

N144BY

ENGINE MAINTENANCE RECORDS



WESTERN
Skyways
INC.

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JB Aircraft Engines
203 Challenger Dr.
Sebring Florida 33870

1/2/2025 Engine IO-360-A1B6D S/N L-16193-51A Continue time since overhaul this date. Shock Load Inspection with reference to AD#2004-10-14 C paragraphs J and Lycoming MSB 475-C, MSB 533B and crankshaft and gear train repair and inspection with further reference to Lycoming MM-1 for IO-360, SB 201, SB 240, Engine repair using procedures out-lined in applicable Lycoming service manual 60294-7 and MSB533B, SSP-1776 and all related Lycoming Published Info: (no defects are evident at this time) parts: misc. hardware, seals and gaskets replaced as required. 1ea SL13792 crankshaft nose seal, (Crankshaft IO-360 series Aircraft Spec Serv.) overhaul) see 8130-3, 4ea SL11020AM.06 main bearings, 2ea SL13884AM.06 front main bearings, 1ea AN8-14A crankshaft gear bolt, 4ea SL14820 snap ring, 4ea 71907A plate, 2ea 72797, 2ea 14W21696 rollers, 8ea SL13212AM.03 rod bearing, 6ea STD2180 drain hose, 8ea SL75060 rod bolt, 8ea SL12186 rod nut, 4ea 75118 exhaust gasket, 10-682555-11 quality aircraft accessories inc. (see 8130-3). 2ea KA10-400574 capacitor, The lycoming cylinders (marked chrome from previous overhaul) were leak checked and honed for a ring finish and new rings were installed: 4ea SL5401SC ring set, SL75441-1 gasket kit, CH48103, 4ea SL16266-10-75 steel inj clamps, 6ea SL16266-10-13 steel clamp, It is the responsibility of the installing mechanic to service the engine with oil, install all serviceable accessories and installation parts including fuel system, ignition system and all fuel and oil hoses. Ground testing and first flight information was provided with this log entry. The work listed was performed and inspected in accordance with current FAA regulations by,

James N Brod Jr. A&P 3016060 IA  1/2/2025

REG: N144BY
M/N: M20J
S/N: 24-0034



DATE: 4/10/2025
TACH: 4456.95
HOBBS:
ETTSOH: 317.18

COMPLETED ENGINE MOUNT INSTALL AFTER AWI REPAIR AND ENGINE INSTALL AFTER JB AIRCRAFT ENGINE REPAIR DATED 9/5/2025, ALSO COMPLETED A 100HR INSPECTION/ANNUAL ON ENGINE IAW MOONEY AIRPLANE COMPANY, INC. 100-HR/ANNUAL MAINTENANCE INSPECTION GUIDE & FAR 43 APPENDIX D.


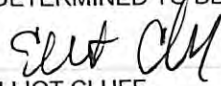

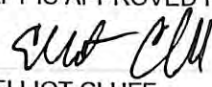

1. REMOVE TOP & BOTTOM COWLING, DRAINED THE OIL & REMOVED THE OIL SCREEN & TO CHECK FOR METAL PARTICLE, NONE FOUND AT THIS TIME
2. SERVICE THE ENGINE WITH 7QRTS OF AeroShell 100, MINERAL OIL INSTALLED OIL SCREEN BACK AND SAFE WIRED.
3. REMOVED ALL SPARK PLUGS, CLEANED, INSPECTED & REINSTALLED USING ANTI-SEIZE, TORQUED TO 35FP, CLEAN SPARK PLUGS LEADS BEFORE INSTALLED.
9. COMPLETED EXHAUST SYSTEM INSTALL AFTERAWI REPAIR AND IT WAS PSI TESTED AND FOUND WITH NO LEAKS AT THIS TIME, INTAKE SYSTEM INSPECT ALL THE VALVE COVERS JASKETS & SCREWS, VALVE PUSHRODS HOSING'S GASKETS. FOUND NO LEAKS THIS TIME.
4. COMPRESSIONS AS FOLLOWS, #1 77/80, #2 76/80, #3 78/80, #4 74/80.
5. VERIFIED MAGNETO TO ENGINE TIMING.
6. WASHED ENGINE WITH VARSOL & GROUND RAN NO LEAKS FOUND AT THIS TIME.

I CERTIFY THIS ENGINE HAS BEEN INSPECTED IAW AN 100HR INSPECTION AND WAS FOUND TO BE IN AN AIRWORTHY CONDITION

SIGNED  Luis Rosa A&P 3544884

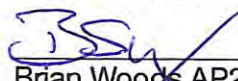
I CERTIFY THIS ENGINE HAS BEEN INSPECTED IAW AN ANNUAL INSPECTION AND WAS FOUND TO BE IN AN AIRWORTHY CONDITION

SIGNED  David E. Blake A&P 3492152 I/A

DATE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED -- SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
	McCluff Aviation Llc 545 McKinnon Road Clarkdale AZ 86324 480-510-2054	Make: LYCOMING Model: IO-360-A1B6D Tail: N144BY S/N: L-16193-51A
Hours: 4363.29 TSMOH 223.53 TIME SINCE REPAIR 0.0		
1. INSTALLED ENGINE AFTER REPAIR BY MENA AIRCRAFT ENGINES WO# 21F-2384R ON N144BY. 2. SERVICED WITH 8 QUARTS PHILLIPS 20-50 TYPE M OIL. 3. INSPECTED FUEL INLET SCREEN, NO DEBRIS NOTED, INSTALLED USING NEW ORING. 4. COMPLIED WITH AN ANNUAL INSPECTION PER PART 43 APPENDIX D. 5. PERFORMED FULL POWER RUN UP AND LEAK CHECK NO LEAKS OR DEFECTS NOTED. 6. ALL AD'S RESEARCHED THROUGH BI-WEEKLY 2024-02. 7. I CERTIFY THAT THIS POWERPLANT WAS INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE AIRWORTHY AT THIS DATE.		
Signed:  Name: ELLIOT CLUFF		Cert: AP601444958IA Date: 02/02/2024
	McCluff Aviation Llc 545 McKinnon Road Clarkdale AZ 86324 480-510-2054	Make: LYCOMING Model: IO-360-A1B6D Tail: N144BY S/N: L-16193-51A
Hours: 4378.66 TSMOH 239.6		
1. COMPLIED WITH MENA AIRCRAFT ENGINES 15-18 HOUR CHECKLIST. 2. DRAINED OIL, REMOVED FILTER CUT AND INSPECTED, REMOVED SCREEN AND INSPECTED NO DEFECTS NOTED. 3. INSTALLED NEW AA48103-1 FILTER AND 8 QUARTS PHILLIPS 20W-50 VICTORY OIL. 4. PERFORMED RUN-UP AND LEAK CHECK NO DEFECTS NOTED. 5. AIRCRAFT IS APPROVED FOR RETURN TO SERVICE.		
Signed:  Name: ELLIOT CLUFF		Cert: AP601444958IA Date: 04/16/2024
5/22/24	4403.21	Drained oil, Removed Filter cut & inspected. Removed Screen & inspected Installed New ^{AA48} 103-2 Filter and 7 Quarts of Phillips 20W-50 ^{Victory} oil
6/5/24	4426.18	Drained Oil, added Quarts of Phillips 20W-50 Victory oil
6/16/24	4456.57	Drained oil, Removed Filter, cut & inspected. Removed Screen & inspected Installed New ^{AA48} 103-2 Filter and 7 Quarts of Phillips ^{20W-50} Victory oil
7/18/24	4456.94	Removed this engine from the A/C and sent out for an Iron inspection due to prop strike.
 20351395		

[10/02/21 TACH: 4212.77 **N144BY** TTENG: 4212.77 S/N L-16193-51A

Installed this engine at this time, after repair by Mena Aircraft engines CRS S9QR340N. Oil cooler was flushed. Serviced with XC20W50 and primed. Engine ground run and all parameters checked. No leaks. Above work approved for return to service.
Aircraft ready for test flight.


