Signature]</u></p>
2-3-06		1883.1		<p>Compression Test. (Cold) all above 75 PSI/90 PSI Renew Oil Oil Filter, Inspect Oil Filter & Screens. Installed New CH 48103 Oil Filter & 8gts Avioshell w/100 oil. Inspect Oil Plugs. checked Engine & Mag Timing OK. AD's checked Thigh Issue 2006-01-51 @ New Noted 2005-19-11- N/A M/P: 2004-10-14-C</p>
				SUB-TOTALS this page (Cont'd) →

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2-3-06			1863.1	Conrad → C-12 Start Retry Bolt No Action Due @ Prop Shells on Overhaul, 2005-12-06 Magna Engine Cobling (Squidly 10-9-12-07) no taken. Due @ Tools 2010.9 Run up take check / oil check. OK. I certify that This Engine & Access has been Inspected FAW by Annual Inspector and has been Determined to be in an Airworthy Condition at This Time, John S. [Signature] A&P 231 95180 JA [Signature]

Flightline Aero/Marine Service, Inc. Hanger 4A, Woodbine Airport, NJ 08270
LOG ENTRY

N201RZ Mooney M20J S/N 24-0327 Tach Time 1895.3 November 14, 2006
1. Removed magneto due to oil leak, installed with new gasket and timed to engine. Ground run okay.
Edward J. Gibson [Signature] A&P 2632796

N201RZ	Mooney M20J	S/N 24-0327	Tach. Time	1897.0
May 4, 2007	McCauley B2D34C212	S/N 773610	SOH	80.1
TTAC 2897.00	Lycoming IO-360-A3B6D	S/N L-17850-51A	SMOH 1250.55	Eng. TT 2897.0

1. Annual/100 hour inspection per Mooney M20 Maintenance Manual and inspection sheet.
2. All spark plugs cleaned, set and tested. Compression check #1 72/80, #2 76/80, #3 78/80 and #4 74/80.
3. Oil changed with 8 quarts Acrosnell W100. Filter changed and sump screen inspected.
4. Fuel inlet screen inspected.
5. Four new 77611 exhaust gaskets installed when muffler removed.
6. Installed new 72059 dip stick gasket and safetied.
7. AD 2002-26-01 fuel injector lines, inspected per SB 342D. Next inspection due 2997.
8. Complete AD list attached.
9. All control movements checked and entire aircraft lubed per maintenance manual.

Edward J. Gibson [Signature] A&P2632796 **May 4, 2007**
I certify that this engine has been inspected in accordance with an annual inspection and was determined to be in an airworthy condition.
Edward J. Gibson [Signature] A&P 2632796 IA **May 4, 2007**
FLIGHTLINE AERO/MARINE SERVICES, INC * 655 HENRY DeCINQUE BLVD. * WOODBINE, NJ 08270 * 609-861-1799

N201RZ	Mooney M20J	S/N 24-0327	Tach. Time	1897.0
July 18, 2008	McCauley B2D34C212	S/N 773610	PTT 2928.1	SOH 84.2
TTAC 2901.10	Lycoming IO-360-A3B6D	S/N L-17850-51A	SMOH 1254.65	Eng. TT 2901.1

1. Annual/100 hour inspection per Mooney M20 Maintenance Manual and inspection sheet.
2. All spark plugs cleaned, set and tested. Compression check #2 76/80, #3 78/80 and #4 76/80. The #1 cylinder was removed due to an intake valve guide leak found during compression. Installed after Mattituck repairs with new rings, seals & gaskets.
3. Oil changed with 8 quarts Acrosnell 100. Filter changed and sump screen inspected.
4. Fuel inlet screen inspected.
5. Four new 77611 exhaust gaskets installed when muffler removed for cylinder change.
6. AD 2002-26-01 fuel injector lines, inspected per SB 342D. Next inspection due 3001.
7. Complete AD list attached.
8. All control movements checked and entire aircraft lubed per maintenance manual.

