

AIRCRAFT TECHNICAL LOGS

Section 3. ENGINE



Federal Aviation Administration

The United States of America
Department of Transportation
Federal Aviation Administration
Washington D.C.

No. E 419082

Export Certificate of Airworthiness

This certifies that the product identified below and particularly described in Specification(s)¹ of the Federal Aviation Administration, Numbered **1E10** has been examined as of the date of this certificate, is considered airworthy in accordance with a comprehensive and detailed airworthiness code of the United States Government, and is in compliance with those special requirements of the importing country filed with the United States Government except as noted below. This certificate in no way attests to compliance with any agreements or contracts between the vendor and purchaser, nor does it constitute authority to operate an aircraft.

Product: **Aircraft Engine**
Manufacturer: **Lycoming Engines**
Model: **IO-360-M1A**
Serial No: **L-33908-51E**

New: **X** Newly overhauled:

Used aircraft:

Country to which exported: **Canada**

Exceptions:

None


F.H. Hill, Jr.

Signature of Authorized Representative

November 01, 2007

Date

ODARF830878NE

District Office or Designee Number



¹ For complete aircraft, list applicable specification or type certificate data sheet numbers for the aircraft, engine, and propeller. Applicable specifications or type certificate data sheet, if not attached to this export certificate, will have been forwarded to the appropriate governmental office of the importing country.

LYCOMING

A Textron Company

**RECORD of ACCESSORIES
AND
MAJOR PARTS SHIPPED with ENGINE**

652 Oliver Street Williamsport, PA 17701 U.S.A.

Model No: **IO-360-M1A**Serial No: **L-33908-51E**Enpl: **ENPL-RT10051**Order No **MT303629**TC No: **1E10**Date: **10/31/2007**

Part Name	Part Number	Manufacturer	Serial	Setting
CARBURETOR				
INJECTOR	61J22633	PAM	70C89503	2576568-1
LT ALTERNATOR RT ALTERNATOR	32C19553	KELLY	H096847	
MAGNETO LEFT MAGNETO RIGHT MAGNETO DUAL LASER IGN CONT	66GR25SANN 66GP-0SANN	SLICK SLICK	07100563 07093048	
STARTER	31B22105	SKY-TEC	F4L-390716	
FUEL PUMP	LW-15473	LYC	3707 D/C	
IGN HARNESS L IGN HARNESS R LASER IGN HARNESS	67P20429 67P20428	SLICK SLICK		
SPARK PLUG	1182-S4	Unison/Autolite		
LT TURBOCHARGER RT TURBOCHARGER				
BYPASS VALVE				
DENSITY CONTR.				
PRESS. CONTR.				
AB PRESS REL.				
#1 INTERCOOLER #2 INTERCOOLER				
CRANKCASE MATCH NO. K0041	CRANKSHAFT SERIAL NO. V537949440			

All accessories listed are 0 (zero) time since New or 0 (zero) time since Overhaul.
All accessories are new unless part number is succeeded by -85 or -70.

Released: Inspector

160

Date: **10/31/2007**

C of A Issued Date:

11-1-07



NOTE: Form to be used on all New, Overhauled, Rebuilt Engine Models.

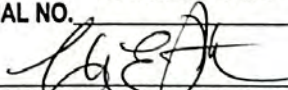
Form ET-001 (REV 03/05)

ENGINE LOG

1. Make	LYCOMING
2. Model	IO-360-M1A
3. Specification	1E10
4. Manufacturer's Serial Number	L-33908-51E
5. Date of Manufacture	
6. Aircraft Inspection Cycle	

NEW RECIPROCATING ENGINE CERTIFICATE

This is to certify that the engine as described hereinafter has been manufactured run-in and tested as prescribed by **LYCOMING** specifications and Federal Aviation Regulations. No further run-in is required. All applicable Federal Aviation Airworthiness Directives and Lycoming Service Bulletins have been complied with at time of Manufacture.

MODEL	IO-360-M1A	SERIAL NO.	L-33908-51E
DATE	OCT 31 2007	 (AUTHORIZED REPRESENTATIVE)	

LYCOMING
A Textron Company

LYCOMING ENGINES
652 Oliver Street
Williamsport, PA 17701 U.S.A.