Brian Woods AP2720395

10/31/21 TACH: 4247.86 **N144BY** S/N L-16193-51A

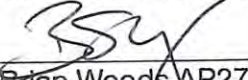
Ran engine for oil change. Drained oil and took sample. Replaced filter with new. Cut old filter for inspection. Serviced with 20W50 Phillips mineral. Ran for leak check. Above work approved for return to service.


Brian Woods AP2720395

E. R. Fail ATP 3478494

12/14/21 TACH: 4248.99 **N144BY** TSMOH: 109.39 S/N L-16193-51A

Complied with a 100 hour inspection at this time. Ran for operational check. No oil change at this time. Compressions as follows: 1) 78, 2) 77, 3) 77 4) 78. Cleaned and gapped spark plugs. AD 2015-19-07 fuel injector lines/clamps next due by TACH 4322.77. Installed Reiff oil sump preheat, per instructions. This being a minor alteration, no 337 needed. Checked bi-weekly AD's. I certify this engine has been inspected IAW a 100Hour inspection and is approved for return to service.


Brian Woods AP2720395

Date: 03/11/2022 Hours: 4282.66

Tail#: N144BY

Make: LYCOMING

Model: IO-360

S/N: 24-0034

1. DRAINED OIL, COLLECTED SAMPLE FOR ANALYSIS, REMOVED FILTER, CUT AND INSPECTED, REMOVED SUCTION SCREEN NO DEBRIS OR DEFECTS NOTED.
2. SERVICED WITH 8 QTS PHILLIPS 20W-50 XC OIL AND AA48103-2 FILTER.
3. PERFORMED RUN UP AND LEAK CHECK NO DEFECTS NOTED.
4. APPROVED FOR RETURN TO SERVICE.

Name: Elliot Cluff

Cert: AP601444958

Co: AeroZona Aviation, LLC

Sign: 

DATE

TACH OR
RECORDING
METER
TIME

DESCRIPTION OF WORK PERFORMED --
SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK

Date: 06/10/2022 Hours: 4316.69

Tail#: N144BY

Make: LYCOMING

Model: IO-360

S/N: 24-0034

1. DRAINED OIL, COLLECTED SAMPLE FOR ANALYSIS, REMOVED FILTER, CUT AND INSPECTED, NO DEBRIS OR DEFECTS NOTED.
2. SERVICED WITH 7 QTS PHILLIPS 20W-50 XC OIL AND AA48103-2 FILTER.
3. PERFORMED RUN UP AND LEAK CHECK NO DEFECTS NOTED.
4. APPROVED FOR RETURN TO SERVICE.

Name: Elliot Cluff

Cert: AP601444958

Co: AeroZona Aviation, LLC

Sign: 



McCluff Aviation LLC
545 McKinnon Road
Clarkdale AZ 86324
480-510-2054

Make: Mooney

Model: M20J

Tail: N144BY

S/N: 24-0034

Hours: 4363.13 TSMOH 223.53 IO-360-A1B6D S/N L-16193-51A.

1. REMOVED ENGINE FOR REPAIR DUE TO OIL ANALYST RECOMMENDATION.
2. SHIPPED ENGINE TO MENA AIRCRAFT ENGINES.

Signed: 

Name: ELLIOT CLUFF

Cert: AP601444958IA

Date: 01/15/2023

MENA AIRCRAFT ENGINES, INC. - - FAA CRS#S9QR340N

Date: September 23, 2021 Engine TT: 4212.77 hrs Time Since Major Overhaul: 73.17 hrs
Engine Data: Textron-Lycoming engine model IO-360-A1B6D Serial Number: L-16193-51A
Aircraft Data: Mooney M20J Serial #24-0034 Registration Number: 144BY Year: 1977

WORK PERFORMED: inspected and repaired due to metal contamination in accordance with
Textron-Lycoming manual #60294-7 and Textron-Lycoming parts catalog #PC-406-1.
Following components inspected, repaired, and/or overhauled as described:

COMPONENTS

crankshaft assembly: magnafluxed, inspected, rods M003, mains M006, renitrided, polished, cad plated flange, rebushed, installed counterweights with all new bushings, rollers, plates, and snap rings, dynamically balanced per procedure #98-002, c/w SB475C, and certified by Aircraft Specialties of Tulsa, OK w/o 267393 FAA CRS#DD2R764K. s/n 110050

counterweights(2): p/n 72801 - magnafluxed, inspected, overhauled, rebushed, and certified by Aircraft Specialties of Tulsa, OK w/o 267393 FAA CRS#DD2R764K.

crankshaft drive gear: replaced with new crank drive gear p/n AEL19649 purchased from Aircraft Specialties of Tulsa, OK invoice #208500 dated 09/08/2021.

connecting rods(3): p/n 77450 – magnafluxed per ASTM E1444 and inspected by Barrett Precision Engines of Tulsa, OK w/o 12663-1 FAA CRS#Q8RR231Y.

connecting rod(1 replaced): p/n 77450 – magnafluxed, inspected, rebushed, resized, and certified by Aircraft Specialties of Tulsa, OK w/o 157498 FAA CRS#DD2R764K.

camshaft: replaced with new p/n SL18840 purchased from Aircraft Specialties of Tulsa, OK invoice #208367 dated 08/31/2021.

tach drive shaft: p/n 76121 - magnafluxed, inspected, re-chromed and repaired per dwg#1035, and certified by Aircraft Specialties of Tulsa, OK w/o 267393 FAA CRS#DD2R764K.

hydraulic lifter bodies(8): p/n 72877 – inspected visually, dimensionally, and by magnetic particle method, wear faces ground to FAA approved design specifications, and certified by Aircraft Specialties of Tulsa, OK w/o 267393 FAA CRS#DD2R764K.

internal steel: cleaned, magnafluxed, inspected, and certified by Aircraft Specialties of Tulsa, OK w/o 267494 FAA CRS#DD2R764K.

crankcase: casting #72082, match #517 – cleaned, zygloed, inspected, repaired thrust surface only, and certified by DIVCO of Tulsa, OK w/o 129875 FAA CRS#DB2R762K.

valve rocker arms(8): magnafluxed per ASTM E1444 and inspected by Barrett Precision Engines of Tulsa, OK w/o 12663-2 FAA CRS#Q8RR231Y.

cylinders(4): cleaned, inspected, ground valve seats, refaced valves, lapped and leak checked valves, hone bores to ring finish, fit new piston rings, and assembled with new keepers by Mena Aircraft Engines, Inc. of Mena, AR w/o 2384CYL FAA CRS#S9QR340N.

attaching hardware: blast cleaned i/a/w UPW SP-03 Rev C, bright cadmium plated i/a/w UPW SP-01 Rev B class 3 type II, actual thickness - .00035, hydrogen embrittlement relieve baked @375 +/- 25 degrees F for 3 hours i/a/w UPW SP-17 Rev F and UPW SP-01 Rev B, and certified by United Plating Works of Tulsa, OK w/o 478717 FAA CRS#FA2R813K.

ACCESSORIES

magneto(dual): p/n 10-682555-11, mfg. Bendix – inspected and bench tested by Aircraft Accessories of Tulsa, OK w/o 45772 FAA CRS#RV3R928L

fuel nozzles(4): cleaned, inspected, and bench tested by Mike's A/C Fuel Metering Service of Tulsa, OK w/o 26265 FAA CRS#HK2R875K.

propeller governor: replaced with new McCauley part #DC290D1-T5, s/n 210633, McCauley work order #30969841 of Wichita, KS.

NEW PARTS INSTALLED

Major repair gasket and seal set, crankshaft oil seal, connecting rod bearings M003, connecting rod bolts, connecting rod nuts, front main bearings M006, intermediate and rear bearings M006, crankshaft gear attaching screw p/n AN8-14A and lockplate, silicone valve cover gaskets, cylinder oil drain hoses and clamps, internal crankcase slotted nuts, oil filter p/n 48103-2, push rod housing shroud springs, oil pressure relief ball, crankshaft damper bushings, counterweight bushings, pins, plates, and snap rings, oil filter adapter seal p/n 06B23072, spark plug reach caution labels, crankshaft drive gear, piston rings, magneto drive cushions, vacuum pump adapter cover plate, camshaft, pistons, piston cooling nozzles. supplied new blo-proof exhaust gaskets and new exhaust nuts.

