


AIRCRAFT TECHNICAL LOGS

Section 3. ENGINE

1. Approving National Aviation Authority/Country FAA/UNITED STATES		2. AUTHORIZED RELEASE CERTIFICATE FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG		3. FORM TRACKING NUMBER 1203520 L-35603-51E	
4. ORGANIZATION NAME AND ADDRESS PRODUCTION CERTIFICATE #3 Lycoming Engines, 652 Oliver St., Williamsport, PA 17701				5. WORK ORDER, CONTRACT, OR INVOICE NUMBER: MS-407571	
6. ITEM	7. DESCRIPTION	8. PART NUMBER	9. ELIGIBILITY *	10. QTY.	11. SERIAL/BATCH NO.
3.1	Aircraft Engine	ENPL-RT10051	N/A	1	L-35603-51E ✓
12. STATUS/WORK NEW					
13. REMARKS ENGINE MODEL: IO-360-M1A - No Life Limited Parts					
Export Airworthiness Approval: This part meets the special requirements of Canada					
Limited life parts must be accompanied by maintenance history including time/total cycles/time since new.					
14. Certifies the items identified above were manufactured in conformity to: X Approved design data and are in a condition for safe operation. — Non-approved design data specified in Block 13.		19. <input checked="" type="checkbox"/> 14CFR 43.9 Return to Service <input type="checkbox"/> Other regulation in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43. In respect to that work, the items are approved for return to service.			
15. Authorized Signature: 		16. Approval/Authorization No.: ODA830878-NE		20. Authorized Signature:	
17. Name (Typed or Printed): F. H. HILL JR		18. Date (m/d/y): DEC-29-2011		21. Approval/Cert No:	
22. Name (Typed or Printed):		23. Date (m/d/y):			
USER/INSTALLER RESPONSIBILITIES					
It is important to understand that the existence of this Document alone, does not automatically constitute authority to install the part/component/assembly.					
Where the user/installer work in accordance with the national regulations of an Airworthiness Authority different than the Airworthiness Authority of the country specified in block 1, it is essential that the user/installer ensures that his/her Airworthiness Authority accepts parts/components/assemblies from the Airworthiness Authority of the country specified in block 1.					
Statements in block 14 and 19 do not constitute installation certification. In all cases maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.					



ENGINE LOG

- | | |
|----------------------------------|-------------|
| 1. Make: | Lycoming |
| 2. Model: | IO-360-M1A |
| 3. Specification: | 1E10 |
| 4. Manufacturer's Serial Number: | L-35603-51E |
| 5. Date of Manufacture: | Dec 2011 |
| 6. Aircraft Inspection Cycle: | |

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.	



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

Registration: N318DS
AC Serial Number: 40.1137
Engine Serial Number: L-35603-51E
Prop Serial Number: NS695B
Engine Total Time: 5.2 hrs

- Total Time Engine Brought forward from Flight Test Journey Log (DAI - Form Q-157): 5.2 hrs
- Engine installed new on Aircraft DA 40, S/N: 40.1137
- OIL CHANGE DUE @ 25 hrs
- Bi-weekly AWD check carried out to current revision 2012-04, all applicable AD's complied with, see attached
- The work described above was carried out IAW the applicable Standard of Airworthiness.

[Signature]
Inspector

FEB 13 2012

date

(Intentionally left blank below this point)

ENGINE MODEL:
IO-350-M1A
ENGINE S/N: L-35603-51E
REG. NO: 318DS
WORK ORDER:
4817-03-2012



Premier Aircraft Service, Inc.
Repair Station No. 9PRR402B
5540 NW 23rd Avenue Hanger 14
Fort Lauderdale, FL 33309
Phone: (954) 334-2399

DATE: 4/17/2012
A/C TSN: 32.7
ENG TT: 32.7
TACH: 32.7

Engine Entries

(6) COMPLIED WITH 25 HR INSPECTION PER DA40 CHECKLIST. CHANGED OIL AND FILTER. SERVICED WITH 8 QTS. OF AEROSHELL 100 MINERAL AND A NEW CH48110-1 OIL FILTER. OLD OIL FILTER WAS CUT OPEN AND INSPECTED FOR CONTAMINATION. NONE FOUND. INSPECTED SUCTION SCREEN FOR CONTAMINATION. NONE FOUND. ENGINE WAS GROUND RUN. OPS CHECK NORMAL AND NO LEAKS NOTED.