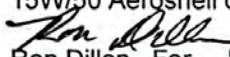
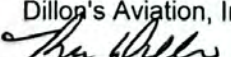
Form No. 777-B (Rev. 3/03)

ENGINE SERVICE AND

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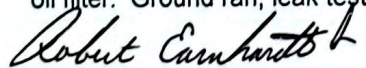
MAINTENANCE RECORD

1

REPAIRS, ADJUSTMENTS, MODIFICATIONS ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.	SIGNATURE	LICENCE NUMBER
40.892 →		
 <i>N Number</i> 892DS <i>Date</i> <i>TACH/HOBBS</i> 6/13/2008 54.3 <i>Log Entry</i> Changed oil and filter. Serviced with 1 ea CH48108-1 oil filter and 9 qts of 15W/50 Aeroshell oil. Refer to WO# G01401 on file at Dillon's Aviation, Inc.  Ron Dillon For Dillon's Aviation, Inc. AP239482895IA		
 <i>N Number</i> 892DS <i>Date</i> <i>TACH/HOBBS</i> 12/23/2008 96.2 <i>Log Entry</i> Complied with AD 2008-14-07 fuel injection lines inspection by inspection per Lycoming SB342E, next due 196.2. Complied with AD 2008-08-14 fuel servo by inspection, nut is secure, next due 146.2. Refer to WO# G01531 on file at Dillon's Aviation, Inc.  Ron Dillon For Dillon's Aviation, Inc. AP239482895IA		

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					
Date	TACH/HOBBS		ESMOH		ETT
1/15/2009	101.5				
Eng Entry					
Performed annual inspection on this engine in accordance with FAR 43 appendix D. Cleaned and gapped all spark plugs cleaned all air and fuel filters. Changed oil and filter. Serviced with 8 quarts Aeroshell 15W50 and CH48110 filter. Checked magneto points and timing. Performed compression check as follows: 1-79/80, 2-79/80, 3-79/80, 4-79/80. Checked and serviced all fluid levels, lubricated controls and washed aircraft. Checked MFG SB's to date. Checked applicable AD's for compliance to date. Performed all work in accordance with manufacturer service manual and standard practice as listed in FAR part 43 to return this engine to service. Refer to WO# G01527 on file at Dillon's Aviation, Inc. AD 2008-14-07 fuel injection line inspection c/w by inspection per this AD and per Lycoming S8342E, no defects, next due 201.5 or 1/10 whichever occurs first. AD 2008-08-14 fuel servo loose nut inspection c/w by inspection of nut per this AD and Precision Avionics SB PSR107.					
 Ron D. Dillon AP2394828951A					
 					
N Number 892DS					
Date	TACH/HOBBS				
5/21/2009	132.0				
Log Entry					
Changed oil and filter. Serviced with 8 qts Aeroshell 15-50 and 1 each CH48110 oil filter. Ground ran, leak test ok.					
 Robert Earnhardt, Jr., Aircraft Owner Certificate Number 3234603					
CARRIED FORWARD					
TOTAL THIS PAGE					
TOTAL FROM PREVIOUS SUMMARY					
TOTAL SINCE MFG.					

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 →					



N Number
N892DS

Date TACH/HOBBS
10/25/2010 237.5

Log Entry

Changed engine oil and filter. Serviced with 8 qts of 15W/50 Aeroshell oil and filter PN CH48110-1

Robbie Earnhardt
Robbie Earnhardt
3234603

Date	TACH/HOBBS	ESMOH	ETT
4/6/2011	262.3		262.3

Eng Entry

Performed annual inspection on this engine in accordance with FAR 43 appendix D. Cleaned and gapped all spark plugs, cleaned fuel filters. Replaced engine air filter with new PN FR-08504. Changed oil and filter. Serviced with 8 quarts Aeroshell 15W/50 and AA48110-2 filter. Checked magneto points and timing. Performed compression check as follows: 1-78/80, 2-76/80, 3-76/80, 4-76/80. Performed Power Flow exhaust inspection. Replaced muffler insert kit with new PN PFS-8016. Checked and serviced all fluid levels, lubricated controls and washed aircraft. Checked MFG SB's to date. Checked applicable AD's for compliance to date. Performed all work in accordance with Lycoming service manual and standard practice as listed in FAR part 43 to return this engine to service in airworthy condition. Refer to WO#G02140 on file at Dillon's Aviation, Inc. C/W AD 2008-14-01 Fuel injection lines per par (J) (K) & Lycoming MSB342E.

Stacy Clontz For Dillon's Aviation, Inc.
AP3069267IA



N Number
N892DS

Date TACH/HOBBS
4/18/2011 264.6

Log Entry

Removed this engine from airframe @ AFTT: 264.6 ETT:264.6. Refer to WO#G02152 on file at Dillon's Aviation, Inc.

Stacy Clontz For Dillon's Aviation, Inc.
AP3069267IA

TOTAL TH

TOTAL FROM PREVIOUS SUMMARY		
TOTAL SINCE MFG.		

MAINTENANCE RECORD

3

ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.

SIGNATURE

LICENCE
NUMBER

LYCOMING

A Textron Company

6/20/2011 Engine S/N L-33908-51E. Engine was disassembled and inspected. Cylinders honed. Engine was repaired. 11040157, fuel pump with 11040157, fuel pump with perishable items. Engine is airworthy and safe operating condition. 26-01), 475C (91-14-22), 51. File at Lycoming under work order #REP33908.