Engine Test Run and Sign-Off: this engine repaired and test run in accordance with current and applicable FAA data and procedures and is approved for return to service.

A.D.'s:

#04-10-14-C1	crank/gear	c/w by inspection and correct installation of new correct screw and lockplate, re-inspect at overhaul or prop strike
#07-04-19 R1	SAP cylinders	n/a by inspection, has Lycoming cylinders
#09-26-12	ECI cylinders	n/a, has Textron-Lycoming cylinders, model n/a
#12-03-06	AFS diaphragm	n/a by inspection and date parameters
#12-09-01	crankshaft	n/a by serial number and date parameters
#15-19-07	fuel inj. lines	c/w by inspection of lines(4), correctly installed, re-inspect at annual, maintenance done, or overhaul
#17-16-11	rod bushings	n/a by inspection and date parameters
#20-25-12	SAP crankshaft	n/a, had Lycoming crankshaft

pertinent details of the repair are on file at this repair station #S9QR340N under **work order#21F-2384** by Mena Aircraft Engines, Inc. of Mena, AR *Robert Smalley*
#2549814 this date September 23, 2021

DATE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED -- SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
		<p>② CENTRAL JET SERVICE, LLC</p> <p>2030 WARREN DR. MARSHALL, TX 76572</p> <p>ENGINE LOG ENTRY</p> <p>DATE: 1-6-2020 MOONEY M20J N144BY S/N 24-0034 TACH: 4143.81 ACFT: N144.81 ENGINE LYCOMING MODEL IO-360-A1B6D S/N L-16193-51A TSMOH: 5.21 ENGINE TT: 4144.81</p> <ol style="list-style-type: none"> 1. COMPLIED WITH 100 HOUR/ANNUAL INSPECTION USING LYCOMING SERVICE MANUAL. 2. DRAINED OIL AND REMOVED OIL FILTER. INSTALLED NEW FILTER P/N CH48103-1 AND SERVICED WITH 8 QUARTS AEROSHELL 100 MINERAL OIL. 3. COMPLIED WITH COMPRESSION TEST AS FOLLOWS: 1) 80/80 2) 80/80 3) 80/80 4) 80/80. 4. INSTALLED 8 P.A. NEW SPARK PLUGS (P/N B18P87). 5. CLEANED, REOILED & REINSTALLED AIR FILTER. 6. REPLACED VACUUM PUMP WITH SERVICEABLE PUMP (211CC) & VACUUM FILTER (RA-D9-18-1). 7. INSTALLED CHL PROBE (3080-58) OPS CHECK GOOD. 8. REPLACED OIL TEMP. PROBE (3080-13) OPS CHECK GOOD. 9. REMOVED GASCOILATOR, CLEANED SCREEN, REINSTALLED. 10. RESAFTED FUEL INJECTOR INTAKE FLANGE BOLTS. 11. CLEANED & PAINTED BATTERY BOX. 12. REMOVED MUFFLER SHROUD/INSPECTED MUFFLER (NO DEFECTS FOUND) REINSTALLED SHROUD. 13. REMOVED, CLEANED, REINSTALLED FUEL INJECTORS. 14. GROUND RAN ENGINE. OIL TEMP, CHL TEMP, OIL PRESSURE & VACUUM GAUGES ALL READ NORMAL OPERATION. AMMETER INDICATED CHARGE. NO OIL LEAKS AT THIS TIME. 15. MAGNETIC DIFFERENTIAL DROP WITHIN LIMITS IN SERVICE MANUAL FOR THIS ENGINE. 16. ALL AIRWORTHINESS DIRECTIVES FOR THIS ENGINE RELEASED AND APPROPRIATELY COMPLIED WITH & AN AD COMPLIANCE REPORT WAS GENERATED AND FILED WITH THE AIRCRAFT RECORDS. <p>I CERTIFY THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH 100 HOUR/ANNUAL INSPECTION PROCEDURES AND IS APPROVED FOR RETURN TO SERVICE.</p> <p>SIGNED: <i>Arnest T. McCreary</i> A&P/IA CERT # 345711</p>

12/17/20 TACH: 4162.05 N144BY TSMOH: 22.45 S/N L-16193-51A

Complied with a 100 hour inspection at this time. Ran for operational check. No oil change at this time. Compressions as follows: 1) 75, 2) 77, 3) 76 4) 78. Cleaned and gapped spark plugs. No maintenance to injectors, therefore AD 2015-19-07 due by TACH 4254.51. Tightened and secured oil dipstick tube. Checked bi-weekly AD's. I certify this engine has been inspected IAW a 100Hour inspection and is approved for return to service.

BSy
Brian Woods AP2720395

ENGINE MODEL:
IO-360-A1B6D
ENGINE S/N: L-16193-51A
REG NO: N144BY
WORK ORDER: 26365



Legend Aviation LLC
2020 Clubhouse Drive
Prescott, AZ 86301
Phone: 928.717.1680

DATE: 12/23/2020
A/C TSN:
ENG TT:
TSMOH:
TACH: 4171

Engine Entries

(1) Performed oil and filter change. Drained oil and inspected filter element and oil sump suction screen, no defects noted at this time. Installed new filter and serviced engine with 7qts. A/S 15W 50 oil. Run up and leak check good.

Technicians Who Worked On The Items Listed Above:
Jim Lancon

I certify that this engine has been inspected in accordance with the above inspection and was determined to be in airworthy condition.

The aircraft engine identified above was repaired and inspected in accordance with current Regulations of the Federal Aviation Administration and is approved for return to service. Pertinent details of the repair are on file at this agency.


DATE: 12/23/2020

SIGNED: *Jim Lancon*

Jim Lancon, A&P 4246250

Work Order: 26365

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DATE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED -- SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
		<p>① CENTRAL JET SERVICE, LLC</p> <p>2030 WARREN DR. MARSHALL TX 76572 903-938-8008</p> <p>ENGINE LOG ENTRY</p> <p>DATE: 6-23-12 REG# N144BY MOONEY M20J S/N 24-0034 TACH METER: 4143.40 ENGINE LYCOMING IO-360-A1B6D S/N L-16193-51A TSO: 0.0</p> <ol style="list-style-type: none"> 1. INSTALLED 0.0 TSO ENGINE (LYCOMING MODEL IO-360-A1B6D, S/N L-16193-51A)—OVERHAUL PERFORMED BY CRS# WS9R575J. 2. C/W ENGINE PERFORMANCE RUNS AND LEAK CHECK—ALL SATISFACTORY. 3. COMPLIED WITH ALL AIRWORTHINESS DIRECTIVES FOR THIS AIRCRAFT AND MADE A AD COMPLIANCE REPORT THAT IS FILED IN THE AIRCRAFT RECORDS. <p>I CERTIFY THIS ENGINE WAS INSPECTED IN ACCORDANCE WITH A 100 HOUR/ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION.</p> <p>SIGNED: <i>D. J. Allen</i> A&P/IA CERT # 2752935</p>
		<p>⑤</p> <p>⑥</p> <p><i>D. Myrick</i></p> <p></p> <p>GREGG AIRCRAFT SERVICES, INC. EAST TEXAS REGIONAL AIRPORT 155 DOVEL ROAD LONGVIEW, TX 75603 903-643-0980</p> <p>N144BY 5-12-2021 TACH 4209.96 Oil and filter changed. 8qts Aeroshell 15w50 and new oil filter p/n CH48103-1. Some metal contamination found in filter and suction screen. Run-up and leak check good. Owner advised and short flight recommended to ascertain engine condition.</p> <p>Robert E. Sutton A&P 3194823 <i>Robert E. Sutton</i></p>
		<p>⑦</p> <p>06/28/21 TACH: 4212.77 N144BY TTENG: 4212.77 S/N L-16193-51A</p> <p>Removed this engine for repair. Engine sent to Mena Aircraft Engines.</p> <p><i>BSy</i> Brian Woods AP2720395</p>

DATE

TACH OR
RECORDING
METER
TIMEDESCRIPTION OF WORK PERFORMED --
SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
WESTERN
Skyways
 INC.