MAINTENANCE RELEASE: IN REFERENCE TO THE WORK PERFORMED, THIS AIRCRAFT, AIRFRAME, AIRCRAFT ENGINE, PROPELLER, AND / OR APPLIANCE WAS REPAIRED AND INSPECTED I.A.W. CURRENT REGULATIONS OF THE FEDERAL AVIATION ADMINISTRATION AND IS APPROVED FOR RETURN TO SERVICE. ALL WORK WAS PERFORMED IAW CURRENT APPLICABLE AIRCRAFT, ENGINE, OR APPLIANCE MAINTENANCE MANUALS AND INSTRUCTIONS. PERTINENT DETAILS ARE ON FILE AT THIS REPAIR STATION OFFICE.

DATE: 4/17/2012

SIGNED:

Adrian Arias
Certified Repair Station No. 9PRR402B

Work Order: 4817-03-2012

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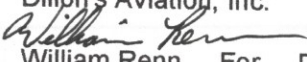
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MAINTENANCE RECORD

1


REPAIRS, ADJUSTMENTS, MODIFICATIONS ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.	SIGNATURE	LICENCE NUMBER
N Number N692CJ Date TACH/HOBBS 7/3/2012 79.7 Log Entry Changed engine oil and filter. Serviced with 8 qts of 15W/50 Aeroshell oil and AA48110-2 filter. Ground ran, no leaks noted. Refer to WO#G02426 on file at Dillon's Aviation, Inc.  William Renn For Dillon's Aviation, Inc. AP3579353		


Blue Ridge Airport Authority 525 Airport Rd, Martinsville, VA 24112 (276) 957-1109 Fax (276) 957-2292

Engine Date: 9/12/2012 Tail Number: N692CJ Aircraft Make/Model: Diamond Aircraft DA 40
Engine Make: Lycoming Engine Model: IO-360-M1A Tach: 138.1

Service performed: Drained oil and serviced with 7 quarts of Aeroshell 15W50. Removed oil filter, cut open and no contaminants were found. Installed, torqued and safetied one new AA48110-1 filter. Performed ground run and leak check and no leaks or defects were noted at this time.

All work listed above was done I/A/W Lycoming IO-360 Operators Manual and I/A/W FAR 43.9. In reference to the work listed above, this engine was found to be in an airworthy condition and is approved for return to service.


Kevin Campbell A&P3537913

N Number N692CJ Date TACH/HOBBS 11/9/2012 177.1 Log Entry Changed engine oil and filter. Serviced with 8 qts of 15W/50 Aeroshell oil and filter PN AA48110-2, no leaks noted. Refer to WO#G02502 on file at Dillon's Aviation, Inc.  Stacy Clontz For Dillon's Aviation, Inc. AP30692671A		
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MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.

ENGINE SERVICE AND

DATE	TIME RUN		TIME SINCE OVERHAUL		INSTALLATIONS, INSPECTIONS, <small>NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE</small>
	HRS.	MIN.	HRS.	MIN.	
2013					
BROUGHT FORWARD	→				

SouthTecAviation

Mobile (334) 728-6806

Date: Feb. 18. 2013. DA40-180 S/N 40.1137. Reg: N692CJ Tach: 241.8 TTE: 241.8

Drained oil and removed filter. Replaced filter with new AA 48110-2 Tempest filter

Filled engine with 7 qt. 15x50 Aeroshell oil.

Filter checked for metal and none found. System leaked checked OK.

Removed RH MLG Fairing and cleaned outside nut plate and reinstalled, checked PFS for

Security and all normal.

Aircraft Returned to service.

Glenn M. Lawler

Glenn M. Lawler

AP2151929IA

Mar 12 2013

SouthTecAviation
Mobile (334) 728-6806

Date: Mar. 12 2013 Lycoming M1A S/N L-35603-51E Reg: N692CJ
Tach: 593.5 hrs. TTE: 593.5 hrs.

100hr / Annual inspection completed this date I/A/W Diamond Aircraft DA40 AMM rev.6. Compression Test #1) 77/80, #2) 78/80, #3) 78/80, #4) 78/80.
Serviced with 8 qts AeroShell 15W50 Installed new AA48110 oil filter.
Inspected oil filter for metal and none was found.
Removed, inspected, and Gaped Spark Plugs. Reinstalled with new plug seal gaskets.
Ran Engine checked for leaks and adjusted Idle mixture.

AD's checked thru 03-12-2013.

