

Engine Record General Information

Manufacturer Lycoming Model IO-360-A3B6

Serial L-26806-51A Type Certificate IE10

This engine is currently installed in aircraft Mooney M20J 24-3384 N9146Q

Minimum Octane Fuel _____ Oil Grade: Summer _____ Winter _____

Magneto Time _____ Point Setting _____ Firing Order _____

Spark Plug Gap _____

Manufacturer recommended overhaul at _____ hours

\$

TEXTRON Lycoming

Reciprocating Engine Division/
Subsidiary of Textron Inc.

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

ENGINE SERIAL NUMBER

L	-	2	6	8	0	6	-	5	1	A
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IN SERVICE DATE

2	6	1	2	9	7
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 ENG. T.T.

1	0	0
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DETACH AND RETAIN THIS PORTION FOR YOUR RECORD

DATE 19__	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
5-19-46			6.0	Complid with AD 93-02-05 by inspecting fuel lines, nos3000 and clamps per approving SBN, 342A. Whodney Aircraft Corp. TCA AB By <i>Quade</i> 5/20/46
6-25-46	29.8	8	29.8	Service BATTERY, PARASIT FLUID, LUBE CONTROLS CHARGED OIL & FILTER. ACP 232203 plan Pass Time Aviation 2400 HICKENBARGER WAY ALBUQUERQUE, N.M. OR 744 TIME
7-15-46	53.5		53.5	Oil oil filter change. Installed new CHEVROLET filter & serviced with AS 15050 oil. Run up & land check good OR 744 TIME

DATE 19__	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
8-26-96		HDRBS	23.5	TOTAL TIME 83.5 #1 7E #2 7E #3 7E #4 7E CONDUCTED OIL W/IC Date 8-26-96 WOW A5324 Fach Time 83.5 Total Time 83.5
		COMPRESSION + FILTER CHYBILLO		I certify that this repair/maintenance has been inspected and determined to be in an airworthy condition. Signed <i>Richard A. [Signature]</i> for KANSAS CITY AVIATION CENTER, INC. 151st & Plumum Road Olathe, Kansas 66062 FAA Repair Station #AMTR171C

DATE	RECORDING TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations <small>Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)</small>
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10-3-90 WOP ASH23

Tech Team 1304 Total Team 1304

Oil Changed Added 8 Oz. Amplex 1502 Oil

Filter Changed 6970

Ground run and checked for leaks. No leaks noted.

Signed *[Signature]*
 Keesler City Aviation Center, Inc.
 1117 E. Phelan Road
 Ocean Springs, AL 36602
 FAA Repair Station #ANVT171C

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10/14/94 136.4

Citro Lycoming SR595A by inspection. Date code of installed pump is 154739511. No further action is required. This in compliance with priority letter AD 96-19-11 (E) End

[Signature]
 Tom Winesland
 Mooney Aircraft Corp
 CRS4-EHR830R

11-19-96

Changed oil & filter serviced with 89TS

Aceshell 50w & CH48110 Filter. Cleaned

Run & checked for leaks. OK.

[Signature]
 Bill S. Combs 1483

DATE 19 <u>56</u>	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
12-10	181.9			C/W HYDROLYSIS S/B 5278 BY INSPECTION ALL PINS GOOD STROVE RUN OK. Teflon Hydrolysis Aileen K. W. Service R/P
2/12	181.9		181.9	Annual inspection completed this date Performed a hot cylinder compression check as follows: 1-74/HO, 2-76/80, 3-74/80 + 4-73/80. Changed oil and filter. Serviced with 8 qts. Aeroshell 15W-50. Replaced all four rocker box cover gaskets. Run-up

0 ASA 1993

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				and leak check good. Replaced lockwashers on exhaust headers and torqued nuts to tys. specs. Tightened manifold pressure line. Tightened and safed oil filler tube. Retuned mags to 20°, mag check good. Replaced induction air filter. Replace vacuum regulator garter filter. Lubricated alternate air door seal. C/W AD93.0205 by inspection of fuel injector lines. Setup engine pist H20N service manual. Lubricated engine controls. Repositioned manifold pressure line to clear engine mount. C/W

0 ASA 1993

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10 96				
2/12				(continued)
				LYE 55.58L by inspection of thermodynamic bypass valve only. I certify that this engine has been inspected thru an annual inspection and was determined to be in an airworthy condition this date.
				W.O. 10376
				A. J. P.
				CES FR2R202K
				Horsley Acft Corp.

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19 --				
January 8 1997			2036	Installed new parachute system mgd. This 100-03. s/n 20378. Previous also ok.
		ENO	2900.2	Checked engine oil. Checked gear oil. Checked oil & filters. Swirled to overhaul 100 (Richard Green)
			338.5	Checked oil & filters. Swirled to overhaul 100 (Richard Green)
			358.6	oil & filters overhaul 100 (Richard Green)
7/13			290.2	oil & filters overhaul 100 (Richard Green)

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19 97	301.0		301.0	Revised Cx # 2 Fan Cx. Base Seal Leak. De- GRAZED BY ABO FT LKS RINGS TO BASEL. BEHINDS - EN Cx WITH ALL LOW SEALS AND GASKETS. OILY DR AWX FILTER. SERVICED WITH ACROSS THE BOARD FAN OIL AND OILBIRD FILTER. Grounded Do \$ Leak Checked - OK

Pertinent details of the repair are on file at this agency under work order NO. 10013
 Date: Sept 29 97
 Signed: [Signature]
 for Columbia Aircraft Services, Inc.
 Bloomsburg, Penna.
 FAA R.S. JM2R930K

DATE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS	PAIR
19 97	<p>American Beechcraft Company 1005, A Spoolin Road Leeburg Municipal Airport Leeburg, VA 20175-2748 Tel (703) +78-8395 FAX (703) 771-1079 CTS YBHR768L</p> <p>PERFORMED CYLINDER COMPRESSION CHECK AS FOLLOWS: 1-7880 2-7580 3-7880 4-7680. REMOVED OIL FILTER, CUT OPEN AND INSPECTED. OK. INSTALLED NEW/CH 4810 FILTER AND SAFETIED. SERVICED 1 QT AEROSHELL 80 MINERAL OIL. PERFORMED GROUND RUN AND LEAK CHECKED OK</p> <p>MAINTENANCE RELEASE MAKE <u>Beach</u> MODEL <u>2402</u> SERIAL <u>24-3384</u> THE AIRCRAFT AIRFRAME-ENGINE-PROPELLER OR APPLIANCE IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH CURRENT FEDERAL AVIATION REGULATIONS AND WAS APPROVED FOR RETURN TO SERVICE TO SERVICE. PERTINENT DETAILS OF THE REPAIR ARE ON FILE AT THIS AGENCY UNDER WORK ORDER # <u>22912</u> DATE <u>10/29/97</u> AUTH. SIGN <u>[Signature]</u> TT <u>3-5.3</u> AMERICAN BEECHCRAFT CTS YBHR768L</p>	