GOLD SEAL AIRCRAFT ENGINES

 21 Creative Place
 Montrose, CO 81401
 www.westernskyways.com

 (800) 575-9029
 (970) 249-0232
 FAX: (970) 249-4155
Engine Make: LYCOMINGModel: IO-360-A1B6DSerial Number: L-16193-51AW/O No: 0026461 Date: 09/10/10Warranty Number: 110234Warranty Start Date: 09/10Crankshaft Serial No: 110050Cylinder Part Number: (3) LW-12993 (1) LW-12987

This engine and accessories listed below were overhauled to "Factory New Tolerances" per Overhaul Manual No: 60294-7-12 See back section for Airworthiness Directives and Service Bulletin compliance. This engine was run in a test cell. Total Previous Time: 4139.60 Hrs.

This engine meets requirements of LYCOMING SI-1009AU for 2000.0 Hour TBO.

The accessories listed below were New or Overhauled and supplied with this engine:

Component	Part No.	Serial No.	Component	Part No.	Serial No.
L/H Mag:	N/A	N/A	Vac Pump:	N/A	N/A
R/H Mag:	N/A	N/A	Wastegate:	N/A	N/A
Fuel Pump:	LW-15473 NEW	2010	Alt/Gen:	N/A	N/A
Inj/Carb:	2524054-10	58019	Pop Off:	N/A	N/A
Man Valve:	2524232-2	L-478	Controller:	N/A	N/A
Starter:	N/A	N/A	VAPC:	N/A	N/A
Turbo:	N/A	N/A	Fuel Limiter:	N/A	N/A
			Tach Gen:	N/A	N/A
			Hyd Pump:	N/A	N/A

MAINTENANCE RELEASE

The engine and accessories listed above were overhauled and inspected in accordance with current Federal Aviation Regulations and were found airworthy for return to service. Pertinent details of this repair are on file at this Repair Station on above work order.

 Signature:
 Repair Station No. WS9R575J

Form 200 Rev 1

Cylinder S/N	Cylinder S/N
#1-28964-10	#5-N/A
#2-028476-17	#6-N/A
#3-029104-2	#7-N/A
#4-029107-4	#8-N/A

ENGINE MAINTENANCE RECORDS

Log No. _____

Aircraft Registration No. N144BY

Engine Manufacturer LYCOMING

Model IO-360-A1B6D

Serial No. L-16193-51A

Date installed on aircraft _____

Time Between Overhauls (TBO) _____ Hours

If used on multi-engine aircraft:

☐ RIGHT

☐ LEFT

☐ FRONT

☐ REAR

N144BY

Wings
VOLUME NO.

GBY

SECTION III

ENGINE

LOG

ENGINE SERVICE AND

MAINTENANCE RECORD

11

2007 DATE	TIME RUN		TIME SINCE OVERHAUL		INSTALLATIONS, INSPECTIONS, NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE
	HRS.	MIN.	HRS.	MIN.	

BROUGHT
FORWARD

Aug 5

Tach Time - 4038.4
 SMOH - 2597
 STOH - 1680.2 New Cylinders + Pistons
 Note: 1546.4 hrs since
 camshaft failure resulted in Engine
 disassembly - New Camshaft, Main
 Bearings, Lifters, Oil Pump Body &
 Impeller, Fuel Injector Servo, NEAR
 Gaskets + Seals -
 I certify that this Engine has
 been inspected IAW a 100 hr
 Inspection and found to be in
 Airworthy Condition -
 Bob GILMAN A&P 437048237
 Bob Gilman

I CERTIFY THAT THIS Engine
 HAS BEEN INSPECTED IN ACCORDANCE
 WITH A Annual INSPECTION AND
 FOUND TO BE IN AIRWORTHY CONDITION
 Arlindus Hall

A&P 439962171 IA

10/22/08

Tach 4052.2 SMOH 2613.8 STOH 1692.6
 Serviced Engine with 10 qts Acrosby
 100W, Replaced oil filter washed down
 engine - Compression at 15173 (2/21)
 3/68 4/470, Adjust mag timing -
 Run Engine - ops ok good - return to spin

I certify that this engine has been inspected in
 accordance with annual inspection and found to be
 in airworthy condition and approved for return to
 service Arlindus Hall A&P 439962171 Tach Time
 4057.29 Oct. 22, 2008 Arlindus Hall

CARRIED FORWARD

TOTAL THIS PAGE

TOTAL FROM
PREVIOUS SUMMARYTOTAL
SINCE MFG.REPAIRS, ADJUSTMENTS, MODIFICATIONS
ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.

SIGNATURE

LICENCE
NUMBER

Tach Time 4085.5
 SMOH - 2644.1
 STOH - 1727.3 3-4-2009
 SOH - 1593.5

8 qts EXXON 100W

48103 Filter

Clean Air filter

I certify that this Engine has been
 inspected and Oil + Filter changed
 IAW standard procedures

Bob Gilman A&P 437048237

Bob Gilman

4-28-08 Tach Time 4098.1 Removed Dual
 magnets - replaced contact points + re-timed
 internal timing - reinstalled + ops ok good.

5-5-09 Tach Time 4099.9 - Found magnet hand
 P-lead grounding to shieldings. Re-attached
 P-lead + insulated from shieldings - Both mag
 ops ok good. 3/20/09 #432231867

CENTRAL JET SERVICE, LLC

2030 WARREN DR.
 MARSHALL TX 76572
 903-938-8008

DATE: 7-16-09 ENGINE LOG ENTRY
 REG# N144BY MOONEY M20J S/N 24-0034 TACH METER: 4135.05

1. INSTALLED REBUILT MAGNETO P/N BL-682555-11, S/N G09FA013R. FUNCTION CHECK NORMAL.

I CERTIFY THIS AIRCRAFT OR APPLIANCE IS AIRWORTHY AND APPROVED FOR RETURN TO SERVICE WITH
 REGARDS TO THE ABOVE MENTIONED MAINTENANCE.

SIGNED Doug Miller A&P/IA CERT # 2752935

MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.

DATE	TIME RUN		TIME SINCE OVERHAUL		INSTALLATIONS, INSPECTIONS, NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE
	HRS.	MIN.	HRS.	MIN.	
12-12-04	TACH	3638			7qts Exxon Elite 20W50 Champion 48103 1 pint Hubland/ Bob Gilman AP 437048237
10-12-05	TACH	3849			8qts Exxon Elite 20W50 Hubland 48103 Filter Bob Gilman AP 437048237
11-24-05	TACH	3892			8qts Exxon Elite 20W50 Hubland 48103 Filter Bob Gilman AP 437048237
12-1-05	TACH	3905			Replaced Vacuum Pump 2.5 CC w/ 12-11111 unit Bob Gilman AP 437048237
3-1-06	TACH	3932			8qts Exxon Elite 20W50 Hubland 48103 Filter Bob Gilman AP 437048237
10-30-06	TACH	3988			8qts Shell 100W plus Hubland 48103 Filter Bob Gilman AP 437048237
11-13-06	TACH	4015			7qts Shell 100W plus Bob Gilman AP 437048237
					CARRIED FORWARD
TOTAL THIS PAGE					
TOTAL FROM PREVIOUS SUMMARY					
TOTAL SINCE MFG.					

REPAIRS, ADJUSTMENTS, MODIFICATIONS
ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.