I certify that this engine has been inspected I/A/W a 100hr/ Annual inspection and found to be in an airworthy condition.

Glenn M. Lawler

Glenn M. Lawler

AP 2151929 IA

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MAINTENANCE RECORD

2

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

SIGNATURE

LICENCE
NUMBER

JetLogistics
RESOLUTION

ENGINE 1 ENTRY

5400 Airport Dr. | Tel: 704-359-5230
Charlotte Douglas Int'l Airport | Fax: 704-359-0065

Date: 12 Jun 2013	Reg. #: N692CJ	Model: DA-40	Serial: 40.1137
Hobbs: 387.3	Acft Hrs: 387.3	Acft Cycles:	Work Order: N4166
Eng 1 Model: 10-360-MIA	Eng 1 Serial: IO-360	Eng 1 Hours:	Eng 1 Cycles:

SCHEDULED MAINTENANCE:

- 2.1. CHANGED OIL AND FILTER INSTALLED NEW P/N CH48110-1 FILTER SERVICED WITH 7 QUARTS AEROSHELL 15W50 OIL LEAK CHECKS GOOD.

This engine has been approved for return to service with respect to the inspections/maintenance performed above in accordance with FAR 91.409f(3).

Anthony Vlasak
Anthony Vlasak, A&P 2235976
Aircraft Technician

FOR ITEM(S) 2.1

N Number
N692CJ

Date 7/1/2013 TACH/HOBBS 336.8

Log Entry

Changed engine oil and filter. Serviced with 7 qts of 15W/50 Aeroshell oil and filter PN AA48110-2. Ground ran, no leaks noted. Refer to WO#G02647 on file at Dillon's Aviation, Inc.

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

N Number
N692CJ

Date 11/19/2013 TACH/HOBBS 386.8

Log Entry

Changed engine oil and filter. Serviced with 8 qts of 15W/50 Aeroshell oil and filter PN AA48110-2. Replaced #2 cylinder valve cover gasket PN 75906. Ground ran, no leaks noted. Refer to WO#G02735 on file at Dillon's Aviation, Inc.

William Renn
William Renn For Dillon's Aviation, Inc.
AP3579353

ENGINE SERVICE AND

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

Date	TACH/HOBBS	ESMOH	ETT
3/14/2014	436.0		436.0

Eng Entry

Performed annual inspection on this engine in accordance with FAR 43 appendix D. Cleaned and gapped 6 spark plugs, replaced #1 & #3 cylinder spark plugs with new UREM38E, cleaned fuel filters. Replaced engine air filter with new PN FR-08504. Changed oil and filter. Serviced with 7 quarts Aeroshell 15W/50 and AA48110-2 filter. Checked magneto points and timing. Performed compression check as follows: 1-78/80, 2-60/80, 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#G02795 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, next due AFTT: 536.0 not to exceed AFTT: 546.0

Ladd J Maxson, Jr.
Ladd J Maxson, Jr. For Dillon's Aviation, Inc.
AP3064381A

Date	TACH/HOBBS	ESMOH	ETT
4/24/2015	476.7		476.7

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 7 quarts Aeroshell 15W/50 and AA48110-2 filter. Checked magneto points and timing. Performed compression check as follows: 1-78/80, 2-76/80, 3-77/80, 4-78/80. Removed #2 cylinder and resurfaced exhaust seat and lapped, replaced exhaust valve PN SL19001A, 2 each exhaust valve key keepers PN MS13997-3, and gasket set PN SL12032-SC. Replaced #1 rocker cover gasket PN 75906. 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#G03066 on file at Dillon's Aviation, Inc. C/W AD 2011-26-04 Fuel injection system inspection per (f)(h)(i) and per Lycoming MSB342F, next due AFTT 576.7 not to exceed 586.7.

Ladd J Maxson, Jr.
Ladd J Maxson, Jr. For Dillon's Aviation, Inc.
AP3064381A

Date	TACH/HOBBS	ESMOH	ETT
5/5/2016	499.2		499.2

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 7 quarts Aeroshell 15W/50 and AA48110-2 filter. Checked magneto points and timing. Performed compression check as follows: 1-78/80, 2-77/80, 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#G03331 on file at Dillon's Aviation, Inc.

