



The Standard

ENGINE LOG

ASA-SE-2

Engine Record General Information

Manufacturer Lycoming Model O-360-A1D

Serial L-23635-36A Type Certificate E-286

This engine is currently installed in aircraft: Mooney M-20C, N64024
S.N. 2149

Minimum Octane Fuel _____ Oil Grade Summer _____ Winter _____

Magneto Time _____ Point Setting _____ Firing Order 1,3,2,4

Spark Plug Gap _____

Manufacturer's Recommended Overhaul at _____ hours

YEAR 20 12 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.)
June 15	Tach reads	685.9	Engine Total Time 6062.7	Time since major overhaul 4.9 Annual Inspection ① Removed all 4 cylinder assemblies due to rust on cylinder walls, honed all 4 cylinder assemblies, reassembled cylinders to engine using ECI #5T203 ring sets and Lycoming O-360 Parallel Valve Top overhaul gasket sets, all this work has been done in accordance with the Lycoming Direct Drive Engine Overhaul Manual, Inspected camshaft all OK. ② Drained and changed oil, refilled with 8 qts Aeroshell 100 mineral oil and 1/2 pint of Cam Guard ③ Replaced oil Filter, installed Champion 48110, cut open old filter no debris found. ④ This Engine has been inspected in accordance with the Mooney Annual Inspection Guide and Title 14 CFR 43 Appendix D. I certify that this Engine has been inspected in accordance with a 100hr/Annual Inspection and has been determined to be in Airworthy Condition. Em Ellis M's Center Atp 2146338 I/A

YEAR 20 <u>13</u> 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.)
June 1	Tach reads	689.9	6066.7	Engine Total Time 6066.7 Time Since Major Overhaul 8.9 Annual Inspection ① Compression reads #1 $\frac{76}{30}$ #2 $\frac{76}{30}$ #3 $\frac{76}{30}$ #4 $\frac{75}{30}$ ② Replaced Air filter element - Brunkett # BA6108 ③ This Engine has been inspected in accordance with the Mooney Annual Inspection Guide and Title 14 CFR 43 Appendix D. I certify that this Engine has been inspected in accordance with a 100hr/Annual Inspection and has been determined to be Airworthy Condition. Eric Ellis M-Comber ATP 2146338 J/A
JUNE 29	706.5			OIL/FILTER CHANGE, REFILLED w/ 8qt Aeroshell 100 GENERAL OIL
2014 JAN 18	743.7			OIL/FILTER CHANGE, REFILLED w/ 8QT AGROSELL W100 SAE 50

YEAR 20 DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
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June 21, 2014

EXODUS AIR SERVICE CORP.

4555 West Ave "G" Suite 10 Hangars B2 (KWJF) Lancaster, California 93536
 Phone (661) 942-6489 Fax 661 942 0012 Exodusairservice@hotmail.com

N6402U ENGINE

Lycoming O-360-AID S/N: L-23635-36A

Tachometer: 765.2 Airframe Total Time: 7,962.9 Time Since Major Overhaul: 80.2

Annual inspection performed per Scope and Detail of Appendix D to Part 43.

- Removed all spark plugs, cleaned, gapped, spark tested and reinstalled with new M674 copper gaskets.
- Compression Test: #1 74/80, #2 76/80, #3 76/80, #4 76/80.
- Oil drained and sample collected for analysis. Removed oil filter and cut open for inspection. Nothing abnormal noted. New oil filter installed and sump refilled with (8) Eight quarts of Aeroshell W100 Ash less Dispersant oil. Add one pint of Cam Guard Advanced Oil supplement P/N: 08-07096.
- Magnetos removed from engine. 500 hour inspection performed by Exodus Air Service Repair Station. Magnetos reinstalled and timing set to specification.
- Oil dip stick tube removed, gasket replaced, threads sealed with PRC and tube reinstalled, torqued and safety wired.
- Solvent wash engine, ground test run and leak checked satisfactory.
- AD 2004-10-14 C Due at any propeller strike as defined by this AD or at engine overhaul.
- All airworthiness directives are in compliance through 2014-12.

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

Bruce Allan Bell A&P I.A. 3444107

Bruce Allan Bell 6/21/2014

YEAR 20 <u>14</u> DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
11 Oct	819.0			OIL/FILTER CHANGE, REFILLED w/ 7 QT AEROSHELL W100 SAE 50 + CAM GUARD

June 06, 2015

EXODUS AIR SERVICE CORP.

4555 West Ave "G" Suite 10 Hangars B2 (KWJF) Lancaster, California 93536
 Phone (661) 942-6489 Fax 661 942 0012 Exodusairservice@hotmail.com

N6402U ENGINE

Lycoming O-360-AID S/N: L-23635-36A

Tachometer: 833.4 Airframe Total Time: 8040.1 Time Since Major Overhaul: 157.4

Annual inspection performed per Scope and Detail of Appendix D to Part 43.

- Removed all spark plugs, cleaned, gapped, spark tested and reinstalled with new M674 copper gaskets.
- Compression Test: #1 78/80, #2 80/80, #3 80/80, #4 80/80.
- Oil drained and sample collected for analysis. Removed oil filter and cut open for inspection. Nothing abnormal noted. New oil filter installed and sump refilled with (8) Eight quarts of Aeroshell W100 Ash less Dispersant oil. Add one pint of Cam Guard Advanced Oil supplement P/N: 08-07096.
- Solvent wash engine, ground test run and leak checked satisfactory.
- AD 2004-10-14 C Due at any propeller strike as defined by this AD or at engine overhaul.
- All airworthiness directives are in compliance through 2015-11.

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

Bruce Allan Bell A&P I.A. 3444107.