SIGNATURE

LICENCE
NUMBER

GUNTER AVIATION ENTERPRISES

P.O. Box 8072
Shreveport, Louisiana 71108
Phone 226-4512 OR 686-2513 OR 455-6035
BUY-SELL-TRADE-MAINTAIN

LOG BOOK ENTRY

June 1, 2006-TAC Time 3957:53-TSMOH 2515:8- Removed plugs and rotated and cleaned and gaped-Compression check all 72 or above-Checked exhaust system replaced one bolt and nut in pipe clamp-Checked timing and all leads for wear and tear-Changed oil and filter (Exon 20W50) installed new air filter P# LB 1172-Washed down engine and run for leaks none found-Work order # 2006 on file for work and parts-

LAST ENTRY

July 6th 2006 Tech Time 3963.2 - Removed Dual magnets & replaced with overhauled 3200 series mag. ops ok good. Steve Wmckey #4332-0867

Date 1 June 06 Total Time 3957.53

I certify this Engine has been inspected in accordance with a 100-hour inspection and was determined to be in worthy condition

Parnie L. Gunter Reg. 2-63313

I CERTIFY THIS ENGINE HAS BEEN INSPECTED IAW AN ANNUAL INSPECTION AND FOUND TO BE IN A AIRWORTHY CONDITION

DATE 1 June 06 TOTAL TIME 3957.50

TAC TIME 3957.50

HOWARD G. PECKARD 1626440 IA

MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.

ENGINE SERVICE AND

MAINTENANCE RECORD

9

DATE	TIME RUN		TIME SINCE OVERHAUL		INSTALLATIONS, INSPECTIONS, NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE
	HRS.	MIN.	HRS.	MIN.	
BROUGHT FORWARD →					
4-1-04					ENGINE COMPRESSION AS FOLLOWS: #1: 74/80 #2: 70/80 #3: 72/80 #4: 74/80 ANNUAL INSPECTION CONT.
					Date 4-1-04 Time in service 3469.42 HRS. I certify that this aircraft and/or engine has been inspected in accordance with a <u>ANNUAL</u> inspection, and was determined to be in Airworthy Condition. Mechanic's Signature <u>Thomas Kolb</u> Pertinent details of this inspection are on file at this repair station under Order No. <u>3731</u> Sair Aviation, d/b/a Piedmont Hawthorne (Syracuse) 835 1801 Maiden Road Syracuse, NY 13211 CRS #EASR436D
6-24-04					TACH - 3507.4 7 QTS EXXON ELITE 20W50 Kelley ES48103 Filter 1 pint Av-Blend - leak ck ok TSR Gilman AP437048237

MAKE: Mooney
MODEL: M20J
S/N:
REG. NO: N144BY
WORK ORDER:
214-06-2004



Don Maxwell Aviation Services, Inc.
P.O. Box 884
Gladewater, Texas 75647
Phone: 903-845-5844

DATE: 6/24/2004
A/C TSN:
TACH: 3508.07

Airframe Entries

(1) Replaced fuel pump pn. 10268 with new Weldon Pump Pn. A-8163-A, Mooney Pn. 223437, Sn. 105578.... (2) Replaced Exhaust bracket pn. 630120-003 with new Mooney part.

DATE: 6/24/2004

SIGNED: D. P. Myer

AP437048237

Work Order: 214-06-2004
Printed by EBis 3 (datamedia.com)

8-16-04					TACH - 3547.4 7 QTS EXXON ELITE 20W50 Kelley ES48103 Filter 1 pint Av-Blend - leak ck ok TSR Gilman AP437048237
11-2-04					TACH 3592 7 QTS EXXON ELITE 20W50 Kelley ES48103 Filter 1 pint Av Blend AP437048237
CARRIED FORWARD					
TOTAL THIS PAGE					
TOTAL FROM PREVIOUS SUMMARY					
TOTAL SINCE MFG.					

REPAIRS, ADJUSTMENTS, MODIFICATIONS ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.	SIGNATURE	LICENCE NUMBER
1-17-05 Tach 3664 7 QTS EXXON ELITE Kelley ES48103 Filter Av blend leak ck ok AP437048237		
4-15-05 TACH 3735 7 QTS EXXON ELITE Kelley ES48103 Filter Av blend leak ck ok TSR Gilman AP437048237		

N # 144BY
MAKE: MOONEY
MODEL: M-20-J
S.N: 24-0034

TAC Air

6179 AMELIA EARHART DR.
SHREVEPORT, LA. 71109

FAA REPAIR STATION # UXDR900X

WORK ORDER# 325249

TACH: 3753.16
ACTT: 3753.16

19 APR, 2004

ENGINE LOG ENTRY LYCOMING MOD: IO-360-A1B6D SN: L-16193-51A ENG TT: 3753.1 TSO: 2311.8
COMPLETED 100 HOUR/ANNUAL INSPECTION THIS DATE USING INSPECTION GUIDE FROM MOONEY M-20-J MAINTENANCE MANUAL, CHAPTER 5. C/W AD 2002-26-01, FUEL INJ LINE INSP. COMPLETED OIL & FILTER CHANGE. SERVICED WITH 8 QTS EXXON ELITE 20W50. INSTALLED NEW ES48103 FILTER. OLD FILTER CUT OPEN FOR INSP. CLEANED FUEL INJECTORS & SCREEN. CLEAN, GAP & ROTATE SPARK PLUGS. INSTALLED NEW CRANKSHAFT SEAL, PN: LW-13792. INSTALLED OVERHAULED MAGNETO FROM CRS# UT2R226L (KELLY). PN: 10-682555-11, SN: FO42897. COMPRESSION TEST AS FOLLOWS: #1, 75/80; #2, 76/80; #3, 73/80; #4, 74/80
I CERTIFY THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 HOUR/ANNUAL INSPECTION, AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION. *** end ***

I CERTIFY THAT THIS AIRCRAFT OR APPLIANCE IDENTIFIED ABOVE WAS INSPECTED AND / OR REPAIRED IN ACCORDANCE WITH CURRENT FAA REGULATIONS, AND IS APPROVED FOR RETURN TO SERVICE. DETAILS OF THIS INSPECTION AND / OR REPAIR ARE ON FILE AT THIS REPAIR STATION UNDER WORK ORDER # 325249

19 APR, 2004
UXDR900X TOMMY HOBBS DATE

7-20-05					TACH 3800 7 QTS EXXON ELITE Kelley ES48103 Filter + Av blend TSR Gilman AP437048237
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MAKE: Mooney
MODEL: M20J
S/N:
REG. NO: N144BY
WORK ORDER:
466-09-2005

Don Maxwell Aviation Services, Inc.

390 Central Road - East Texas Regional Airport
Longview, Texas 75603
Phone: 903-643-9902

DATE: 9/30/2005
A/C TSN: 324.94
TACH: 3833.01

Airframe Entries

(1) Started a/c on arrival, ops good. Removed Skytec starter 149-12LS, sn. F2L-450102. Installed new Sky-Tec 149-NL starter, Sn. FN-350521. Repaired baffling around starter, installed missing cotter pin in alternate air door per AD. Replaced old style starter relay with new and moved relay to firewall. Replaced starter wire from ignition switch to new relay. Insulated ignition switch from intercom box.