*****MUNCIE AVIATION CO. CRS# AVRI3SC*****

DATE 1-13-97 RECO TACH TIME
 19__
 N91460 Date/Tach & ACTT **330.9** Hrs.
 Annual Inspection completed this date Ref Mooney Inspection guide. Changed oil and filter,
 Shell 15W50. Checked compression, 78, 78, 78, & 75/80.
 Complied with AD 93-02-05 by inspection ref LSB 342A of injector lines
 AD 84-26-02 air filter Due 500 ACTT Hrs.
 Ground check and Run Up Ok.

See AD list for details.

I certify that the Engine has been inspected in accordance with FAA inspection and was determined to be in airworthy condition.
 Repair Station No. AVRI3SC
 Make Lyco Ser. No. 6-2680654
 Model P-180-43B Reg. Mark N91460
 The aircraft / component identified above was repaired and inspected in accordance with current Regulations of Federal Aviation Agency, approved for return to service.
 Particular details of the repair are on file at the Agency.
 Work Order No. 113-98 Date 1-13-97
 Signed [Signature] Inspector for
 MUNCIE AVIATION CO. CRS# AVRI3SC
 MUNCIE, IN 47308 765 389 7141

CASA 1993

DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations (Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries))
19__				

GARY JET CENTER
 5401 INDUSTRIAL HWY. • GARY, IN 46406
 PHONE: 219/944-1210 • FAX: 219/944-8232

DATE: 6/16/98 ACTT: 355.9
 Drained oil, installed new filter, and serviced with Aeroshell 100W. Ground run-up and leak check satisfactory.
[Signature] N91460
 A&P 3708969093

CASA 1993

1-21-99 hobbs 402, 8

Inspected engine in accordance with appendix D of
 PART 43 #1 73/80 #2 75/80 #3 72/80 #4 76/80 drained
 oil. Inspected filter serviced with Aershell 15W50-
 installed CH48103 filter-replaced induction air
 filter in accordance AD84-26-02-replaced pushrod
 tube housing for #4 exhaust- repaire left hand
 forward baffle-replaced spark plugs REM38E-cleaned
 fuel nozzles and reinstalled- complied with inspection
 of fuel line in accordance with AD93-02-05 as per
 SB342b-I certify that this engine has been inspected
 in accordance with an annual inspection and was de-
 termined to be in an airworthy condition.

Steve Mooney 489507862A&P

Steve Mooney

Technician or Repair

DATE RECO TACH
19__

GARY JET CENTER
 5401 INDUSTRIAL HWY. • GARY, IN 46406
 PHONE: 219/944-1210 • FAX: 219/944-8232

DATE: 5/7/99

Tach Time: 443.9

N9146Q

Drained oil. Installed new Champion CH48110 filter, and serviced with Aeroshell 100 W oil.

Jerome J. Poradzisz

Jerome J. Poradzisz A&P347763786

Technician or Repair

Mckinney Exec Air -1500 E. Industrial Blvd., McKinney, TX 75069, (972)562-5555
 Reg. #: N9146Q Make: M20J HOBBBS: 4942
 Date: 09/01/99 Serial #: 24-3384 TTSN:
 CHANGED OIL & FILTER, SUBMITTED OIL SAMPLE FOR ANALYSIS. SERVICED W/ 8 QTS
 AEROSHELL 500. INSTALLED BRACKET INDUCTION KIT P/N B996210 W/ NEW FILTER ELEMENT
 P/N BA6205, FILED FORM 337.

DAVID PYRATT A&P465484871A

AIRCRAFT SYSTEMS, INC.

5187 Falcon Road
 Greater Rockford Airport
 Rockford, Illinois 61109
 Phone: (815) 399-0225
 FAX: (815) 399-0084

[Signature]
 Authorized Signature

Dated 1-28-2000

Work Order No. 30183

The unit or assembly identified on this tag was repaired and inspected in accordance with current regulations of the Federal Aviation Agency and was found airworthy for return to service.

**F.A.A. APPROVED
 REPAIR STATION KC2R947K
 MAINTENANCE RELEASE**

Technician or Repair
76
Legs with
Trk. Cleared
05 Inspected
coming
D. 98-2301
Replaced

(Perhaps) faster by 66732. Inspected exhaust, starter, and alternator. Fabricated all eng. controls. Cleared and repaired spark plugs. Ramped hard start mag. and have the stable inspection via Inspector done by Aircraft Systems, Inc.

continued →

DATE	RECORDING TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations
19 Aug 00	5639			Continued →
				no. 30183. Reinstalled and timed mag. to eng. Washed and ran up eng.
				DATE 1-3-00 T1 IN SERVICE 518.5 AD'S CHECKED THRU 02-01 I CENTER THA THIS ENG. HAS BEEN INSPECTED IN ACCORDANCE WITH 145.307 AND INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION. SIGNED: <i>[Signature]</i> NUMBER: 45427099-274
				Drained oil & serviced with Aeroshell 100 W Replaced Champion oil filter CH45110. Obtained oil sample for Analysis - Top Fueling APR 16 01 04 02

Serial No. 7215 Part No. of 667

DA 2000 MONTH TIME SERVICE Mfg. Part Name

ENTRIES MUST BE ENTERED WITH NAME, FILING AND CERTIFICATE NUMBER OF TECHNICIAN OR REPAIR FACILITY. (See back pages for other specific entries.)