FOR: **LYCOMING**
A Textron Company
652 Oliver Street
Williamsport, PA 17701 USA
FAA Repair Station #EJIR115K

Form 302A (3-04-LM)

FOR:

LYCOMING

A Textron Company

Signature of Authorized Person

Signed

Date

Pertinent details of the work performed
Lycoming Engines under order no: **REP33908**

and inspected in accordance with current Regulations of the Federal Aviation Administration and is approved for return to service.

The aircraft engine or accessory identified above was:

Repaired

SERVICEABLE PART

Manufacturer

LYCOMING ENGINES

Part Name

AIRCRAFT ENGINE

Model No.

IO-360-M1A

Serial No.

L-33908-51E

Remarks

N Number
N892DS

Date **7/19/2011** TACH/HOBBS **264.6**

Log Entry

Engine was previously removed due to collapse of hangar door on aircraft. Reinstalled engine IO-360-M1A SN L-33908-51E after inspected and repaired by Textron Lycoming, see log entry dated 06/20/11 and WO #REP33908. Installed Reiff HotStrip Oil Sump Heater System per Installation/Operation Instructions HS 2010-10.doc. Refer to WO#G02220 on file at Dillon's Aviation, Inc.

Ladd J Maxson, Jr.
Ladd J Maxson, Jr. For Dillon's Aviation, Inc.
AP30643811A

Date **5/7/2012** TACH/HOBBS **297.9** ESMOH **297.9** ETT

Eng Entry

Performed annual inspection on this engine in accordance with FAR 43 appendix D. Cleaned and gapped all spark plugs cleaned all fuel filters. Changed oil and filter. Serviced with 8 quarts Aeroshell 15W/50 and AA48110-2 filter. Checked magneto points and timing. Performed compression check as follows: 1-78/80, 2-74/80, 3-74/80, 4-72/80. Checked and serviced all fluid levels, lubricated controls and washed aircraft. Checked applicable AD's for compliance to date. Performed all work in reference to Lycoming service manual and standard practice as listed in FAR part 43 to return this engine to service in airworthy condition. Refer to WO#G02378 on file at Dillon's Aviation, Inc. C/MV AD 2011-26-04 Fuel injection system by inspection per par (f)(h)(i) and Lycoming MSB342F, no discrepancies noted, next due AFTT 397.9 not to exceed AFTT 407.9.

Ladd J Maxson, Jr.
Ladd J Maxson, Jr. For Dillon's Aviation, Inc.
AP30643811A

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					

Date	TACH/HOBBS	ESMOH	ETT
5/31/2013	329.4		329.4

Eng Entry

Performed annual inspection on this engine in accordance with FAR 43 appendix D. Cleaned and gapped all spark plugs, cleaned fuel filters. Changed oil and filter. Serviced with 8 quarts Aeroshell 15W/50 and AA48110-2 filter. Checked magneto points and timing. Replaced #2 rocker cover gasket PN 75906. Performed compression check as follows: 1-78/80, 2-75/80, 3-78/80, 4-78/80. Checked and serviced all fluid levels, lubricated controls and washed aircraft. Checked applicable AD's for compliance to date. Performed all work in reference to Lycoming service manual and standard practice as listed in FAR part 43 to return this engine to service in airworthy condition. Refer to WO#G02616 on file at Dillon's Aviation, Inc.

C/W AD 2011-26-04 Fuel injection system by inspection per par (f)(h)(i) and Lycoming MSB342F, no discrepancies noted, next due AFTT 429.4 not to exceed AFTT 439.4

Stacy Clontz
Stacy Clontz For Dillon's Aviation, Inc.
AP30692671A

Date	TACH/HOBBS	ESMOH	ETT
5/30/2014	359.6		359.6

Eng Entry

Performed annual inspection on this engine in accordance with FAR 43 appendix D. Cleaned and gapped all spark plugs cleaned all air and fuel filters. Changed oil and filter. Serviced with 8 quarts Aeroshell 15W/50 and AA48110-2 filter. Checked magneto points and timing. Performed compression check as follows: 1-77/80, 2-75/80, 3-75/80, 4-77/80. Checked and serviced all fluid levels, lubricated controls and washed aircraft. Checked applicable AD's for compliance to date. Performed all work in reference to Lycoming service manual and standard practice as listed in FAR part 43 to return this engine to service in airworthy condition. Refer to WO#G02850 on file at Dillon's Aviation, Inc.

C/W AD 2011-26-04 Fuel injection system by inspection per par (f)(h)(i) and Lycoming MSB342F, no discrepancies noted, next due AFTT: 459.6 not to exceed AFTT: 469.6.

Ladd J Maxson, Jr.
Ladd J Maxson, Jr. For Dillon's Aviation, Inc.