Don Maxwell A&P 1784050

DATE: 9/30/2005

SIGNED: Don P. Myer

Work Order: 466-09-2005
Printed by EBis 3 (datamedia.com)

MAINTENANCE RECORD

REPAIRS, ADJUSTMENTS, MODIFICATIONS ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.	SIGNATURE	LICENCE NUMBER
<p>Tower Aviation, Inc.</p> <p>11-07-02 N144BY 3439.3 Hours</p> <p>1.)Compression #1 77/80; #2 79/80; #3 77/80; #4 78/80; 2.)Oil and filter change; serviced with Aeroshell 15W50; 3.)Cleaned and gapped spark plugs-replaced 1 spark plugs (RHM 38E); 4.)Checked mag timing; 5.)Checked controls for security and freedom of movement; lubed as required; 6.)AD'S checked through 2002-23; 7.)C/W AD 93-02-05-fuel injection lines, by inspection no defects noted;an annual inspection; engine ops and leak check good; I certify that this engine has been inspected I/A/W an annual inspection and was determined to be in airworthy condition.</p> <p>-END-</p> <p>Paul J. Yoder <i>[Signature]</i></p> <p>A & P 192647138IA</p>		
<p>4-1-04 TACH READS: 3469.42 HRS.</p> <p>COMPLETED ANNUAL INSPECTION AT THIS TIME. CHANGED OIL & FILTER. INSPECTED FILTER NO CONTAMINATES FOUND. SERVICED ENGINE WITH 7 QTS. AEROSHELL 15W50 OIL. COMPLIED WITH A.D. ^{2002-26-01 (TR)} 93-02-05 BY INSPECTION OF FUEL INJECTOR LINES. ENGINE GROUND RUN AND LEAK CHECK SATISFACTORILY COMPLETED. → SEE NEXT PAGE FOR SIGN-OFF TR</p>		
<p> Date _____ Time _____ I certify that this engine has been inspected in accordance with the requirements of the Federal Aviation Administration and is in Airworthy Condition. Inspector's Signature _____ Tower Aviation, Inc. 1901 Maiden Road Syracuse, NY 13211 CRS #EASR436D </p>	<p> Signature _____ Engine has been inspected in accordance with the requirements of the Federal Aviation Administration and is in Airworthy Condition. Inspector's Signature _____ Tower Aviation, Inc. 1901 Maiden Road Syracuse, NY 13211 CRS #EASR436D </p>	<p> Licence Number _____ Engine has been inspected in accordance with the requirements of the Federal Aviation Administration and is in Airworthy Condition. Inspector's Signature _____ Tower Aviation, Inc. 1901 Maiden Road Syracuse, NY 13211 CRS #EASR436D </p>

MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.

ENGINE SERVICE AND

MAINTENANCE RECORD

7

DATE	TIME RUN		TIME SINCE OVERHAUL		INSTALLATIONS, INSPECTIONS, NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE
	HRS.	MIN.	HRS.	MIN.	
BROUGHT FORWARD	→				

11 JUN 1998

TACH 3143.5 & TOTAL TIME, TSOH 1702.2 ANNUAL INSP: COMPRESSION - 69-76-76-74, CHG'd OIL & FILTER-AERO SHELL 15W50; R&R ALT CABLE BOOT; C/W AD's 93-02-05@ BY INSP, 96-09-10 PCW 8-15-94 BY INSTALLING GEAR KIT. I certify that this ENGINE has been inspected in accordance with ANNUAL inspection and was determined to be in airworthy condition. Pertinent details of the repair/work are on file at this repair station in Work Order 98-133
Lake Aero Styling & Repair, FAA Repair Station NT3R722L,
4725 Highland Springs Rd, Lakeport CA 95453, 707-263-0412

Paul E. Loew

7-7-98	Tach	3164.6	replaced starter drive in starter P/N EBB-131A. Wade E. Ringle A/P 165321953 LA
9-30-98		3183.06	Changed oil & filter, serviced with 7 qts of Aeroshell 100W oil. Leak checked filter. Approved for return to service. Clarence Lowers A/P 1399205
5-20-99		3230.0	Changed oil & filter. Serviced with Aeroshell 100W oil. Leak Check Good. Paul J. Goli A/P 192647138
CARRIED FORWARD			
TOTAL THIS PAGE			
TOTAL FROM PREVIOUS SUMMARY			
TOTAL SINCE MFG.			

REPAIRS, ADJUSTMENTS, MODIFICATIONS
 ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.

SIGNATURE

LICENCE NUMBER

HENRY WEBER AIRCRAFT DISTRIBUTORS, INC.

TACH 8-16-99 3233.3 ENGINE TOTAL TIME - 3233.3 HRS 5MOH - 1792.0 HRS

COMPLETED ANNUAL INSPECTION THIS DATE:

C/W AD 93-02-05 FUEL INJECTOR LINES - INSPECTED TACH LYCOMING SB 3428 NEXT DUE - 8/2000

AD 98-17-11 CRANKSHAFT REPAIRS - N/A NO WORK DONE BY "NELSON BALANCING SERVICE"

AD 98-18-17 FUEL PUMP SCREWS - N/A BY MODEL PUMP INSTALLED (DIAPHRAM TYPE)

C/W AD 96-12-07 MAGNETO INDUCE COUPLING - INSTALLED FACTORY REMAN MAGNETO SIN F1599046R - NEXT DUE - 3133.3 HRS

C/W AD 98-23-01 "AIRBORNE" VACUUM PUMPS - INSPECTED & FOUND COUPLING OK TACH AIRBORNE SL 48 PUMP SIN 9AP 3326

DID NOT CHANGE OIL, REMOVED FILTER & CUT OPEN - INSPECTION OK -

INSTALLED NEW OIL FILTER. REPLACED ALL ROCKER COVER GASKETS, ALL

INTAKE PIPE GASKETS & SEALS, ALL EXHAUST PIPE FLANGE GASKETS, #4

EXHAUST PIPE LOWER HALF & CLAMP ASSY, ALL ROCKER OIL RETURN DRAIN

TUBES & HOSES, CRANKSHAFT SEAL, PROP O-RING, ALTERNATOR BELT,

OIL FILTER TUBE SEALS, PROP CONTROL BOLT, INDUCTION AIR FILTER, FORWARD TAILPIPE CLAMP & TAILPIPE TO

MUFFLER BOLTS, EXHAUST MUFFLER SHROUD IN FRONT AIR DUCTS. REPLACED ALL FLUID CARRYING HOSES

WITH NEW TEFLON HOSE KIT FROM PHT INC (INVOICES FOR APPROVALS). CLEANED & PAINTED ENGINE MOUNT

AS NEEDED, RESHIMMED COWL FLAP LINKAGE, C/W MOONEY SB M20-231 PARTS 1/2 BY INSTALLATION

OF COWL FLAPS UPGRADE KITS. REPAIRED WIRING AT ALTERNATOR, REROUTED & SECURED STARTER

LEAD. SECURED WIRING IN ENGINE COMPARTMENT & NEW HOSES WITH CLAMPS & TYRAPS AS NEEDED.

SERVICED SPARK PLUGS & CLEANED FUEL SERVO SCREEN, LUBED ENGINE CONTROLS.

ENGINE COMPRESSIONS: #1 76/80 #2 78/80 #3 74/80 #4 78/80

END ANNUAL ENTRY

11-5-99 TACH 3270.0 ENG T.T. 3270 5MOH 1828.7

INSTALLED NEW OIL FILTER & SERVICED W/ AEROSHELL

OIL. INSTALLED TAN'S ENGINE HEATER S/N 10257

PIN 100-03. WT. CHANGE NEGLIGIBLE

END



LANCASTER AIRPORT LITITZ, PENNA.

DATE 8-16-99 REP. STATION NO. DY1R103K

PERTINENT DETAILS OF THE WORK PERFORMED ARE ON

FILE AT THIS REPAIR STATION UNDER ORDER

NO. 12350

INSPECTOR *Darryl J. Snyder*

AIRCRAFT 3233.3 ENGINE 3233.3

I CERTIFY THAT THIS ENGINE HAS BEEN

INSPECTED IN ACCORDANCE WITH (A) (1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12) (13) (14) (15) (16) (17) (18) (19) (20) (21) (22) (23) (24) (25) (26) (27) (28) (29) (30) (31) (32) (33) (34) (35) (36) (37) (38) (39) (40) (41) (42) (43) (44) (45) (46) (47) (48) (49) (50) (51) (52) (53) (54) (55) (56) (57) (58) (59) (60) (61) (62) (63) (64) (65) (66) (67) (68) (69) (70) (71) (72) (73) (74) (75) (76) (77) (78) (79) (80) (81) (82) (83) (84) (85) (86) (87) (88) (89) (90) (91) (92) (93) (94) (95) (96) (97) (98) (99) (100) (101) (102) (103) (104) (105) (106) (107) (108) (109) (110) (111) (112) (113) (114) (115) (116) (117) (118) (119) (120) (121) (122) (123) (124) (125) (126) (127) (128) (129) (130) (131) (132) (133) (134) (135) (136) (137) (138) (139) (140) (141) (142) (143) (144) (145) (146) (147) (148) (149) (150) (151) (152) (153) (154) (155) (156) (157) (158) (159) (160) (161) (162) (163) (164) (165) (166) (167) (168) (169) (170) (171) (172) (173) (174) (175) (176) (177) (178) (179) 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ENGINE SERVICE AND