Edward J. Gibson [Signature] A&P2632796 **July 18 2008**

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N201RZ June 11, 2009 TTAC 2911.8	Mooney M20J McCaughey B2D34C212 Lycoming IO-360-A3B6D	S/N 24-0327 S/N 773610 S/N L-17850-51A	Tach.Time 1907.7 SOH 94.9 PTT 2938.8 SMOH 1265.35 Eng.TT 2911.8	1. Trouble shoot high oil temperature. Found gauge to be reading high, had overhauled and calibrated by Air Parts of Lock Haven. Installed P/N 640281-003, S/N 091529. 2. Installed new oil temperature probe 880009-501. 3. Oil cooler overhauled by Positech M/N 8432R, S/N 5, and re-installed. 4. Installed new oil cooler bypass valve due to intermittent testing for operation. AFI 19600. 5. Installed two new cowl flap disconnects A29104. Edward J. Gibson <i>[Signature]</i> A&P2632796 June 11, 2009 FLIGHTLINE AERO/MARINE SERVICES, INC * 655 HENRY DeCINQUE BLVD.* WOODBINE, NJ 08270 * 609-861-1799
N201RZ September 19, 2009 TTAC 2910.6	Mooney M20J McCaughey B2D34C212 Lycoming IO-360-A3B6D	S/N 24-0327 S/N 773610 S/N L-17850-51A	Tach.Time 1910.6 SOH 93.7 PTT 2937.6 SMOH 1268.25 Eng.TT 2910.6	1. Annual/100 hour inspection per Mooney M20 Maintenance Manual and inspection sheet. 2. All spark plugs cleaned, set and tested. Compression check #1 75/80#2 75/80, #3 73/80 and #4 75/80. 3. Oil changed with 8 quarts Aeroshell 15W50. Filter changed and sump screen inspected. 4. Fuel inlet screen inspected. 5. AD 2008-14-07 fuel injector lines, inspected per SB 342E. Next inspection due 3010. 6. Complete AD list attached. 7. All control movements checked and entire aircraft lubed per maintenance manual. Edward J. Gibson <i>[Signature]</i> A&P2632796 September 19, 2009 I certify that this <i>engine</i> has been inspected in accordance with an <i>annual</i> inspection and was determined to be in an airworthy condition. Edward J. Gibson <i>[Signature]</i> A&P 2632796 IA September 19, 2009 FLIGHTLINE AERO/MARINE SERVICES, INC * 655 HENRY DeCINQUE BLVD.* WOODBINE, NJ 08270 * 609-861-1799
N201RZ February 4, 2011 TTAC 2913.0	Mooney M20J McCaughey B2D34C212 Lycoming IO-360-A3B6D	S/N 24-0327 S/N 773610 S/N L-17850-51A	Tach.Time 1913.0 SOH 96.1 PTT 2913.0 SMOH 1266.6 Eng.TT 2913.0	1. Annual/100 hour inspection per Mooney M20 Maintenance Manual and inspection sheet. 2. All spark plugs cleaned, set and tested. Compression check #1 77/80, #2 77/80, #3 77/80 & #4 76/80. 3. Oil changed with 8 quarts Aeroshell 15W50. Oil filter changed and sump screen inspected. 4. Magneto timing checked. 5. Replaced fuel line spider from controller with 124001-4CR-0172. 6. AD 08-14-07 fuel injector lines were inspected per SB 342E, inspection next due 02-2012 or 3013 ACTT. 7. Complete AD list attached. All control movements checked and entire aircraft lubed per maintenance manual. Edward J. Gibson <i>[Signature]</i> A&P2632796 February 4, 2011 I certify that this <i>aircraft</i> has been inspected in accordance with an <i>annual</i> inspection and was determined to be in an airworthy condition. Edward J. Gibson <i>[Signature]</i> A&P 2632796 IA February 4, 2011 FLIGHTLINE AERO/MARINE SERVICES, INC * 655 HENRY DeCINQUE BLVD.* WOODBINE, NJ 08270 * 609-861-1799
Feb/022/2012 N201RZ Mooney M20J Ser#24-0327 Tach: 1939.03 ACTT2939.0 Lycoming IO-360-A3B6D Ser# L-17850-51A TSMO:1292.6 ETT: 2939.0 McCaughey B2D34C212 Ser#773610 PTSMO:122.1 PTT2979.3				
Comp test over 80psi #1-77, #2-77, #3-75, #4-76. Changed Oil and filter. Installed 8 qts Aeroshell 15W50 and a CH48110-2 filter. C/W AD11-26-04 Fuel inj lines, route and clamps ok, no cracks noted. AD 11-15-10 N/A by date. Installed new engine baffle seals. Mag timing checked. Cleaned, tested and rotated all spark plugs. Engine controls, travel checked and lubed. Run up and leak check OK. All AD's C/W thru this date. I certify that this engine has been inspected in accordance with an Annual inspection and was determined to be in airworthy condition at this time. Kirk Knepper <i>[Signature]</i> A&P522199032 IA				

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Cude Aviation Service
PO Box 60133
San Angelo, TX 76906-0133

5-21-2014 N201RZ s/n: 24-0327 Tach: 2047.44 **ENGINE: Lycoming IO-360-A3B6D s/n: L-17850-51AC**
TTE: 3047.44 SMOH: 1401.01 C/W Annual / 100 hr Inspection per Mooney M20J Inspection Guide and 14 CFR Part 43 Appendix D. Hot engine compressions were: Cyl #1= 78, #2=79, #3= 78, #4= 77 / 80. Removed vacuum pump to install new Garlock Seal. Re- installed vacuum pump with new gasket. Engine serviced with 8 qts Aeroshell 15W50 and Champion 48103 oil filter. Inspection of removed oil filter checked OK. Inspected and lubed engine controls. Inspected exhaust system. Checked OK. Cleaned and gapped sparkplugs. Checked mag to engine timing. Checked OK. C/W AD2011-6-04 by inspection of fuel injector lines. No defects were found. Inspected and cleaned fuel filter. Checked OK. AD's checked thru 5-21-2014. For complete list of Ad's, see A/C records. I certify that this engine was inspected in accordance with an annual inspection and was determined to be in an airworthy condition.