DATE	MONTH	TIME	SERVICE	Mfg. Part Name
2-3-00	5/8.5	—	5/8.5	<p>✓ W A ANNUAL INSPECTION. Check compression, #1 76 #2 76 #3 76 #4 75. Changed oil and filter. serviced eng. with Spt. Aeroshell 50^{wt} oil and a CH48110 oil filter. Cleaned and inspected fuel injector nozzles. ✓ W A. D. 73-02-05, inspected fuel injector lines and support clamps. ✓ W Teron by coming S. I. No. 1425, reined exhaust valve guides. ✓ W A. D. 78-23-01, N/A by ✓ W OF vacuum pump. Take a oil sample. Replaced all rocker box cover gaskets ✓ W 67193. Replaced all (exhaust) gaskets ✓ W 66732. Inspected exhaust, starter and alternator. Lubricated all eng. CONTRS. Cleaned and regapped spark plugs. Removed both stick mag. and have the 5000 inspection ✓ W. Inspector done by Aircraft Systems, INC.</p>

CONTINUED →

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1-01-01	589.6	—	589.6	<p>CV ANNUAL INSPECTION. Checked compression #175 #278 #376 #476. Checked mag. Timing TO ENG. Cleared and regapped spark plugs. Cleared fuel injector nozzles and SW A.D. 93-02-05, inspected fuel injector lines and support clamps. Charged oil and oil filter. Serviced eng. with 800. Aeroshell 50wt oil and CH48110 oil filter. Take oil sample KIT PW GA-001. Replaced all exhaust gaskets PW 99611. Lubricated all eng. controls. Inspected starter, alternator, and exhaust system. Replaced Air Filter element PW 81-6105. Installed Air/Oil separator model 300 per M-70 oil separator LCC. Dwg #304. Washed and sand wa eng. see 330 this date.</p> <p>CONTINUED →</p>

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1-01-01	589.6	—	589.6	<p>DATE 1-01-01 TIME IN SERVICE 589.6 THIS ENG. HAS BEEN INSPECTED IN ACCOR WITH A 274 INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION. LICENSED John Bohanna NUMBER: 45220723 589</p> <p>CONTINUED</p>

DATE 19__
RECORDING TACH TIME TODAY'S FLIGHT TOTAL TIME IN SERVICE
Description of Inspections, Tests, Repairs and Alterations
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ENGINE
19146Q Tach: 631.8
25 August 2001 Drain oil. Service with Aeroshell W100. Added AV Blend oil Additive. Cut open oil filter for inspection, no metal found. Installed New filter CH45110. Ran engine, checked for oil leaks, none found.

Russ Pumprey
Russ Pumprey APL6064921A
Air Maintenance, Inc.
339 CR 767
Devine Airport
Devine, TX 78016

DATE 19__
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3-4-02 656.8 656.8
Compressed with following: #17 #27 #37P #47P
Checked manifold to turbine to evaluate. Drained oil, took oil sample for KIT GA-001-48. Degreased oil filter for contaminants. Serviced with 8 quart Aeroshell W100. Installed oil filter CH45110. Serviced with 2 quarts Aeroshell W100. Checked oil additive. Checked and replaced gear plates. Cleaned fuel injectors and valves and fuel and inspected fuel injectors. Inspected and replaced starter. Inspected and replaced alternator and exhaust system. Replaced air filter element P/N BA-1205. Insured and all

(continued)

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4-16-03	724.1	—	724.1	CU ANNUAL INSPECTION per Mooney Airplane Co. 100H. - Annual Inspection Guide. Reformed hot eng compression #1 75/80 #2 75/80 #3 76/80 #4 74/80. Checked mag timing TO eng. Installed all new spark plugs w/ Rem 38's. Changed oil and filter. Served eng with deg. Aeroshell 50wt. oil and CHRYSLER oil filter and 12oz. can of AV Blend. take AV Lab oil sample kit #1 GA-001. Repacked eng air filter #1 BA-6205. lubricated all eng controls. Inspected exhaust system, starter, and alternator. CU A-D. 2002-26-01, Inspected fuel injector lines and support clamps next due at 100hrs or Annual. CONTINUED →

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2003	759.5	—	759.5	DATE 4-16-03 11:14 SERVICE 724.1 AD'S CHECKED THRU 03-02 CERTIFY THAT THIS ENG. HAS BEEN INSPECTED IN ACCORDANCE WITH A <u>RELIABLE</u> INSPECTION AND WAS DETERMINED TO BE IN <u>FAVORABLE</u> CONDITION. SIGNED: <u>DAVID ROHMAN</u> NUMBER <u>454370221 SH</u> DRAINED OIL + TOOK SAMPLE FOR ANALYSIS. ADDED 7 QT'S AEROMETAL 1 CAN AV BLEND OIL ARBITR. INSTALLED NEW CA48/110 OIL FILTER + CUT OF AN OLD OIL FILTER FOR INSPECTION - NO METAL FOUND. LAN OILLINE + CHECKED FOR LEAKS - NONE FOUND. JEFF PALTONMEYER, OWNER 359501853

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5-11-04	778.7	—	778.7	% ANNUAL INSPECTION per MONEY AIRPLANE CO. 100 Hour - Annual Inspection Guide. Checked compressor #1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20. Reamed both rings with Bore. Reassembled and fitted. Serviced eng with Agip. Reassembled and fitted oil filter. Take Aviation Laboratories oil sample in GA-OIL. Cut oil filter open and inspected for metal, none at this time. Added 12oz. can of Avblend. Cleared and gapped spark plugs. Cleared fuel injector nozzles. Lubricated oil eng. controls. Inspected exhaust system, starter, and alternator. Replaced eng air filter. PMS-CRS. % in A.D.'s. SEE A.D. LIST IN BACK OF AIRFARE

COURT: insured →

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				COURT: insured →
5-11-04	826.1		826.1	log book, washed and run up eng. No leaks at this time. DATE 5-11-04 IN SERVICE. 778-7 ADS CHECKED THRU 04-09 CERTIFY THAT THIS ENG. HAS BEEN INSPECTED AND ACCEPTED WITH A FINAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION. SIGNED: Jeff Tackett NUMBER: 359501853
12-1-04	826.1		826.1	DRAINED OIL + TOOK SAMPLE FOR ANALYSIS. ADDED 7 QTS. RE-OILED. ADDITIVE. INSTALLED NEW CH 418/110 OIL. FILTER FOR RESTRICTION. NO METAL FOUND. PMS-CRS. SEE A.D. LIST IN BACK OF AIRFARE