MAINTENANCE RECORD

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DATE	TIME RUN		TIME SINCE OVERHAUL		INSTALLATIONS, INSPECTIONS, NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE	REPAIRS, ADJUSTMENTS, MODIFICATIONS ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.	SIGNATURE	LICENCE NUMBER
	HRS.	MIN.	HRS.	MIN.				
BROUGHT FORWARD →								
Aug 25, 1994	00		1050	72	Engine Installed after Repairs at Valley Aircraft Released to Service Subject to For Powerplant Controls Affected by Engine	Aero Engines - Ground Run Satisfactory - Satisfactory Test Flight - Independent Check Re: Re - P. Gutormson 14341502	Transcribed	M40327
Oct 30, 1994	47	6	1098	32	Oil + Filter Changed Using Phillips 20Wx50	Mineral Oil + CH48103 Oil Filter AMO-203-93		M405223
Nov 08, 1995	33	2	1131	52	Annual Inspection Completed per Chap. Compression 1- $\frac{7}{80}$ 2- $\frac{7}{80}$ 3- $\frac{7}{80}$ 4- $\frac{7}{80}$ - Engine Oil - Screen Checks O.k. - Re Route	571 Appendix "A" of the AWM - Engine Oil Change Completed Using Aeroshell 15Wx50 Oil Cooler Flex Line (Wings AMO-203-93) -		M405223
Oct 20, 1995	37	1	1168	62	Change Engine Oil using Aeroshell 15Wx50	571 Appendix "A" of the AWM - Engine Oil Change Completed Using Aeroshell 15Wx50 (Wings AMO-203-93) -		M405223
March 22, 1996	15	8	1184	42	Annual Inspection Completed per Chap. Compression 1- $\frac{7}{80}$ 2- $\frac{7}{80}$ 3- $\frac{7}{80}$ 4- $\frac{7}{80}$ - Engine Oil - Screen Checks O.k. -	571 Appendix "A" of the AWM - Engine Oil Change Completed Using Aeroshell 15Wx50 (Wings AMO-203-93) -		M405223
OCT 01-96					#2 CYL REPLACED WITH PMS13 AIR SN. J22587 w/10 CYLINDER BASELE REPAIRED & OIL & FILTERS REPLACED	# 522587: SPARK PLUGS CLEANED & GAPPED #2 & #4 INNER (100 AERSHELL MINERAL) FILTER CHECKED "OK".		M341502
OCT 24-96					EGT PROBE REPLACED - NEW PROBE - EXHAUST OUTLET PIPE CLAMP REPAIRED	TRANSCRIBED FOR		M341502
MAR 27-97					ANNUAL INSPECTION COMPLETED AS PER CHAPTER COMPRESSION #1 $\frac{79}{80}$ #2 $\frac{80}{80}$ #3 $\frac{79}{80}$ #4 $\frac{80}{80}$	571, APPENDIX "A" OF THE AIRWORTHY MAN -		M405223
JUNE 19-97					REPLACE ENGINE DRIVEN FREE PUMP PN LW15473 MAG CAP & HARNESS & SET UP IDLE & MIXTURE	REMOVE BENDIX FCU FOR REPAIR BY PROGRESSIVE, REPLACE IDLE SPEED	TRANSCRIBED FOR	M405223
SEP 16-97	15	6	1200	02	OIL & FILTER CHANGED (AERSHELL 15W50)	FILTER CHECKS OK. IDLE SPEED & MIXTURE ADJUSTED.	TRANSCRIBED FOR	M405223
APRIL 14/98	42	.4	1242	.4	100 HR. INSPECTION COMPLETED PER CAR 625 APPENDIX B Date APR. 14/98 LIC. NO. M103826 CARBLED FORWARD DUPEL AMO No. 461-91			
TOTAL THIS PAGE								
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TOTAL SINCE MFG.								

MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.

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REPAIRS, ADJUSTMENTS, MODIFICATIONS ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.		SIGNATURE	LICENCE NUMBER
per Maintenance Release Tags - Re-installed Injector removed, Repaired per Progressive + Repaired per A-1 Propellers + Re-installed + Repaired Re-installed - Replaced fuel Journey log Book			M341502
Chap. 571 Appendix "A" of the Airworthiness Checked O.k. + Phillips 20Wx50 Type "M" rod - All spark Plugs Replaced - Exhaust 1-80/80 2-70/80 3-70/80 4-70/80 - Mixture Heat Aeroduct - Repair Outer Exhaust Power Plant Controls Affected +		WINGS LIGHT AIRCRAFT MAINTENANCE AMO # 153 - 93 Lic. # M405223 Signed R-2 M341502	5/2/86 MEI
Aircraft Engine Switched to 20Wx50 Rod End onto Throttle Control - Check Independent Check for Powerplant M341502		WINGS LIGHT AIRCRAFT MAINTENANCE AMO # 153 - 93 Lic. # M405223 Signed R-2 Date 10/1/94	
Compression checked 1-70/80 2-70/80 3-70/80 4-70/80 Removed due to Metal found in oil.			M405223
Engine received due to camshaft failure. Engine Crankcase stripped and reassembled with new parts as noted on right hand page.			
The maintenance described has been performed in accordance with the applicable standards of airworthiness. Name of authorized inspector		VALLEY AERO ENGINES LTD. M341502 6-86-1	
MAXIMUM HOURS BETWEEN OVERHAULS		HOURS.	

MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.

ENGINE SERVICE AND

DATE	TIME RUN		TIME SINCE OVERHAUL		INSTALLATIONS, INSPECTIONS, NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE
	HRS.	MIN.	HRS.	MIN.	
BROUGHT FORWARD	→		495	47	
MAR 8/90	87	20	583	07	ANNUAL INSPECTION CARRIED OUT
DEC 28/90	48	25	631	32	ANNUAL INSP. CARRIED OUT... SHELL 15W50 LEAKAGE #1-14% #2-16% #3-15% #4-14% #2 & 4 ROCKER COVER GASKETS CHANGED #4 CYL EXHAUST GASKET REPLACED
JAN 26/92	76	15	707	47	annual insp carried out LAW the Shell 15W50 Leakage #1-18% #2-10% #3-14% #4-12% #1 cyl rocker cover gasket replaced #2 cyl bottom plug replaced MSR 87
JAN 28/93	119	15	824	02	Annual insp carried out Shell 15W50 Leakage #1-15% #2-15% #3-15% #4-15% #1 cyl rocker cover gasket changed starter replaced with S/P 12B
Sept 17, 1993	71	7	898	72	Oil Changed 15Wx50 - Filter changed Battery fluid topped up - Exhaust #1 & #2 Intake Gaskets Replaced -
Sept 29, 1993	3	75	902	47	Exhaust Re-installed Tightened - New "Transcribed from Journey log
OCT 23, 1993	13	45	915	92	Replaced Flex Fuel line feed to fuel tube shortened "Transcribed from
TOTAL THIS PAGE					CARRIED FORWARD
TOTAL FROM PREVIOUS SUMMARY					
TOTAL SINCE MFG.					

MAINTENANCE RECORD

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MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.