Date	TACH/HOBBS	ESMOH	ETT
6/1/2015	380.4		380.4

Eng Entry

Performed annual inspection on this engine in accordance with FAR 43 appendix D. Cleaned and gapped all spark plugs cleaned all air and fuel filters. Changed oil and filter. Serviced with 8 quarts Aeroshell 15W/50 and AA48110-2 filter. Checked magneto points and timing. Performed compression check as follows: 1-77/80, 2-74/80, 3-78/80, 4-77/80. Checked and serviced all fluid levels, lubricated controls and washed aircraft. Checked applicable AD's for compliance to date. Performed all work in reference to Lycoming service manual and standard practice as listed in FAR part 43 to return this engine to service in airworthy condition. Refer to WO#G03085 on file at Dillon's Aviation, Inc.

C/W AD 2011-26-04 Fuel injection system by inspection per par (f)(h)(i) and Lycoming MSB342F, no discrepancies noted, next due AFTT: 480.4 not to exceed 490.4.

Ernest D. Rawls
Ernest D. Rawls For Dillon's Aviation, Inc.
AP2387643451A

MAINTENANCE RECORD

4

REPAIRS, ADJUSTMENTS, MODIFICATIONS				SIGNATURE	LICENCE NUMBER
ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.					
Date	TACH/HOBBS	ESMOH	ETT		
6/17/2016	397.5		397.5		
Eng Entry					
Performed annual inspection on this engine in accordance with FAR 43 appendix D. Cleaned and gapped all spark plugs cleaned all air and fuel filters. Changed oil and filter. Serviced with 8 quarts Aeroshell 15W/50 and AA48110-2 filter. Checked magneto points and timing. Performed compression check as follows: 1-78/80, 2-75/80, 3-78/80, 4-73/80. Checked and serviced all fluid levels, lubricated controls and washed aircraft. Checked applicable AD's for compliance to date. Performed all work in reference to Lycoming service manual and standard practice as listed in FAR part 43 to return this engine to service in airworthy condition. Refer to WO#G03359 on file at Dillon's Aviation, Inc. C/W AD 2015-19-07 Fuel injection system inspection per par (e)(1)(ii)(f) and per Lycoming MSB 342G, next due AFTT 507.5. <i>Ernest D. Rawls</i> Ernest D. Rawls For Dillon's Aviation, Inc. AP238764345IA					
Date	TACH/HOBBS	ESMOH	ETT		
7/20/2017	420.8		420.8		
Eng Entry					
Performed annual inspection on this engine in accordance with FAR 43 appendix D. Cleaned and gapped all spark plugs cleaned all air and fuel filters. Changed oil and filter. Serviced with 8 quarts Aeroshell 15W/50 and AA48110-2 filter. Checked magneto points and timing. Replaced #1, #2, and #3 valve cover gaskets with PN LW75906. Performed compression check as follows: 1-77/80, 2-76/80, 3-72/80, 4-76/80. Checked and serviced all fluid levels, lubricated controls and washed aircraft. Checked applicable AD's for compliance to date. Performed all work in reference to Lycoming service manual and standard practice as listed in FAR part 43 to return this engine to service in airworthy condition. Refer to WO#G03641 on file at Dillon's Aviation, Inc. C/W AD 2015-19-07 Fuel injections system inspection per par (e)(1)(ii) and per Lycoming MSB342G, next due AFTT: 530.8. <i>Ernest D. Rawls</i> Ernest D. Rawls For Dillon's Aviation, Inc. AP238764345IA					
Date	TACH/HOBBS	ESMOH	ETT		
8/10/2018	442.5		442.5		
Eng Entry					
Performed annual inspection on this engine in accordance with FAR 43 appendix D. Replaced 4 spark plugs with new UREM38E. Cleaned and gapped remaining spark plugs cleaned all air and fuel filters. Changed oil and filter. Serviced with 8 quarts Aeroshell 15W/50 and AA48110-2 filter. Checked magneto points and timing. Performed compression check as follows: 1-76/80, 2-72/80, 3-76/80, 4-73/80. Checked and serviced all fluid levels, lubricated controls and washed aircraft. Checked applicable AD's for compliance to date. Performed all work in reference to Lycoming service manual and standard practice as listed in FAR part 43 to return this engine to service in airworthy condition. Refer to WO#G03920 on file at Dillon's Aviation, Inc. *C/W AD 2015-19-07 Fuel injection system inspection per par (e)(1)(ii) and Lycoming MSB342G, next due AFTT: 552.5. <i>Ernest D. Rawls</i> Ernest D. Rawls For Dillon's Aviation, Inc. AP238764345IA					

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	→				

Date TACH/HOBBS ESMOH ETT
 10/1/2019 453.2 453.2

Eng Entry

Performed annual inspection on this engine in accordance with FAR 43 appendix D. Cleaned and gapped all spark plugs cleaned all air and fuel filters. Changed oil and filter. Serviced with 8 quarts Aeroshell 15W/50 and AA43110-2 filter. Checked magneto points and timing. Performed compression check as follows: 1-73/80, 2-72/80, 3-73/80, 4-74/80. Checked and serviced all fluid levels, lubricated controls and washed aircraft. Checked applicable AD's for compliance to date. Performed all work in reference to Lycoming service manual and standard practice as listed in FAR part 43 to return this engine to service in airworthy condition. Refer to WO#G04244 on file at Dillon's Aviation, Inc.