C/W AD 2015-19-07 Fuel injection system inspection per par (e)(1)(ii) and per Lycoming MSB342G, next due AFTT: 609.2

Ernest D. Rawls
Ernest D. Rawls For Dillon's Aviation, Inc.
AP238764345A

MAINTENANCE RECORD

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REPAIRS, ADJUSTMENTS, MODIFICATIONS

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

SIGNATURE


LICENCE
NUMBER

Date	TACH/HOBBS	ESMOH	ETT
5/25/2017	538.7		538.7

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 oil and AA48110-2 filter. Checked magneto points and timing. Performed compression check as follows: 1-78/80, 2-76/80, 3-78/80, 4-77/80. Replaced #1, #2, and #3 valve cover gaskets with new PN 75906. 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#G03611 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: 648.7.

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

		Blue Line Technical Services, LLC	
3149 B Swift Creek Rd.		(919)578-3728	
Smithfield NC, 27577		Engine	
Make: Diamond	Model: DA-40	12/18/17	
Reg. No. N692CJ	Lycoming IO-360-M1A		
	Hobbs: 776.9	Tach: 590.8	
Work Performed: Oil change performed. Drained oil and removed filter. Serviced with 8qts Aeroshell 15w50 and new filter AA48110-2. Replaced 3 missing valve cover screws in #3 cylinder. Ground run and leak check normal.			
Mark Chrest A&P 3228423	<i>Mark Chrest</i>	12/18/17	
Name/ Certificate No.	Signature	Date	

Date	TACH/HOBBS	ESMOH	ETT
5/22/2018	623.3		623.3

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. Replaced 2 each spark plugs with UREM38E. Replaced induction 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, 2-75/80, 3-76/80, 4-750/80. 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#G03846 on file at Dillon's Aviation, Inc. AD 2017-16-11 Connecting rod failure n/a due to engine SN L-35603-51E is not listed in Table 1 of Lycoming MSB632B and parts listed and ship dates listed in Table 2 of Lycoming MSB632B do not apply. C/W AD 2015-19-07 Fuel injection system inspection per par (e)(1)(ii) and Lycoming MSB342G, next due AFTT: 733.3.

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

ENGINE SERVICE AND

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

N Number
N692CJ

Date TACH/HOBBS
8/23/2018 **665.6**

Log Entry

Changed engine oil and filter. Serviced with 8 qts of 15W/50 and filter AA48110-2. Replaced #1, #2 and #3 cylinder valve cover gaskets PN 75906. Ground ran, no leaks noted. Refer to WO#G03941 on file at Dillon's Aviation, Inc.

William R. Renn For Dillon's Aviation, Inc.
AP3579353

N Number
N692CJ

Date TACH/HOBBS
1/11/2019 **716.8**

Log Entry

Replaced LH magneto with new Slick magneto PN 4370 SN 17070439.
Replaced RH magneto with new Slick magneto PN 4347 SN 18031141.
Cleaned and gapped all spark plugs. Replaced 5 each spark plugs with new UREM38E. Reinstalled fuel servo PN 2576568-1 SN 70E71803 after sublet repair by D&G Supply, see Form 8130-3 and WO#36554. Reinstalled flow divider after sublet bench test by D&G Supply, see Form 8130-3 and WO#36554. Ground and flight tested, ops checked good. Refer to WO#G04033 on file at Dillon's Aviation, Inc.

William R. Renn For Dillon's Aviation, Inc.
AP3579353

N Number
N692CJ

Date TACH/HOBBS
2/26/2019 **729.2**

Log Entry

Changed engine oil and filter. Serviced with 7 qts of Aeroshell 15W/50 oil and filter PN AA48110-2. Ground ran, no leaks noted. Refer to WO#G04083 on file at Dillon's Aviation, Inc.