359501853

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09-15-05	852.3	—	852.3	CHL AIRCRAFT INSPECTION OF ENGINE, DIFFERENTIAL COMP- RESSOR OVER 80 PSI AS FOLLOWS: #1, 78; #2, 77; #3, 78; #4, 75. CHANGED OIL AND FILTER, LIFT OPEN USED FILTER TO INSPECT FOR METAL, NONE FOUND. SERVICED WITH 7 QUARTS AEROSHELL GRADE 100 SAE 50 OIL AND CHAMPION CH4B110-1 FILTER, ADDED 1cc. 120Z. CAN OF AVBLEND. SUBMITTED AN OIL SAMPLE TO AVIATION LABORATORIES, VERIFIED THAT IGNITION TIMING IS 5 DEGS. CLEANED AND REGRIPPED SPARK PLUGS. CHL AND 03-36-01 INSPECT FUEL INJECTOR NAZZE LINES AND CLAMPS FOR CONDITION AND PROPER INSTALLATION. REINSPECT @ 952.3 HRS BY NEXT AGENCY OR IF DISTURBED. INSPECTED ENGINE AND ALL

CONTINUED

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07-15-05				<div data-bbox="820 1417 998 1995" data-label="Text" style="border: 1px solid black; padding: 5px;"> <p>DUGOSH AIRCRAFT SERV. CO., INC 2025 Airport Loop Kerrville, TX 78028</p> </div> <p>Model 852.3 ENG. T.T. 852.3 Removed ENG. Model #2 TO-360-A386, SNL-26806 -51A, ENG. removed do to Flat Cam, ENG. Removed out of Mccawey N9146Q, SN 24-3384. ENG. sent to Fire W/11 Forward. David Bohner 2804926 ACP</p>



"Bottom End Overhaul"

Date: 09-26-05 Tach: 852.3 Reg. No.: N9146Q
 Eng. Model: IO-360-A3B6 Eng. S/N: L-26806-51A
 TTE: 852.3

Completed engine reassembly this date in reference with Lycoming overhaul manual 60294-7, parts manual PC-406-1, and all applicable service bulletins, letters and instructions using new main and rod bearings, connecting rod bolts and nuts, counterweight plates, clips, and rollers, stressed fasteners, and seals and gaskets as required. All internal steel parts magnetic particle inspected. Crankshaft and crankcase overhauled/certified, connecting rods align bored, counterweights reconditioned, and Lycoming factory new camshaft installed. Firewall Forward Technologies, Inc. Horsepower Plus pistons and associated hardware installed per STC SE02741NM. FAA form 337 filed this date. Cylinders repaired/certified. Propeller governor and oil cooler overhauled/certified. Maintenance release tags provided. Remaining accessories reinstalled as received. C/W A.D. 96-09-10, oil pump impellers, by para. (c1-2). No further action necessary. C/W A.D. 2002-26-01, fuel injector lines, by para. (c). Next due, see A.D.. Engine dynamometer run in accordance with Lycoming's overhaul manual and is approved for return to service. For complete details concerning this repair, refer to work order #2715-06-2005 on file at this facility. END

Thomas E. Harvey
 A&P524088369

Firewall Forward
 Loveland, CO 80538

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10-17-05	852.3		852.3	Reinstalled eng. after Bottom End overhaul by Firewall Forward w/o ne 2715-06-2005. Installed all New bases as listed, 2ea. 156F001-8D-0204 oil cooler base, 1ea. 912040-503 oil pressure, 1ea. 912040-501 fuel pressure, 1ea. 111417-68-0184 fuel line. Installed all new eng. mount Isolators PW T-9613-40. Installed 4ea. AV7-44 Isolator bolts and installed new Eng. mount bolts to Firewall 2ea. AV4-378 and 1ea. AV4-15H. Installed new alternator belt PW 37819903-376 and oil quick draw PW 371000-46. Serviced eng. with 80wt. Aeroshell 50wt. Straight Mineral oil. Test flow plate per Firewall Forward Break-in sheet checked eng. for leaks. No leaks. Dave D. Johnson 28092716 AJP PMSA 1993

DATE 2005	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
11-19	862.4	#	862.4	DRENDED OIL. FILLED WITH 7 QTS. AEROSHELL 50WT. STRAIGHT MINERAL OIL. INSTALLED NEW CH48110 OIL FILTER + CUT OPEN OLD OIL FILTER FOR INSPECTION. NO METAL FOUND. CAM ENGINE + CHECKED FOR LEAKS. NO LEAKS FOUND. <i>JEFF TRANTON HEINER, OWNER</i>
4-16 2006	888.5		888.5	DRENDED OIL. FILLED w/ 8 QTS. AEROSHELL 50WT. STRAIGHT MINERAL OIL. INSTALLED NEW CH48110 OIL FILTER + CUT OPEN OLD OIL FILTER FOR INSPECTION. NO METAL FOUND. CAM ENGINE + CHECKED FOR LEAKS. NO LEAKS FOUND. <i>JEFF TRANTON HEINER, OWNER</i>

JEFF TRANTON HEINER, OWNER

ASA 1993

DATE 19__	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
10-31-06	919.3	—	919.3	Oil Annual Inspection per <i>Murray Airplane Co. manual</i> - Annual Inspection Guide. Checked compression #1, #2, #3, #4, #5, #6, #7, #8, #9, #10. Checked Igniter Timing TO eng. Changed oil and filter. Serviced eng. with <i>Eng.</i> Bereshell 100WT and CH48110-1 Filter. Lubricated all eng. controls. Inspected exhaust system, starter and alternator. Cleaned and gapped spark plugs. Cleaned and inspected fuel injector nozzles - <i>ChA. D. O. 2-26-04</i> , inspected fuel injector lines and support clamps, next due at <i>Hobby Time 10/19/03</i> or date 10-31. A.D. 06-18-06 crankshaft removal. N/A by <i>ENG. S/N. A.D. 06-20-09</i> crankshaft removal. N/A by <i>ENG. S/N. Washed and</i>