*C/W Power Flow Exhaust ICA, next due AFTT: 853.2 or 10/2020 whichever occurs first.

*C/W AD 2015-19-07 Fuel injection system inspection per par (e)(1)(ii) and Lycoming MSB342G, next due AFTT: 563.2.

Ernest D. Rawls
 Ernest D. Rawls For Dillon's Aviation, Inc.
 AP238764345IA

Total Flight Solutions

450 Airport Road, Louisburg, NC 27549. Tel: 919-497-5511 Ext-2

Date: 08/17/2021 Reg: N892DS Tach: 603.6

Engine: Serial # TSN
 L-33908-51E 603.6

I certify that an **Annual inspection** has been performed on this engine in accordance with Diamond DA40-180 manual and Lycoming operator's manual. Drained oil and replenished with 8 quarts Aeroshell 15W50 oil. Removed oil filter and screen and inspected no metal found. Installed new Champion CH48110-1 filter. Cleaned, gapped, tested and reinstalled all spark plugs. Inspected hoses, exhaust, fuel and induction systems and accessories. Inspected air filter. Checked and set magneto to engine timing. Performed a differential compression test cold results as follows: **#1 72/80 #2 72/80 #3 70/80 #4 70/80** AD's researched through Biweekly issue 2021-16/17 Complied with AD 2015-19-07 fuel injector lines clamps and fittings by inspection. No fault found. Next due at 703.6 AFTT or 12 months. Ran up engine, all indications normal. Engine determined to be airworthy and returned to service

Donald Berry 2685138 IA
 Donald Berry

	CARRIED FORWARD	
TOTAL THIS PAGE		
TOTAL FROM PREVIOUS SUMMARY		
TOTAL SINCE MFG.		

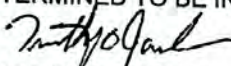
DATE: AUGUST 9, 2022 | LYCOMING IO-360-M1A | S/N: L-33908-51E | REG: N892DS
TACH: 487.1 HRS. TTE: 487.1 HRS.

ANNUAL INSPECTION COMPLETED THIS DATE IN ACCORDANCE WITH DIAMOND AIRCRAFT DA40 AMM, INSPECTION CHECKLIST, AND LYCOMING ENGINE REPAIR MANUAL.

CHECKED AD'S THROUGH 2022-16, NO NEW AD'S.

- **AD 2015-19** INSPECTION OF EXTERNAL FUEL INJECTOR LINES COMPLIED WITH FOLLOWING LYCOMING ENGINES MSB NO. 342G, DATED JULY 16, 2013. REINSPECT AFTER ANY MAINTENANCE IS DONE WHERE ANY CLAMP ON A FUEL INJECTOR FUEL LINE WAS DISCONNECTED, MOVED, OR LOOSENED AND WITHIN EVERY 110 HOURS TIS AND AFTER EACH ENGINE OVERHAUL. NO FAULTS NOTED. NEXT DUE AT **1095.9 HOURS TACH.**
- COMPRESSIONS: 1). 75/80, 2). 74/80, 3). 75/80, 4). 60/80.
- PERFORMED OIL CHANGE.
- CUT OIL FILTER, NO METAL NOTED.
- COLLECTED OIL SAMPLE FOR ANALYSIS TO BE COMPLETED BY BLACKSTONE LABORATORIES.
- SERVICED ENGINE WITH EIGHT QUARTS PHILLIPS 66 X/C AVIATION OIL 20W-50.
- REPLACED OIL FILTER, P/N:(AA48110-2).
- PERFORMED ICA FOR POWER FLOW EXHAUST.
- ADJUSTED MAG TIMING.

I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION.


TIMOTHY D JORDAN

A&P/IA 3264477

DATE: SEPTEMBER 1, 2023 | LYCOMING IO-360-M1A | S/N: L-33908-51E | REG: N892DS
TACH: 500.5 HRS. TTE: 500.5 HRS. TSMOH: N/A

ANNUAL INSPECTION COMPLETED THIS DATE IN ACCORDANCE WITH DIAMOND AIRCRAFT DA40 AMM, INSPECTION CHECKLIST, AND LYCOMING ENGINE REPAIR MANUAL.

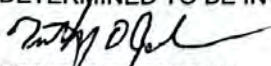
CHECKED AD'S THROUGH BI-WEEKLY2023-18

AD 2015-19 INSPECTION OF EXTERNAL FUEL INJECTOR LINES COMPLIED WITH FOLLOWING LYCOMING ENGINES MSB NO. 342G, DATED JULY 16, 2013. REINSPECT AFTER ANY MAINTENANCE IS DONE WHERE ANY CLAMP ON A FUEL INJECTOR FUEL LINE WAS DISCONNECTED, MOVED, OR LOOSENED AND WITHIN EVERY 110 HOURS TIS AND AFTER EACH ENGINE OVERHAUL. NO FAULTS NOTED. **NEXT DUE AT 610.5 HOURS TACH.**

COMPRESSIONS: 1). 76/80, 2). 73/80, 3). 73/80, 4). 72/80.