Bruce Allan Bell



YEAR 20 <u>16</u> 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.)
20 FEB	876.8			OIL/FILTER CHANGE, REFILLED w/ 7QT AEROSHELL 100W SAE 50 + CAM GUARD



Freeway Airport, Inc.
3900 Church Road, Mitchellville, MD 20721
301-262-6544 (p) 301-262-4967 (f)

Date: 10/14/2016; Aircraft: N6402U; Type: Mooney M20C; S/N: 2149; Tach: 879.10; Total Time: 8085.80; Engine - Type: O-360
-A1D, S/N: L23635-36A, Time: 6255.90, SMOH: 198.10; Prop - Type: HC-C2YK-1B/7666A-2, S/N: CH41680B, Time: 198.80,
SMOH: 198.80
Shop Order #: W00-160787

1. Replaced induction boot with new Mooney 600064-000.
2. Replaced scatt hose to muffler shroud inlet with new SC-N8
3. Adjusted propeller governor to 2675 IAW Lycoming operations manual.
4. Changed oil with 7QT's Aeroshell 100W, replaced oil filter with new AA48110-2, checked all oil screens for metal contamination.
5. Cleaned, gapped, and rotated all spark plugs.
6. Checked all cylinder compressions 1) 72/80, 2) 78/80, 3) 78/80, 75/80.
7. Serviced all fuel screens and drained carb bowl.
8. Lubed all engine controls and checked control travel.
9. Checked all AD's through FAA Biweekly 2016-20.

I certify that this Engine has been Inspected in accordance with Annual, and is found to be in an airworthy condition. Pertinent details are on file under this work order.

Signed:

Christopher A. Gibson

Christopher A. Gibson, for Freeway Airport Inc, CRS FK8R141Q

Date:

10-14-2016

YEAR 20 _____ DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
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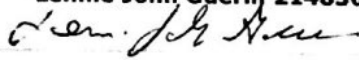
EGA Aviation, Inc.
2642 Airport Dr.
N. Las Vegas, NV 89032
(702) 683-7507

N6402U
Tach:0923.7

ENGINE LOGBOOK
WO#2951

4 Jan. 2018
TTSO:0242.7

C/W ANNUAL insp. IAW Mooney M20C checklist and MM. Comp. check as follows:
#1 74/80 #2 78/80 #3 78/80 #4 77/80. Oil and oil filter changed with 8 qts.
AEROSHELL 100+ and CH48110-1 filter. Cut prior filter for inspection with no
defects noted. Cleaned, insp., gapped and checked spark plugs. Installed spark
plugs with new gaskets and torqued IAW MM. Inspected, cleaned and installed
ignition leads. Checked mag. timing. Secured mag ."P" leads away from rubbing
engine baffle. Checked and tightened as needed all intake and exhaust flange
mounting hardware. Stop drilled small crack on R/H baffle by Cyl. #1 and L/H
baffle by Cyl. #4. Checked all engine controls for proper travel and lubed. Removed
and inspected fuel inlet screen with no defects noted. Reinstalled and secured for
leak check with no leaks noted at this time. Pressure checked exhaust system
with no defects or leaks noted at this time. Installed new engine inlet air filter
P/N 6108. Checked and tightened as needed all loose valve cover screws.
Insp. alternator and vacuum systems with no defects noted at this time.
Checked engine mount torques and found within limits IAW MM. Insp. 500 Hour
mag inspection due at Tach: 1265.2. Repaired small tear in scat hose for alternator
cooling. Insp. starter and tightened loose starter terminal. All AD,s checked
and C/Wed to date. Washed engine. Post maint. run up indicates all op,s normal
and no leaks noted at this time.
I certify this ENGINE has been inspected IAW a ANNUAL inspection and has
been determined to be in airworthy condition.

Lennie John Guerin 21483690 A/P IA


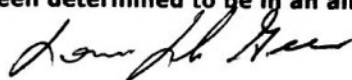
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EGA Aviation, Inc.
 2642 Airport Dr.
 N. Las Vegas, NV 89032
 (702) 683-7507

N6402U 0-360-A1D Engine Logbook S/N# L-23635-36 1 April 2019
 Tach:0951.7 WO#3846 TTSO:0270.7

C/Wed ANNUAL inspection IAW Mooney M20C checklist and maintenance. Comp. check as follows: #1 78/80 #2 78/80 #3 72/70 #4 76/80. Change oil and oil filter with 8 qts. AEROSHELL 100+and CH48110--1 oil filter. Cut prior filter for inspection with no defects noted Cleaned, inspected, gapped and checked spark plugs. Checked and mag timing and found within limits IAW engine data plate. Cleaned ignition leads. Reinstall spark plugs with new gaskets and torqued IAW MM. Checked all engine controls for proper travel and lubed. Pressure checked exhaust system with no defects or leaks noted at this time. Removed, inspected fuel inlet screen with no defects noted. Reinstall and secure screen for leak check with no leaks noted at this time. Checked and tightened all valve cover screws as needed. Checked and tighten as needed all intake and exhaust manifold attachment hardware. Install shims to lower engine mount and checked all engine mount torques and secured with new locking hardware. Installed intake manifold #3and4 with new gaskets and locking hardware. Remove oil cooler P/N 8001602 S/N 4655326 and install new oil cooler from AERO-Classics Heat Transfer Products under WO# 4655362 P/N 8001602 S/N 4655362. Ad 75-09-08 Engine mount inspection due at tach: 1093.7. All AD,s C/Wed to date. Post maintenance run up indicates all op,s normal and no leaks noted at this time.

I certify this ENGINE has been inspected IAW a ANNUAL inspection and has been determined to be in an airworthy condition.



Lennie John Guerin 21483690 A/P IA