John Tyler Griffin For Dillon's Aviation, Inc.
AP4110906

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PREVIOUS SUMMARY

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checked	AD/MSB/SB/SI	REV	Description	Next Due	Effectivity	method of compliance
Engines (FAA)						
X	2011-26-04		Externally Mounted Fuel Injector lines - supercedes 2008-14-07	100 hrs	See AD	SB 342 CW by Lycoming
X	2011-15-10		Lycoming /Superior Engines	N/A	Engines as listed in AD with Avstar Fuel Servos installed	N/A by inst
X	2009-26-12		Parallel Valve reciprocating engines - supercedes - 2008-19-05	N/A	ECI Clys only	N/A by inst
X	2009-02-03		Fuel injection servo plugs - supercedes 2008-08-14	NA	all - except if stamped "G"	found CW
X	2008-19-05		Parallel Valve reciprocating engines - superceded by - 2009-26-12	N/A	ECI Clys only	N/A by inst
X	2008-14-07		Externally Mounted Fuel Injector lines	100hrs	See AD	initial - CW BY LYCOMING
X	2008-08-14		Fuel injection servo plugs	N/A	superceded by 2009-02-03	N/A
X	2006-20-09		Crankshaft replacement	N/A	(L)IO-360	N/A by model
X	2006-12-07		ECI cylinder assemblies	N/A	See AD	N/A by inst
X	2006-06-16		crankshaft	N/A	See AD	N/A - by model
X	2004-10-14		Crankshaft Gear	as req'd	See AD	new p/n inst'd - CW by Lycoming
X	2003-14-03		Rotary Fuel pumps	N/A	See AD	N/A - by model
X	98-02-08		Crankshaft	N/A	See AD	CW BY LYCOMING
X	97-15-11		Recall of Piston Pin	N/A	P/N LW-14077	new config p/n inst'd - CW by Lycoming
X	96-23-03		High Pressure fuel pumps	N/A	LW-15473 Fuel Pump	New Pump inst'd - CW by Lycoming
X	96-09-10		oil pump	N/A	See AD	N/A - by model
X	75-09-15		fuel starvation to the engine	N/A	See AD	new p/n gasket inst'd - CW by Lycoming
X	75-08-09		oil pump drive shaft	N/A	See AD	N/A - new
X	73-23-01		Piston Pin Assembly	N/A	See AD	N/A - by model
X	66-20-04		Oil filter adapter gasket	N/A	N/A	N/A - by model
Engines (EASA)						
X	2008-19-05		ECI cylinders	NA	NA	NA - not installed
X	2006-0295 E		contamination of the engine fuel system	NA	40.448 - various to 40.569	NA by SN
X	2005-023F3		Exhaust valve and guide- inspection	1000 hrs	See AD	See SB 388

checked	AD/MSB/SB/SI	REV	Description	Next Due	Effectivity	method of compliance
Engine (TC)						
X	2009-02-03		Fuel injection servo plugs - supercedes 2008-08-14	NA	all - except if stamped "G"	found CW
X	CF-2005-40		Non-Conformance of Maintenance on Piston Engines	NA	NA	NA - new engine
X	CF-90-03R2		Exhaust type cockpit/cabin heaters (muff) inspect pipes + tubes to detect deterioration	annual / 150 hrs which ever occurs first	ALL	NA by TT
X	F-2005-023		Engines Overhauled by Providence Aero Maintenance	NA	NA	NA - new engine
X	2008-19-05		Engine Components Inc. (ECI) - Cylinder assembly part number AEL65102 series *Titan and with cylinder head part number AEL65099 installed.	NA	NA	NA by inst.
X	2008-14-07		failure of the fuel injector fuel lines.	100hrs	See AD	CW BY LYCOMING
X	2008-08-14		Precision Airimoto LLC, RSA-5 or RSA-10 series fuel injection servo as indicated within this Directive.	N/A	all - except if stamped "G"	found CW
X	2007-04-19R1		Cylinder separation	N/A	See AD	NA - SAP clys not installed - new engine
X	2006-12-07		To prevent loss of engine power due to cracks in the cylinder assemblies and possible engine failure caused by separation of a cylinder head.	N/A	ECI Clys only: See AD	N/A by inst
X	2006-06-16		Crankshaft failure	N/A	See SB 566	CW by Lycoming
X	2005-19-11		Crankshafts	N/A	See AD	CW by Lycoming
X	2004-10-14		CRANKSHAFT GEAR RETAINING BOLT	N/A	See AD	CW by Lycoming
X	2003-14-03		TORQUE CHECK INSPECTION OF ROTARY FUEL PUMPS	N/A	See AD	CW BY LYCOMING - new pump installed suffix "M"
X	98-02-08		CRANKSHAFT INSPECTION	N/A	See AD	CW by Lycoming
X	96-23-03		HIGH PRESSURE FUEL PUMP	N/A	See AD	CW by Lycoming
X	96-09-10		ENGINE OIL PUMP IMPELLERS	N/A	See AD	N/A - by Lycoming
X	95-07-01		CONNECTING ROD BOLTS	N/A	See AD	N/A
X	94-06-09		Incomplete grounding on mag capacitors	N/A	See SB	CW BY LYCOMING
X	93-11-11		FUEL PUMPS	N/A	See AD	N/A