PERFORMED OIL CHANGE.
CUT OIL FILTER, NO METAL NOTED.
COLLECTED OIL SAMPLE FOR ANALYSIS TO BE COMPLETED BY BLACKSTONE LABORATORIES.
SERVICED ENGINE WITH EIGHT QUARTS PHILLIPS 66 X/C AVIATION OIL 20W-50.
REPLACED OIL FILTER, P/N:(AA48110-2).

I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION.


TIMOTHY D JORDAN

A&P/IA 3264477

DATE: SEPTEMBER 6, 2024 | LYCOMING IO-360-M1A | S/N: L-33908-51E | REG: N892DS
TACH: 512.3 HRS. TTE: 512.3 HRS. TSMOH: N/A

ANNUAL INSPECTION COMPLETED THIS DATE IN ACCORDANCE WITH DIAMOND AIRCRAFT DA40 AMM, INSPECTION CHECKLIST, AND LYCOMING ENGINE REPAIR MANUAL.

CHECKED AD'S THROUGH BI-WEEKLY2024-17

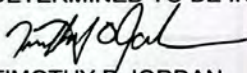
AD 15-19-07 INSPECTION OF EXTERNAL FUEL INJECTOR LINES COMPLIED WITH FOLLOWING LYCOMING ENGINES MSB NO. 342G, DATED JULY 16, 2013. REINSPECT AFTER ANY MAINTENANCE IS DONE WHERE ANY CLAMP ON A FUEL INJECTOR FUEL LINE WAS DISCONNECTED, MOVED, OR LOOSENED AND WITHIN EVERY 110 HOURS TIS AND AFTER EACH ENGINE OVERHAUL. NO FAULTS NOTED. **NEXT DUE AT 622.3 HOURS TACH.**

MSB40-033 COMPLIED WITH BY INSPECTION OF EXHAUST SYSTEM. NO DEFECTS NOTED.

COMPRESSIONS: 1). 76/80, 2). 78/80, 3). 77/80, 4). 79/80.

- PERFORMED OIL CHANGE.
- CUT OIL FILTER, NO METAL NOTED.
- COLLECTED OIL SAMPLE FOR ANALYSIS TO BE COMPLETED BY BLACKSTONE LABORATORIES.
- SERVICED ENGINE WITH EIGHT QUARTS PHILLIPS 66 X/C AVIATION OIL 20W-50.
- REPLACED OIL FILTER, P/N:(AA48110-2).

I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH AN 100 HOUR INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION.


TIMOTHY D JORDAN

A&P/IA 3264477

3. Form Tracking Number: SI223217	5. Work Order/Contract/Invoice POSTA	11. Status/Work: NEW	~Jun-01> DA4-2560-91-00 (RC2401982) 2401982) <2033-Jun-01> DA4-2560-91-00 60-91-00 (RC2401982) <2033-Jun-01> DA4-2560-9
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CARRIED FORWARD

TOTAL THIS PAGE		
TOTAL FROM PREVIOUS SUMMARY		
TOTAL SINCE MFG.		

next page



3330 AIRPORT LOOP
SALISBURY, NC 28147
OFFICE: 704-431-6862
INFO@SOUTHTECAVIATION.COM

DATE: OCTOBER 21, 2025 | LYCOMING IO-360-M1A | S/N: L-33908-51E | REG: N892DS
TACH: 516.9 HRS. TTE: 516.9 HRS. TSMOH: N/A

100 HOUR INSPECTION COMPLETED THIS DATE IN ACCORDANCE WITH DIAMOND AIRCRAFT DA40 AMM, INSPECTION CHECKLIST, AND LYCOMING ENGINE REPAIR MANUAL.

CHECKED AD'S THROUGH BI-WEEKLY2025-21

AD 15-19-07 INSPECTION OF EXTERNAL FUEL INJECTOR LINES COMPLIED WITH FOLLOWING LYCOMING ENGINES MSB NO. 342G, DATED JULY 16, 2013. REINSPECT AFTER ANY MAINTENANCE IS DONE WHERE ANY CLAMP ON A FUEL INJECTOR FUEL LINE WAS DISCONNECTED, MOVED, OR LOOSENED AND WITHIN EVERY 110 HOURS TIS AND AFTER EACH ENGINE OVERHAUL. NO FAULTS NOTED. **NEXT DUE AT 626.9 HOURS TACH.**

AD 2024-19-08 INSPECTION OF NOSE GEAR PIVOT AXLE, BY DYE PEN, NO DEFECTS NOTED **NEXT DUE TACH:626.9**

MSB40-033 COMPLIED WITH BY INSPECTION OF EXHAUST SYSTEM. NO DEFECTS NOTED.