ASA 1993

DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
3-24-7	941.7		941.7	<p>ran up eng. No leaks noted at this time.</p> <p>DATE 10-31-06 TIME IN SERVICE 919.3 A/S CHECKED THRU 06-21 CERTIFY THAT THIS ENGS. HAS BEEN INSPECTED IN ACCORDANCE WITH A FAA/FAA/FAA INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION. SIGNED: <u>[Signature]</u> NUMBER: <u>2800926 TAA</u></p> <p>DRAINED OIL. FILLED w/ 7 QTS. AEROSHELL</p> <p>100 PLUS. INSTALLED NEW CH48/110 OIL FILTER</p> <p>+ CUT OPEN OLD OIL FILTER FOR INSPECTION. NO METAL FOUND. RAN ENGINE + CHECKED FOR LEAKS. NO LEAKS FOUND.</p> <p><u>[Signature]</u> JEFF PATENWEINER, OWNER</p>

DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
10-19-07	960.0		960.0	<p>Completed Annual Inspection ZAV Mooney Airplane Co. 100hr Annual inspection guide. Compression check - #1-78, #2-72, #3-79, #4-77. Changed oil + filter</p> <p>Service eng. with 8gts Aeroshell 100 plus + CH48/110 filter. Cleaned, gapped, rotated spark plugs. Checked Mag. timing. Inspected fuel injector nozzles, starter actuator, exhaust system. Installed new Aero Accessories Valve Pump in AA3215AA SN 48708. C/w AD 02-26-01, inspection of fuel injector lines and support clamps. Next due at 1060 hrs or annual. Washed and ran engine.</p> <p>Lubed all engine controls</p> <p>Continued</p>

DATE 21st 8	RECORDING TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
	960.0		960.0	Continued from previous page. DATE 10-19-07. THIS SERVICE 960.0 AD'S CHECKED THRU 07-20 I CERTIFY THAT THIS CHAIR HAS BEEN INSPECTED IN ACCORDANCE WITH A MAJOR INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION. SIGNED: <u>Robert J. Johnson</u> NUMBER: <u>28022910</u> <u>AVT</u>
	979.0		979.0	DERIVED OIL. FILLED W/ 8 QTS. AEROSHELL 100 PLUS. INSTALLED NEW CH48110 OIL FILTER + CUT OPEN OLD OIL FILTER FOR INSPECTION. NO METAL FOUND. RAN ENGINE & CHECKED FOR LEAKS. NO LEAKS. D.J. SEF PATENTHEIMER, OWNER

DATE 19	RECORDING TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
10-5-08	1003.9		1003.9	1/2 ANNUAL INSPECTION OF OILS CHECKED COMPRESSOR #1 70/80 #2 74/80 #3 78/80 #4 78/80 #5 CHANGED OIL AND FILTER. SERVICED OIL WITH BPT. HENSHALL 100 PLUS AND CH48110-1 FILTER. INSTALLED ALL NEW BOM 38E SPARK PLUGS. LUBRICATED ALL OILS. INSPECTED EXHAUST SYSTEM, STARTER AND DISTRIBUTOR. CLEANED AND INSPECTED FUEL INJECTOR NO 222 lbs. W.A.D. 08-14-07. TSP. FUEL INJECTOR LINES AND SUPPORT CLAMPS. NEXT DUE AT HISS 1103.9 OR DATE 08-07. REINSTALLED RT MAGNETO SN 95120030 AND LT MAGNETO SN 95110021 AFTER 500H. INSPECTION. MAG'S INSP. BY A. S. I. W/O # 422018. NEXT PAGE →

DATE 2009	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
4-18	1032.7		1032.7	DATE 10-25-08 IT IN SERVICE 1003.9 AD'S CHECKED THRU 08-20 I CERTIFY THAT THIS ENGIN HAS BEEN INSPECTED IN ACCORDANCE WITH A FAVORABLE INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION. SIGNED: <u>[Signature]</u> NUMBER: 280964459 DRAINED OIL. FILLED w/ 8 QTS. AVROSHELL 100 PLUS. INSTALLED NEW C/H 4P 110 OIL FILTER & CUT OPEN OLD FILTER FOR INSPECTION. NO METAL FOUND. LAM ENGINE & CHECKED FOR LEAKS. NO LEAKS. <u>[Signature]</u> JPF PRACTITIONER, OWNER
11-13-09	1052.3			DATE 11-13-09 IT IN SERVICE 1052.3 AD'S CHECKED THRU 2007-22 I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A FAVORABLE INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION. SIGNED: <u>[Signature]</u> NUMBER: 280964459 Annual inspection. Checked comp #1, 7780 & 781 # 781 & 782 changed oil & filter serviced with 8 qts Avroshell 100 Plus. cleaned spark plugs, also AD 09-02-03 W/A by serial DATE of Repair before repair-06. inspected Exhaust system, starter, alternator, lubricated control cable Rod ends - washed & ran engine Ronnie Kerner 280964459

DATE	RECORDING TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
3-1-11	1000.9			This Engine has been inspected IAW an annual inspection and has been found Airworthy for this time.
				Compressor check #2 7/7/80 #2 7/8/80 #3 7/9/80 #4 7/7/80
				CLW AD 08-14-07
				Changed oil & Filter, Engine run
				Leak check OK, Engine ops check
				OK
				Book done 03161051 Air IA


DATE _____



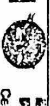

BROADIE'S AIRCRAFT
 Meacham International Airport
 200 Commander Road, Hangar 2N, Fort Worth, Texas 76106
 817-626-1532 www.BroadiesAircraft.com

SUPPLEMENTAL LOG BOOK ENTRY

Aircraft Registration # N9146Q S/N: 24-3384
 Engine: Lycoming IO-360-A386 S/N: L-268906-51A H/OBBS 1121.6
 Description of work performed: Engine

Removed starter from engine. Installed a new starter P/N MHB-4016R, S/N J030795. Drained engine oil and removed oil filter. Cut old filter and inspected element, no abnormal debris was found. Serviced with new Aeroshell 100W and installed a new filter P/N C-148110-1. Operational check was good with no leaks noted. All work was done IAW Mooney and Lycoming service instructions and the engine is approved for return to service in regards to the work performed.