checked	AD/MSB/SB/SI	REV	Description	Next Due	Effectivity	method of compliance
X	91-08-07		FUEL PUMP VENT HOSE FITTING LEAK CHECK	N/A	See AD	N/A - no turbo charger
X	75-08-09		oil pump drive shaft	N/A	See AD	N/A - new
X	75-09-15		FUEL FLOW DIVIDER COVER GASKET	N/A	See AD	CW by Lycoming
X	73-23-01R4		PISTON PINS	N/A	See AD	N/A
X	66-20-04		OIL FILTER ADAPTER GASKET	N/A	See AD	CW by Lycoming
Lycoming SBs						
X	SB-585		Exhaust Valve Rotator Cap	N/A	N/A by engine model	N/A
X	SB-584	B	Reprint of MANDATORY Unison Service Bulletin No. SB3-08	see SB	see SB for list	NA by SN
X	SB-583	A	Reprint of MANDATORY Unison Service Bulletin No. SB3-08	see SB	see SB for list	NA by SN
X	SB-582	A	Reprint Precision Airimoto MSA-13 - Carburetor Floats	NA	see SB	NA - by fuel system
X	SB-581	A	Reprint of Precision Airimoto MANDATORY Service Bulletin Nos. PRS-107, Rev. 1 and PEX-1	N/A	all - except if stamped "G"	N/A - gasket replaced / nut stamped "G"
X	SB-580		Reprint of Kelly Aerospace Service Bulletin No. 029	N/A	TIO-540 engines	N/A by engine model
X	SB-579		Clearance Between Oil Sump Assembly and Oil Sump Baffle	N/A	540 / 580	N/A by engine model
X	SB-578		Incorrect Cylinder Assemblies Shipped With Cylinder Kits	N/A	cyl kits only	N/A
X	SB-577	A	Sky-Tec PM Model Starter Replacement	N/A	see SB for list	N/A by engine model / starter PN
X	SB-576		Reprint of Teledyne Continental Ignition Systems Service Bulletin No. SB 633A	N/A	TCM/Bendix Mags	N/A by model
X	SB-574A	A	Cylinder Stud Hole Cross-Threaded	N/A	see SB, table 1	NA By SN
X	SB-573		Pressurized Magneto Pressure Tests	N/A	see SB for list	N/A by model
X	SB-573S-1		Supplement to Pressurized Magneto Pressure Tests	N/A	see SB for list	N/A by model
X	SB-572		Missing Oil Passage Hole at Idler Shaft Location	N/A	O-235 engines	N/A by model
X	SB-571		Reprint of Sky-Tec Service Bulletin No. 2006-3-1 (Replacement of Specified Sky-Tec Starters - Model 31B22101/149-24PM)	N/A	IO-540	N/A by model
X	SB-569A	A	Crankshaft Retirement for Certain Lycoming Engines	N/A	see SB 566	see SB566
X	SB-568		Reprint of Slick Aircraft Products Service Bulletin No. SB1-888	N/A	pressurized magnetos only	N/A By magneto PN

checked	AD/MSB/SB/SI	REV	Description	Next Due	Effectivity	method of compliance
X	SB-566S-1		Additional 360 Engines with Suspect Crankshafts	N/A	see SB 566	N/A
X	SB-566		Crankshaft Replacement in Lycoming Engines	N/A	see SB	CW by Man
X	SB-565		Diaphragm-Type Fuel Pump Inspection/Replacement	N/A	Fuel pump PN-LW15473	N/A by pump date code
X	SB-564	A	Inspection of Suction Screen Length	N/A	NA	N/A by Model
X	SB-561		Connecting Rod Bearing Replacement on LJTIO-540/U2A, V2AD, and W2A Engines	N/A		N/A by Model
X	SB-559		Reprint of Kelly Aerospace Power Systems (Formerly Electrosystems) S.B. No A-112, Rev. A	N/A	See SB, Kelly Aerospace starters	N/A by starter model
X	SB-558		Inspection of Oil Suction Screen Area in IO-540/AE1AS Oil Sump for Casting Voids	N/A	See SB	N/A by engine model
X	SB-557		Fuel Injector, Precision Airimoto Corp. Service Bulletin No. PRS-105, "Servo Metered Fuel Pressure Port Leakage"	N/A	RSA-5, RSA-10 fuel servos	N/A by Date
X	SB-556		P/N LW-11201 Washer, Replacement	N/A	See SB	N/A by engine model
X	SB-555A		Inspection, Oil Pump Body Plug	N/A	See SB	N/A by shipping date
X	SB-554S-5		Supplement No. 5 to S.B. 554	N/A	See SB	N/A by engine model
X	SB-554S-4		Supplement No. 4 to S.B. 554	N/A	See SB	N/A by engine model
X	SB-554S-3		Supplement No. 3 to S.B. 554	N/A	See SB	N/A by engine model
X	SB-554		Bolt, Crankshaft Gear Retaining, Replacement	N/A	See SB	N/A by engine model
X	SB-553S-1		Supplement No. 1 to Service Bulletin No. 553	N/A	See SB	N/A by engine model
X	SB-553		Crankshaft Inspection for Lycoming Six Cylinder Turbocharged Engines (Refer to Supplement No. 1 to S.B. 553)	N/A	See SB	N/A by engine model