COMPRESSIONS: 1), 76/80, 2), 78/80, 3), 77/80, 4), 79/80.

-REMOVED AND REPLACED INTAKE TUBE GASKETS AND O-RINGS, P/N 08-00343, 71973.

-REMOVED AND REPLACED PROPELLER GOVERNOR GASKET, P/N 70-00878.

-REMOVED AND REPLACED DIP STICK GASKET, P/N 08-00305.

-REPLACED OIL SUMP STRAINER GASKET, P/N 06E19769-1.00.

-RESEALED OIL SUMP DRAIN VALVE.

-REPLACED LEFT AND RIGHT BRAKE PUCK O-RINGS, P/N MS28775-224.

-PERFORMED OIL CHANGE.

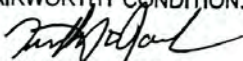
-CUT OIL FILTER, NO METAL NOTED.

-COLLECTED OIL SAMPLE FOR ANALYSIS TO BE COMPLETED BY BLACKSTONE LABORATORIES.

-SERVICED ENGINE WITH EIGHT QUARTS PHILLIPS 66 X/C AVIATION OIL 20W-50.

-REPLACED OIL FILTER, P/N:(AA48110-2).

I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH AN 100 HOUR INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION.


TIMOTHY D JORDAN

A&P/IA 3264477

MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.



A Textron Company

AIRWORTHINESS DIRECTIVE COMPLIANCE LIST

10/31/07

652 Oliver Street

Williamsport, PA 17701 U.S.A.

Engine Model No: IO-360-M1A

Engine SN: L-33908-51E

Page 1 of 2

AD NO. / SB	RV RV	Description / Method of Compliance	Next Due	Once	Rec	Code	Sign
2002-26-01 342	E	FUEL LINE AND SUPPORT CLAMP INSPECTION & INSTALL. NEW LINES INST. WITH NEW CLAMP	100 HOURS		X	1	3
2004-10-14 475	C	CRANKSHAFT GEAR MODIFICATION AND ASSY PROCEDURES NEW P/N INSTALLED	N/A		X	1	3
2005-19-11 566		Crankshaft replacement Replace Crankshaft	N/A		X	1	3
75-09-15 382		BENDIX FUEL INJ RS-43 INSP OF MOD OF FLOW DIVIDERS NEW P/N GASKET INSTALLED	N/A		X	1	3
93-11-11 N/A		AC, TEXTRON LYC FUEL PUMP O/H BY AERO ACCESSORIES NEW AC F/P INST. WHEN APPLIC.	N/A		X	1	3
94-01-03 N/A	R2	DEFECTIVE IGN COILS AND ROTATING MAGNETS NEW CONFIGURATION PART INST.	N/A		X	1	3
94-06-09 517		INCOMPLETE INTERNAL GROUNDING ON MAG CAPACITORS NEW CONF. CAPACITORS INSTALLED	N/A		X	1	3
96-23-03 525	A	HIGH PRESSURE FUEL PUMP INSTALLED LW-15473 NEWLY MANUFACTURED PUMPS INST.	N/A		X	1	3
97-15-11 527	C	RECALL OF PISTON PIN P/N LW-14077 NEW CONFIGURATION P/N INST.	N/A		X	1	3
98-02-08 530	A	INSPECTION OF CRANKSHAFT ID FOR CORROSION MAG INSP./APPLY URETHABOND 104	N/A		X	1	3
2002-12-07 543	B	OIL FILTER CONVERTER PLATE GASKET REPLACEMENT NEW P/N CONVERTER PLATE INSTALLED	N/A		X	2	
2003-14-03 529	B	ROTARY FUEL PUMP TORQUE. NEW PUMP WITH "M" SUFFIX INSTALLED	N/A			X	2
2006-06-16 566 Sup 1		Replace crankshaft Crankshaft replaced	N/A		X	2	
2006-20-09 569	A	CRANKSHAFT REPLACEMENT REPLACE CRANKSHAFT	N/A		X	2	
64-16-05 298	Inactive	AC FUEL PUMP OIL SEAL NEW CONF. FUEL PUMP INSTALLED	N/A		X	2	
66-06-03 302	A	REPLACEMENT OF CONNECTING ROD ASSY. NEW ROD CONFIGURATION	N/A		X	2	
66-20-04 307		OIL FILTER ADAPTER GASKET NEW CONF. GASKET INSTALLED	N/A		X	2	

Codes:

- 1 AD Applicable to Engine
- 2 AD Not Applicable to Engine
- 3 Field Compliance where applicable



10/31/07

652 Oliver Street

Williamsport, PA 17701 U.S.A.