Signature: 
 Repair Station # WF-1R582K
 Date: 9/28/2011

    Repair Order # 181979

DATE

19



BROADIE'S AIRCRAFT
 Meacham International Airport
 200 Commander Road, Hangar 2N, Fort Worth, Texas 76106
 817-626-1532 www.BroadiesAircraft.com

SUPPLEMENTAL LOG BOOK ENTRY

Aircraft Registration # N9146Q S/N: 24-3384 TSN 1167.7
 Engine: Lycoming IO-360-A386 S/N: L-26806-51A HOBBS 1167.7
 Description of work performed: Engine

Completed an annual inspection using the Mooney Inspection Checklist. Drained engine oil and removed oil filter. Cut open old filter and inspected element and found no abnormal debris. Serviced with Aeroshell 100W and installed new filter P/N CH48110-1. Compression check: 1) 76, 2) 74, 3) 76, 4) 78, using 80 psi reference. Pulled spark plugs, cleaned, gapped, tested and reinstalled plugs. Pulled fuel injectors, cleaned and reinstalled. Installed hardware that was missing for #3 cylinder baffle. Sealed air gaps in baffle around oil cooler with RTV for better cooling efficiency. Resecured oil filter neck that was loose and safetied. Secured alternator wiring that was chaffing. Complied with AD2011-26-04, fuel lines by inspection, no discrepancies found. Tailpipe had several corrosion holes in it, removed tail pipe and installed

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tail

DATE

19

a new tail pipe P/N 630119-501-VP, batch# 3027720-194585. Secured drain line at firewall that was chaffing. Installed a new induction air filter P/N CP1174. Post work operational check was good with no leaks noted. All work was done IAW Mooney and Lycoming service instructions and the aircraft is approved for return to service in regards to the work performed.

Signature:

Repair Station # WF1582K
 Date: 3/15/2012



Repair Order # 182096

BROADIE'S AIRCRAFT, INC.

Cham Field, Loc. 2N
 200 Commander Road, Fort Worth, TX 76106
 FAA Repair Station #WF1582K
 Airframe Class 3
 Weight Class 1

Total Flight Hours 9602.81 No. 0.0 W
 Conditioned

under repair
 - in in -
 a with engine/aircraft sign. tail. aircraft. 1

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BROADIE'S AIRCRAFT
 Meacham International Airport
 200 Commander Road, Hangar 2N, Fort Worth, Texas 76106
 817-626-1532 www.BroadiesAircraft.com

SUPPLEMENTAL LOG BOOK ENTRY

Aircraft Registration # N9146Q S/N: 24-3384 TSN 1167.7
 Engine Lycoming IO-360-A3B6 S/N: L-26806-51A HOBBS 1167.7
 Description of work performed: Engine
 Back flushed fuel servo and installed a new gasket P/N 2577258 on fuel servo plug. Operational check was good. Adjusted mixture to achieve a 25 FPM rise. All work was done IAW Lycoming service instructions and the aircraft is approved for return to service in regards to the work performed.

Signature: 
 Repair Station # WF1R582K
 Date: 3/23/2012
 Repair Order # 182096



1 of Repair

N#: N9146Q
 ETT: 1257.5
 Date: April 15, 2013
 Tach: 1257.5

Make: Lycoming
 Model: IO-360-A3B6
 Serial#: L-26806-51A
 TSMOH: 405.2

- Performed an Annual Inspection.
- Performed an engine operational ground check including to full power.
- Performed engine compression check on all cylinders.
- Performed oil and filter change.
- Removed and replaced heat muff cooling scat hose with new.
- Removed and replaced muffler cabin heat scat hose with new.
- Complied with AD2011-26-04, fuel line by inspection, no discrepancies found. Next due @ 100 hours TIS, at each engine overhaul, and after any maintenance has been done on the engine where any clamp (or clamps) on a fuel injector line (or lines) has been disconnected, moved, or loosened.

This engine has been inspected in accordance with an Annual Inspection and was found to be in an airworthy condition. For work performed this engine is approved for return to service.

Travis Tatum

TRAVIS TATUM
 IA3211139AP

DATE	RECORDING TACH TIME	TODAY'S FLIGHT

121 Aviation Dr. • Bldg 4002 • Santa Fe NM 87507
 SANTA FE
AERO SERVICES
 Engine Log

Date: 9-4-2013 Tach: 197 Reg. No.: N9146Q
 Model: IO-360-A3B6 Eng. S/N: L-26806-51A

Work accomplished at Santa Fe Aero Services, LLC. Reference work order #4205

DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME SERV

Description of Inspections, Tests, Repairs and Alterations

Completed engine propeller strike inspection this date in reference with Lycoming overhaul manual 60294-7, parts manual PC-406-1, and service bulletins 533B, 240W. All internal steel parts magnetic particle inspected. Crankcase zygio and dimensionally inspected, counterweights reconditioned per Lycoming S.I. 1143C, and camshaft and lifters reconditioned/certified. Engine assembled with new: connecting rod bolts and nuts; front main, intermediate, and connecting rod bearings; crankshaft blade bushings; crankshaft gear retaining bolt and lockplate; counterweight roller, plates and clips; and seals and gaskets. Engine accessories were overhauled as follows: propeller governor (new) magnetos, and alternator. Cylinders and all other accessories re-installed as received. Maintenance release tags and A/D compliance provided. Engine dynamometer tested in accordance with Lycoming's overhaul manual and is approved for return to service. Repair Order #9824. End.

Date: 9-4-2013 Tach: 197 Reg. No.: N9146Q
 Eng. Model: IO-360-A3B6 Eng. S/N: L-26806-51A

Thomas E. Harvey
 The New Firewall Forward
 Loveland, CO 80538



N9146Q

SANTA FE
AERO SERVICES

Engine Log

121 Aviation Dr. • Bldg 4002 • Santa Fe NM 87507

Model: IO 360-AYR6 S/N: L-26906-51A

Date: 2/20/2014
Market: LYCOMING
TTS: 1235.6

INSPECTED ENGINE TO AIRCRAFT MODEL IO-360-AYR6 S/N L-26906-51A. THE ENGINE AND PROPULSION MAIN BEAR DOWN REPAIR ACCOMPLISHED AT BIRMINGHAM, AL. THE ENGINE CAN BE PUT UNDER REPAIR ORDER 982. INSTALLED REPAIRABLE INTEREST PARTS ARE: RISKER P/N 69043431, AIR RESER P/N 69043432, LT RISKER P/N 69043432, LT RISKER P/N 69043431, AND CYRILLIC L110. WORKS PERFORMED BY: AERONAUTICAL ENGINEERS INC. REPAIR STATION, (A128702) JOB 7122. ENGINE SWAY BEARING: TAIL WIRE P/N 69043431, WORKS PERFORMED BY KENNELLY AERONAUTICAL ENGINEERS INC. REPAIR STATION, (A128702) JOB 7122. AIR OPERATIONAL AND LEAK CHECK SATISFACTORY.