checked	AD/MSB/SB/SI	REV	Description	Next Due	Effectivity	Method of compliance
X	SB-552S-1		Supplement No. 1 to Service Bulletin No. 552	N/A	See SB	N/A by engine model
X	SB-552		Crankshaft Replacement in Lycoming TIO and LTIO-540 Engines Rated at 300 Horsepower and Higher (Refer to Supplement No. 1 to S.B. 552)	N/A	See SB	N/A by engine model
X	SB-549S-1		Supplement No. 1 to Service Bulletin No. 549	N/A	See SB	N/A by engine model
X	SB-549		Crankshaft/Engine Inspection (Refer to Supplement No. 1 to S.B. 549)	N/A	See SB	N/A by engine model
X	SB-548A	A	Diaphragm-Type Fuel Pump Inspection/Replacement	N/A	See SB	N/A by pump date code
X	SB-547S-1		Supplement No. 1 to Service Bulletin No. 547	N/A	See SB	N/A by engine model
X	SB-547		Bearing Replacement, Connecting Rod on TIO-540-AE2A Model Engines (Refer to Supplement No. 1 to S.B. 547)	N/A	See SB	N/A by engine model
X	SB-545A	A	Filler Tube, Oil, Replacement	N/A	See SB	N/A by engine model
X	SB-544B	B	Bearing Replacement, Part Identification	N/A	See SB	N/A by engine model
X	SB-543B	B	Converter Plate Gasket, Oil Filter, Replacement	N/A	See SB	N/A by engine model
X	SB-539A		Fuel Pump, Lear Romec Service Bulletins No. RG9060-73-001, No. RG9570-73-001, and No. RG17980-73-001, "Replacement of Valve Housing and Related Seals"	N/A	See SB	N/A by date
X	SB-533A		Engine Stoppage, Recommendations Regarding Accidental	As Req'd	ALL	As required - see SB
X	SB-530B	B	Coating, Protective, Application on Crankshaft	N/A	See SB	NA by engine model
X	SB-529B-1	B	Fuel Pump, Lear Romec Service Bulletin No. 1015B020, "Torquing of Relief Valve Cover Screws"	N/A	See SB	N/A - "M" suffix pump installed by Lycoming
X	SB-524S-1		Supplement No. 1 to Service Bulletin No. 524	N/A	See SB	N/A - by Lycoming
X	SB-524		Aluminum and Sintered Iron Oil Pump Impellers, Replacement (Refer to Supplement No. 1 to S.B. 524)	N/A	See SB	N/A - by Lycoming
X	SB-517		Incomplete grounding on mag capacitors	N/A	See SB	C/W BY LYCOMING