George Cude Jr IA2691937

George Cude Jr

A3B6D

Cude Aviation Service
PO Box 60133
San Angelo, TX 76906-0133

8-5-2015 N201RZ s/n: 24-0327 Tach: 2070.88 **ENGINE: Lycoming IO-360-A3B6D s/n: L-17850-51AC**
TTE: 3070.88 SMOH: 1424.45 C/W Annual / 100 hr Inspection per Mooney M20J Inspection Guide and 14 CFR Part 43 Appendix D. Hot engine compressions were: Cyl #1= 78, #2=80, #3= 80, #4= 79 / 80. Engine serviced with 6 qts Aeroshell 15W50 and Champion 48103 oil filter. Inspection of removed oil filter checked OK. Inspected and lubed engine controls. Inspected exhaust system. Checked OK. Cleaned and gapped sparkplugs. Checked mag to engine timing. Checked OK. C/W AD2011-6-04 by inspection of fuel injector lines. No defects were found. Inspected and cleaned fuel filter and fuel drain. Checked OK. AD's checked thru 8-4-2015. For complete list of Ad's, see A/C records. I certify that this engine was inspected in accordance with an annual inspection and was determined to be in an airworthy condition.

George Cude Jr IA2691937

George Cude Jr

A3B6D

Cude Aviation Service
PO Box 60133
San Angelo, TX 76906-0133

11-17-2017 N201RZ s/n: 24-0327 Tach: 2071.60 **ENGINE: Lycoming IO-360-A3B6D s/n: L-17850-51AC**
TTE: 3071.60 SMOH: 1425.17 C/W Annual / 100 hr Inspection per Mooney M20J Inspection Guide and 14 CFR Part 43 Appendix D. Hot engine compressions were: Cyl #1= 78, #2=79, #3= 76, #4= 74 / 80. Engine serviced with 7 qts Aeroshell 15W50 and Champion 48103 oil filter. Inspection of removed oil filter checked OK. Inspected and lubed engine controls. Inspected exhaust system. Checked OK. Cleaned and gapped sparkplugs. Checked mag to engine timing. Checked OK. C/W AD2011-6-04 by inspection of fuel injector lines. No defects were found. Inspected and cleaned fuel filter. Checked OK. AD's checked thru 11-8-2017. For complete list of Ad's, see A/C records. I certify that this engine was inspected in accordance with an annual inspection and was determined to be in an airworthy condition.

George Cude Jr IA2691937

George Cude Jr

A3B6D

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Cude Aviation Service
PO Box 60133
San Angelo, TX 76906-0133

2-25-2018 N201RZ s/n: 24-0327 Tach: 2071.60 **ENGINE: Lycoming IO-360-A3B6D** s/n: L-17850-51AC
TTE: 3071.60 SMOH: 1425.17 Removed non-working starter weighting 16.8 lbs. Installed new Hartzell model 149NL weighting 9.3 lbs. Aircraft weight and balance has been updated. Ground OPS check OK. sky-Tec
 George Cude Jr IA2691937

George Cude Jr

Cude Aviation Service
PO Box 60133
San Angelo, TX 76906-0133

12-13-2018 N201RZ s/n: 24-0327 Tach: 2076.69 **ENGINE: Lycoming IO-360-A3B6D** s/n: L-17850-51AC **TTE: 3076.69 SMOH: 1430.26** C/W Annual / 100 hr Inspection per Mooney M20J Inspection Guide and 14 CFR Part 43 Appendix D. Hot engine compressions were: Cyl #1= 78, #2=78, #3= 76, #4= 75 / 80. Engine serviced with 7 qts Aeroshell 15W50 and Champion 48103 oil filter. Inspection of removed oil filter checked OK. Inspected and lubed engine controls. Inspected exhaust system. Checked OK. Cleaned and gapped sparkplugs. Checked mag to engine timing. Checked OK. AD 2004-10-14, no record of propeller strike to date. C/W AD2015-19-07 by inspection of fuel injector lines. No defects were found. Inspected and cleaned fuel filter. Checked OK. Installed new induction air filter, Brackett BA-6205. Mag switch checked OK. AD's checked thru 12-9-2018. For complete list of Ad's, see A/C records. I certify that this engine was inspected in accordance with an annual inspection and was determined to be in an airworthy condition.

George Cude Jr IA2691937
George Cude Jr

4/5/19			2092.63	
				Changed oil. Serviced with 7 qts. Philip 20w50 oil and CH48103-1 oil filter and Camguard 6oz.
5/18/19			2110.0	<i>Bryce Klingler ACP 2225109IA</i> Changed oil & CH48103-1 Oil Filter serviced with Philip 20W50 and 6oz of Camguard
				<i>Bryce Klingler ACP 2225109IA</i>

SUB-TOTAL