Aeronautics
Ken Kelly
167219361A

Work accomplished at Santa Fe Aero Services, LLC. Reference work order #4205

Ind Alterations	Technical Number of Technician or Repair	DATE	RECORDING TIME	TODAY'S FLIGHT	TOTAL TIME
		19__			

N9146Q

SANTA FE
AERO SERVICES

Engine Log

121 Aviation Dr. • Bldg 4002 • Santa Fe NM 87507

Model: IO 360-AYR6 S/N: L-26906-51A

Date: 2/20/2014
Market: LYCOMING
TTS: 1235.6

INSPECTED ENGINE TO AIRCRAFT MODEL IO-360-AYR6 S/N L-26906-51A. THE ENGINE AND PROPULSION MAIN BEAR DOWN REPAIR ACCOMPLISHED AT BIRMINGHAM, AL. THE ENGINE CAN BE PUT UNDER REPAIR ORDER 982. INSTALLED REPAIRABLE INTEREST PARTS ARE: RISKER P/N 69043431, AIR RESER P/N 69043432, LT RISKER P/N 69043432, LT RISKER P/N 69043431, AND CYRILLIC L110. WORKS PERFORMED BY: AERONAUTICAL ENGINEERS INC. REPAIR STATION, (A128702) JOB 7122. ENGINE SWAY BEARING: TAIL WIRE P/N 69043431, WORKS PERFORMED BY KENNELLY AERONAUTICAL ENGINEERS INC. REPAIR STATION, (A128702) JOB 7122. AIR OPERATIONAL AND LEAK CHECK SATISFACTORY.

Aeronautics
Ken Kelly
167219361A

Work accomplished at Santa Fe Aero Services, LLC. Reference work order #4205

DATE **TOTAL TIME IN SERVICE** **Reference of Major Repairs and Major Alterations To FAA Form ACA-337 by Date, or to the Work Order by Number and the Approving Agency**

Date 5-3-2014 N9146Q TACH 1317.3 TT 1317.3
 Drained oil, removed and replaced oil filter CH48110-1, Serviced engine with Aeroshell 100 plus. Cleaned, gapped, tested and rotated spark plugs. Compression results: 1)70 2)76 3) 73 4)77 C/W AD2011-26-04 Fuel injector lines, no defects found, next due 1417.3 tach time. I certify this Engine has been Insp IAW annual Insp and was determined to be in an airworthy condition.

James Young
 A&P2669238

DATE **Reference of Major Repairs and Major Alterations To**

Date 11-8-2014 N9146Q TACH 1420.9 TT 1420.9
 Drained oil, removed and replaced oil filter CH48110-1, Serviced engine with Aeroshell 100 plus. Cleaned, gapped, tested, rotated spark plug and replaced tow spark plugs. Compression results: 1)70 2)72 3) 70 4)72 C/W AD2011-26-04 Fuel injector lines, no defects found, next due 1520 tach time. I certify this Engine has been Insp IAW a 100Hr Insp and was determined to be in an airworthy condition.

James Young
 A&P2669238

Date 9-4-2014 N9146Q TACH 1391.6
 Drained oil, installed new CH48110-1 oil filter and serviced with 8 qts Aeroshell 100 Plus. Ground run no leaks at this time.

James Young
 A&P2669238

Date 2-21-2015 N9146Q TACH 1480.2
 Drained oil, installed new CH48110-1 oil filter and serviced with 8 qts Aeroshell 100 Plus. Ground run no leaks at this time.

James Young
 A&P2669238

DATE

Date 4-5-2015 N9146Q TACH 1505.5 TT 1505.5

Drained oil, removed and replaced oil filter CH48110-1. Serviced engine with Aeroshell 100 plus. Cleaned, gapped, tested and rotated spark plugs. Replaced all fuel injector line clamps. Cleaned fuel injectors. Removed #2 cyl to replace cyl base o-ring and reinstalled using new seals and gaskets. All work done IWA Lyscoming Overhaul Manual. Ground run no leaks at this time. Compression results: 1) 71 2) 74 3) 78 4) 76. I certify the engine has been insp IAW an Annual Insp and was determined to be in good working condition.

James Young
26692381A

Date 5/21/2015 N9146Q Tach 1517.9

Removed and inspected jet mag, replaced points and reinstalled and timed mag to engine. Ground run op's checked good.

James Young
A&P2669238

OS&A 1993

DATE	A.D. NUMBER	TOTAL TIME IN SERVICE	Airworthiness Directives Chronological Listing of Compliance and Method of Compliance
5-11-96	93-02-05	6.0	Fuel line inspection
1-3-00	93-01-05	518.5	INSPECTED fuel injector lines + support clamps. Dave Bolwin 55332093 HHP
1-3-00	98-23-01	518.5	N/A by SA of vacuum pump. Dave Bolwin 55332093 HHP
1-01-01	93-01-05	589.6	INSPECTED fuel injector lines + support clamps. Dave Bolwin 55332093 HHP
3-4-02	93-02-05	656.8	INSPECTED fuel injector lines + support clamps. Dave Bolwin 55332093 HHP
4-16-03	03-26-01	724.1	INSPE fuel injector lines + support clamps. Next Due at Annual. Dave Bolwin 55332093 HHP
5-19-05	02-26-01	852.3	INSPE FUEL INJECTOR NOZZLE LINES & CLAMPS. Dave Bolwin 55332093 HHP
10-31-06	02-26-01	919.3	INSPE FUEL INJECTOR LINES + support clamps. Dave Bolwin 55332093 HHP
10-31-07	03-26-01	960.0	INSPE fuel injector lines + support clamps. Dave Bolwin 55332093 HHP
10-15-08	14-07	1003.9	INSPE fuel inj. lines + support clamps. Dave Bolwin 55332093 HHP