ENGINE SERVICE AND

MAINTENANCE RECORD

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DATE	TIME RUN		TIME SINCE OVERHAUL		INSTALLATIONS, INSPECTIONS, NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE
	HRS.	MIN.	HRS.	MIN.	
MARCH 5/85					INSTALLED TANIS model 100-03 PNE
Nov 8/85			148	.8	100 hr Insp Done
FEB - 9 1987	99	4	248	12	C & A - Renawall 100 hour inspection completed Oil + Filter changed 15/50 new starter installed
Sept 14/87	103	41	351	53	100 hr inspection carried out Sheet Oil 15W50 Shell LEAKAGE #1-10% #2-5% #3-12% #4-8% pin balls checked for security.
Sept 15/88	120	02	471	55	100 hr inspection carried out Shell 15W50 #1 & 4 intake gaskets replaced #2 & 4 push rod seals replaced LEAKAGE #1-12% #2-6% #3-8% #4-10%
SEPT FEB 2/89	23	52	495	47	COMPLETE A/C INSPECTION CARRIED FOR #2 cyl plug lead nut REPLACED 4 HSR 86 plugs INSTALLED lower #1 cyl ROCKET COVER GASKET REPLACED EXHAUST GASKETS REPLACED CARRIED FORWARD
TOTAL THIS PAGE					
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TOTAL SINCE MFG.					

REPAIRS, ADJUSTMENTS, MODIFICATIONS
ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.

SIGNATURE

LICENCE
NUMBER

Lester 9/6 G143 per Tanis Drawings 100 & 100A

Lester Kay VAM250748

I CERTIFY THAT THE CONDITION AND CONFORMITY
INSPECTION HAS BEEN COMPLETED ON THIS AIR-
CRAFT AND THE AIRCRAFT WAS DETERMINED TO BE
AIRWORTHY.

Signature of A.M.E.

Licence No. KEM 150440

Date Nov 8/85

I certify that all applicable requirements
stated in the Engineering and Inspection
Manual have been met and the aircraft
is determined to be airworthy.

Signature of A.M.E.

Licence No. XDM-008943

Date FEB - 9 1987


WESTERN AVTECH
 SERVICES
 R.R.1. Boundary Bay Airport
 Delta, B.C. V4K 3N2
 (604) 946-9911

 as per Mooney Aircraft Corp inspection
 penny washer installed on prop control
 #1, 2, 4 rocker cover gaskets changed
 rocker drain tube clamps tightened
 #2 & 4 exhaust gasket changed.
 engine is airworthy

Mike Sage VRN623

engine is airworthy

Mike Sage VRN623

CCE

15W50 SNAIL

ENGINE IS AIRWORTHY

LEAKAGE #1-14% #2-12% #3-10% #4-10%

Mike Sage VRN623

MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.

DATE	TIME RUN		TIME SINCE OVERHAUL		INSTALLATIONS, INSPECTIONS, NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE
	HRS.	MIN.	HRS.	MIN.	
BROUGHT FORWARD →					
May 23/84			0	0	<p>T.T.S.N. 1441.3 hrs</p> <p>Engine received at Bradley overhauled as per attached</p> <p>This engine is warranted against failure due to faulty workmanship during overhaul, for a period of 90 days from date of test or 150 hours of operation whichever occurs first.</p>
June 12/84					<p>Engine installed after overhaul</p> <p>New Engine mount bearing</p> <p>Engine Mount Magnifying at Bradley</p> <p>Repair at Leggett</p>
15/10/84					<p>OIL CHANGED Shell mineral</p> <p>50 HRS</p> <p>OIL FILTER CHANGED</p> <p>NO 2 INTAKE GASKET REPLACED</p> <p>SPARK PLUGS CHANGED</p> <p>HEATER AIR DUCT REPLACED</p>
November 29/84	50.8		50.8		<p>I hereby certify I have completed the nearest equivalent to a 100 hro hour periodic inspection of the ENGINE described herein, as per maintenance manual and E & I requirements.</p> <p>Date 29/11/84 Signature Jone Kory VRM 259748</p> <p>Date Signature Lic. No.</p>
TOTAL THIS PAGE		50.8			
TOTAL FROM PREVIOUS SUMMARY					
TOTAL SINCE MFG.					

REPAIRS, ADJUSTMENTS, MODIFICATIONS		SIGNATURE	LICENCE NUMBER
ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.			
<p>Air Services Ltd & completely reports & test log sheet</p> <p>Engine Airworthy</p>		<p>M.O.T. COMPANY APPROVAL 27-74</p> <p>BRADLEY AIR SERVICES LTD.</p> <p>Richard Ebb</p> <p>CHIEF INSPECTOR ENGINE SHOP</p>	
<p>THIS WARRANTY IS NOT VALID IF DISPERSANT TYPE OIL IS USED FOR THE FIRST 50 HOURS OF OPERATION.</p>			
<p>I have conducted an inspection for conformance to the Type of the Flight/Powerplant Controls that were affected by the work done</p> <p>Signature J. Smith 72M-13404</p>			
<p>I have conducted an inspection for conformance to the Type of the Flight/Powerplant Controls that were affected by the work done</p> <p>Signature J. Smith 72M-13404</p>			
<p>I certify that all applicable airworthiness requirements stated in the Engineering and Inspection Manual have been met in respect of the work done and the aircraft is released for return to service.</p> <p>Signature J. Smith 72M-13404</p>			
<p>I certify that all applicable airworthiness requirements stated in the Engineering and Inspection Manual have been met in respect of the work done and the aircraft is released to return to service.</p> <p>Signature J. Smith 72M-13404</p>			
<p>I CERTIFY THAT THE CONDITION AND CONFORMITY INSPECTION HAS BEEN COMPLETED ON THIS AIRCRAFT AND THE AIRCRAFT WAS DETERMINED TO BE AIRWORTHY.</p> <p>Signature of A.M.E. Jone Kory</p> <p>Licence No. VRM 259748 Date 29/11/84</p>		<p>I CERTIFY THAT ALL APPLICABLE REQUIREMENTS STATED IN THE ENGINEERING AND INSPECTION MANUAL HAVE BEEN MET AND THE AIRCRAFT IS DETERMINED TO BE AIRWORTHY.</p> <p>Signature of A.M.E. Jone Kory</p> <p>Licence No. VRM 259748 Date 29/11/84</p>	

ENGINE SERVICE AND

MAINTENANCE RECORD

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DATE	TIME RUN		TIME SINCE OVERHAUL		NOTE: USE BOTH PAGES
	HRS.	MIN.	HRS.	MIN.	
23/11/82			1295	7	TRANSFER
14/4			1349	3	oil
12/7/83	44	9	1394	2	SPARK PLUGS (bottom)
6/11/83	37	9	1432	1	
Mar 20, 84			1441	3	Engine removed for inspection & because of condensation
CARRIED FORWARD					
TOTAL THIS PAGE					
TOTAL FROM PREVIOUS SUMMARY					
TOTAL SINCE MFG.					

APPROPRIATE COMMENTS		
TEMP	DEW POINT	ALTITUDE
WIND VEL	VISIBILITY	CEILING
ATIS FREQ	ATIS NAME	WIND DIR
AIRPORT	ELEVATION	PATTERN ALT

ETE

can

REPAIRS, ADJUSTMENTS, MODIFICATIONS
ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.

SIGNATURE

LICENCE NUMBER

LOG BOOKS

I hereby certify I have completed the nearest equivalent to a 100 hr. periodic inspection of the aircraft described herein and it is airworthy.

M. Chini Y2M410

M. Chini Y2M410

Cox

can - up done
no leaks

REPLACED

OIL CHANGED

OIL FILTER CHANGED

ADDITIONAL ADDED TO OIL.

I hereby certify I have completed the nearest equivalent to a 100 hr. periodic inspection of the aircraft described herein and it is airworthy.

M. Chini Y2M410

I certify I have inspected this aircraft in compliance with the condition and conformity inspection procedure prescribed in The Engineering and Inspection Manual and the aircraft is airworthy.

Date 6/11/83 Engineer M. Chini

Lic. No. Y2M410

OTTAWA FLYING CLUB INC.

J. Flynn Y2M-128

after prop strike
overhaul

MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.

ENGINE LOG

1. Make	<u>LYCOMING</u>
2. Model	<u>10-360-A1B6D</u>
3. Specification	<u>1 E 10</u>
4. Mfg. Serial No.	<u>L-16193-51A</u>
5. Reduction Gear Ratio	<u></u>
6. Date of Manufacture	<u>1976</u>