Engine Model No: **IO-360-M1A**Engine SN: **L-33908-51E**

Page 2 of 2

AD NO. / SB	RV RV	Description / Method of Compliance	Next Due	Once	Rec	Code	Sign
67-22-06 305	4 B	REPLACEMENT OF BENDIX FUEL DIAPHRAGM ASSY NEW OR NEWLY O/H INSTALLED	N/A	X		2	
71-05-02 327	C	INSPECTION OF CENTER MAIN BEARING NEW INSTALLED	N/A	X		2	
71-11-02 328		REPLACEMENT OF EXH & INT HYD TAPPET PLUNGERS NEW P/N HYD TAPPETS INSTALLED	N/A	X		2	
73-23-01 367	F	INSP FOR CRACKS IN PISTON PINS INST NEW PARTS	N/A	X		2	
78-23-10 428		BENDIX FUEL INJ. BULLETIN RS-42 NEW P/N INSTALLED	N/A	X		2	
79-04-05 433	A	BENDIX FUEL INJ. BULLETIN RS-57 NEW P/N INSTALLED	N/A	X		2	
87-10-06 477	R1 A	INSPECTION AND REWORK OF LW-18790 ROCKER ARM ASSY NEW CONFIGURATION P/N INST.	N/A	X		2	
90-04-06 488	R1 A	PROPELLER GOVERNOR LINE SUPPORT NEW LINE W/STEEL CON. NUTS INS	N/A	X		2	
92-12-05 501	B	LW-14077 PISTON PIN NEW PARTS INSTALLED	N/A	X		2	
93-14-15 N/A		INST OF PLCKRD DENOTING OPER. NOT TO EXCEED 33.#HG FIELD COMPLIANCE AFTER STC	N/A	X		2	
95-07-01 N/A		CONNECTING ROD BOLT FAILURE LYCOMING PART INSTALLED	N/A	X		2	
95-26-02 398		ENGINES OPERATED WITH LOW OCTANE FUEL ENGINE IS NEW OR HAS BEEN REBUILT AT MANUFACTURER	N/A	X		2	
96-09-10 524		REPLACEMENT OF OIL PUMP IMPELLERS STEEL IMPELLERS INSTALLED	N/A	X		2	
98-17-11 N/A		CRANKSHAFT REPAIRED BY NELSON BALANCING SERVICE MAG/PARTICLE INSP OF C/SHAFT	N/A	X		2	

Codes:

- 1 AD Applicable to Engine
- 2 AD Not Applicable to Engine
- 3 Field Compliance where applicable



RECORD OF ENGINE

SS DIRECTIVES (A/D), SERVICE BULLETINS (S/B),

S/I, MODS

DETAILS OF



Date: **31 JANUARY, 2008** S/N: 40.892 Reg: N892DS
Engine S/N: L-33908-51E Eng TTSN: 4.6 HRS

The following S/B and S/I have been carried out as applicable:

DAI SI 40-005/Lycoming SB 342E/AWD 93-02-05 Fuel Line(stainless steel tube assy)
and support clamp Inspection and Installation New – Due every 100 hours.

SI 40-009(FAA AD 2002-26-01) – Externally mounted fuel injection lines – C/W

DAI SI 40-010- Repair of certain injection servos – N/A due to S/N of unit.

MSB 40-009 Improvement of ground-connection to Alternator – N/A by A/C S/N.

MSB 40-012 Replacement of Mixture Control Cable N/A as already Incorp. During mfg
Precision Airmotive Fuel Servo SB PRS-105 – N/A due to S/N of unit.

Textron Lycoming MSB 565 – Replacement of Diaphragm-Type Fuel Pumps P/N LW-
15473 with date code of 3201 – N/A as date code does not match installed on this A/C

Textron Lycoming MSB 548A/DAI SI 40-023 – Diaphragm-Type Fuel Pump – with a

date code of 0700 through 0401- N/A as date code does not match installed on A/C

Textron Lycoming MSB 574A – Cylinder Stud Hole Cross-Threaded – N/A by eng S/N

Textron Lycoming AD 2002-12-07-Prevent Complete loss of engine oil-N/A due to M/N

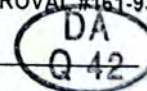
BI-weekly AWD check carried out to current revision 2008- **03**

The maintenance described above has been performed in accordance with the
applicable standards of airworthiness.

DIAMOND AIRCRAFT INDUSTRIES INC. D.O.T. APPROVAL #161-93

Signature _____

Lic or Stamp _____

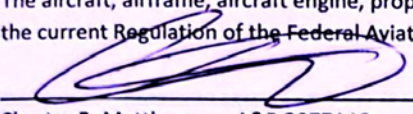


Greenville Jet Center 1 Aviation Lane Greenville, South Carolina 29607
Diamond DA40 N892DS S/N 40.892 Hobbs May 26, 2017

ENGINE

Removed and replaced #1-cylinder spark plugs, P/N REM38E. Operational check satisfactory.

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


Chester B. Matthew

A&P 3077146

3/26/17
DATE