Log Book closed 8/3/15

OS&A 1993



652 Oliver Street
Williamsport, PA 17701 U.S.A.
570/323-6181

ENGINE LOG AND MAINTENANCE RECORD

RECORD OF LYCOMING IO-360-ARCL L-20806-51A
MAKE MODEL SERIAL

FROM 8/13 20 15 TO _____ 20 _____
DETAILING TIME FROM _____ HOURS TO _____ HOURS

SSP-1872-1

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October 1994

ENGINE DESCRIPTION

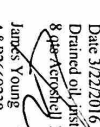
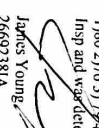
Mfg.	LYCOMING	Place	Williamsport, PA 17701	Date	
Type		Model		Serial No.	
Rated H.P.		Max. H.P.		Weight (Dry)	
Rated R.P.M.		Max. R.P.M.		Oil Pressure	
Bore		Stroke		Displacement	Cu. In.
Compression Ratio		Supercharger Ratio			
Reduction Gear Ratio					
Propeller		Hub Design		Hub Serial No.	
Blade Design		Blade Serial No.		Blade Serial No.	
Max. Hub H.P.		Max. Blade H.P.			
Pitch		Diameter		Length	
Name					
Address					

ENGINE LOG

Date	Time		Signature	License Number
	Hrs	Mi		
Date 8-13-2015	N9146Q	TACH 1568.2		
D drained oik installed new CH48110-1 oil filter and serviced with 8 qt Aeroshell 150. Ground run no leaks at this time.				
James Young				
A&P2669238				
Page Total	All Repair Data Must Bear the Endorsement of a			
Brought Forward	Certificated Mechanic, and his Rating and			
Total to Date	Certificate Number MUST be Shown.			

ENGINE LOG

Date	Signature	License Number	Serial No.
Date 10-10-2015	N9146Q	TACH 1600.4	TT 1600.4
D drained oil, removed and replaced oil filter CI48110-1. Serviced engine with Aeroshell 100 mineral. Cleaned, gapped, tested and rotated spark plug. Removed STC SE02741NML. Installed 4 overhauled cylinders assy from J&J Air Parts sec yellow tags. Installed cylinders with new seals and gaskets. All work done IAW Lycoming Direct Drive Overhaul Manual. C/W AD2015-19-07 Fuel injector lines, replaced all big clamps, part due 1700.4 tach time. I certify this Engine has been Insp IAW a 100HF Insp and was determined to be in an airworthy condition.			
James Young			
A&P2669238			
Page Total	All Repair Data Must Bear the Endorsement of a		
Brought Forward	Certificated Mechanic, and his Rating and		
Total to Date	Certificate Number MUST be Shown.		

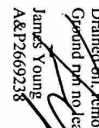
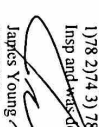
Date	Time		Signature	License Number
	Hrs	Min		
Date 3/22/2016			 James Young A&P2669238	
Date 4/9/2016			 James Young 26692381A	

il No. _____

N9146Q TACH 1689.9
 Drained oil, installed new CH48110-1 oil filter and serviced with 8 qt Aeroshell 100. Ground run no leaks at this time.

N9146Q TACH 1701.2 TT 1701.2
 Cleaned, gapped, tested and rotated spark plugs. Ground run no leaks at this time. Compression results: 1) 80 2) 76 3) 74 1) 79. Tightened oil return line clamps. I certify this Engine has been Insp IAW an Annual Insp and was determined to be in an airworthy condition.

James Young
 26692381A

Date	Time		Signature	License Number
	Hr	Min		
Date 8-13-2016			 James Young A&P2669238	
Date 4/20/2017			 James Young 26692381A	

N9146Q TACH 1745.7
 Drained oil, removed and replaced oil filter CH48110-1. Serviced engine with Aeroshell 100 Plus. Ground run no leaks at this time.

N9146Q TACH 1802.9 TT 1802.9
 Cleaned, gapped, tested and rotated spark plugs. Ground run no leaks at this time. Compression results: 1) 78 2) 74 3) 78 1) 77. Tightened oil return line clamps. I certify this Engine has been Insp IAW an Annual Insp and was determined to be in an airworthy condition.

James Young
 26692381A

Total to Date _____ Certificate Number MUST be Shown. _____

ENGINE LOG

Serial No. _____

Date 10-28-2017 N9146Q TACH 1913.2 TT 1913.2
 Drained oil, removed and replaced oil filter CH48110-1. Serviced engine with Acroshell W100 Plus.
 Cleaned, gapped, tested and rotated spark plug and replaced two spark plugs. C/W AD2015-19-07
 Fuel injector lips, next due 12023.2 tach time. Replaced alternator belt and #4 ex push rod. I certify
 this Engine has been Insp IAW a 100Hr Insp and was determined to be in an airworthy condition.

Jarvis Young
 A&P2669238

4-CH-2018-2018
 Date ~~4-24-2018~~ N9146Q TACH 2012.2 TT 2012.2
 Drained oil, replaced oil filter and serviced with Acroshell W100 Plus.
 Cleaned, gapped, tested and rotated spark plugs. Ground run no leaks at this time. Compression results:
 1)77 2)79 3) 74 4)78. Tighten oil return line clamps. I certify this Engine has been Insp IAW an Annual
 Insp and was determined to be in an airworthy condition.

Jarvis Young
 2669238/A

Date	Time		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
	Hrs	Min			
Page Total					
Brought Forward					
Total to Date					

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

ENGINE LOG

Serial No. _____

Date

H

2019
Date 4/20/~~2018~~

N9146Q

TACH 2100.9

TT 2100.9

License
Number

Drained oil, replaced oil filter and serviced with Aeroshell W100 Plus.
Cleaned, gapped, tested and rotated spark plugs. Installed 3 new plugs
Ground run no leaks at this time. Compression results:
1)77 2)79 3) 74 4)78. Installed new starter 149-NL/NC. I certify this
Engine has been Insp L&W an Annual Insp and was determined to be
in an airworthy condition.


James Young
26692381A

Page Total	
Brought Forward	
Total to Date	

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

MAINTENANCE RELEASE
LYCOMING

CYL. ASSY.

MANUFACTURER

NAME

MODEL No.

12-360

PART No. 12993

SERIAL No.

NA

THE COMPONENT IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH CURRENT REGULATIONS OF THE FEDERAL AVIATION ADMINISTRATION AND IS APPROVED FOR RETURN TO SERVICE.

"PERTINENT DETAILS OF THE REPAIR ARE ON FILE AT THIS REPAIR STATION UNDER

WORK ORDER No.

007

73003

SIGNED

[Handwritten Signature]

DATE

JUL 15 2015

FOR: J & J AIR PARTS, INC. REPAIR STATION No. JE2R921K