checked	AD/MSB/SB/SI	REV	Description	Next Due	Effectivity	Method of compliance
X	SB-505B	B	Crankshaft ID, Inspection for Corrosion	NA	See SB	N/A - stopped after Feb 15, 1987
X	SB-480E	E	I. Oil and Filter Change and Screen Cleaning II. Oil Filter/Screen Content Inspection	25 hrs	All	C/W during maintenance
X	SB-475C	C	Crankshaft Gear Modification and Assembly Procedures	NA	See SB	C/W BY LYCOMING
X	SB-446E	E	Use of Lycoming LW16702 Oil Additive	NA	See SB	NA by engine model
X	SB-398		Fuel, Recommendations Regarding Use of unspecified fuel type	As Req'd	All	N/A
X	SB-388C	C	Exhaust Valve and Guide, Procedure to Determine Condition (Refer to S.B. 388)	1000 hrs	All	Hi-chrome exhaust valves installed, next due at 1000hrs
X	SB-382		Bendix fuel inj RS-43 insp of mod of flow dividers	NA	see SB / AD	C/W BY LYCOMING
X	SB-369J	J	Engine Inspection After Overboost/Overspeed	any overspeed condition 3 seconds or greater	All IO-360 series. See SB for table	NA - no overspeed noted during production flight test
X	SB-342E	E	Fuel Line and Support Clamp Inspection and Installation	100 hrs	ALL	Initial Insp - C/W BY LYCOMING
X	SB-366B	B	Carburetor Throttle Body Screw Inspection	NA	See SB	NA by inst.
X	SB-240T	T	Parts Replacement, Mandatory, at Normal Overhaul and During Repair or Normal Maintenance	@ overhaul or repair as req'd	All	NA

Authorizing Signature

DA
INSPECTOR

FEB 13 2012

DATE

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Engine Model No: **IO-360-M1A**Engine SN: **L-35603-51E****Nov 7, 2011**

AD No. / Rev	SB / rev	Description /	Method of Compliance	Next Due	Code
75-09-15	382	BENDIX FUEL INJ RS-43 INSP OF MOD OF FLOW DIVIDERS	NEW P/N GASKET INSTALLED	N/A-Once	1
94-01-03 / R2	N/A	DEFECTIVE IGN COILS AND ROTATING MAGNETS	NEW CONFIGURATION PART INST.	N/A-Once	1
94-06-09	517	INCOMPLETE INTERNAL GROUNDING ON MAG CAPACITORS	NEW CONF. CAPACITORS INSTALLED	N/A-Once	1
96-23-03	525 / A	HIGH PRESSURE FUEL PUMP INSTALLED LW-15473	NEWLY MANUFACTURED PUMPS INST.	N/A-Once	1
97-15-11	527 / C	RECALL OF PISTON PIN P/N LW-14077	NEW CONFIGURATION P/N INST.	N/A-Once	1
98-02-08	530 / B	INSPECTION OF CRANKSHAFT ID FOR CORROSION	MAG INSP./APPLY URETHABOND 104	N/A-Once	1
2004-10-14	475 / C	CRANKSHAFT GEAR MODIFICATION AND ASSY PROCEDURES	NEW P/N INSTALLED	N/A-Once	1
2005-19-11	566	Crankshaft replacement	Replace Crankshaft	N/A-Once	1
2008-14-07	342 / E	FUEL LINE AND SUPPORT CLAMP INSPECTION & INSTALL.	NEW LINES INST. WITH NEW CLAMP	100 HOURS	1
2009-02-03	581	Inspection of Precision Airmotive Hex Plug in regulator cover	New improved gasket P/N 2577258 installed	N/A-Once	1
2011-15-10	596	Avstar Fuel System fuel servo diaphragm	New configuration diaphragm installed	N/A-Once	1
64-16-05	298 / Inacti	AC FUEL PUMP OIL SEAL	NEW CONF. FUEL PUMP INSTALLED	N/A-Once	2
66-06-03	302 / A	REPLACEMENT OF CONNECTING ROD ASSY.	NEW ROD CONFIGURATION	N/A-Once	2
66-20-04	307	OIL FILTER ADAPTER GASKET	NEW CONF. GASKET INSTALLED	N/A-Once	2
67-22-06 / 4	305 / B	REPLACEMENT OF BENDIX FUEL DIAPHRAGM ASSY	NEW OR NEWLY O/H INSTALLED	N/A-Once	2
71-05-02	327 / C	INSPECTION OF CENTER MAIN BEARING	NEW INSTALLED	N/A-Once	2
71-11-02	328	REPLACEMENT OF EXH & INT HYD TAPPET PLUNGERS	NEW P/N HYD TAPPETS INSTALLED	N/A-Once	2
73-23-01	367 / F	INSP FOR CRACKS IN PISTON PINS	INST NEW PARTS	N/A-Once	2
78-23-10	428	BENDIX FUEL INJ. BULLETIN RS-42	NEW P/N INSTALLED	N/A-Once	2
79-04-05	433 / A	BENDIX FUEL INJ. BULLETIN RS-57	NEW P/N INSTALLED	N/A-Once	2
87-10-06 / R1	477 / A	INSPECTION AND REWORK OF LW-18790 ROCKER ARM ASSY	NEW CONFIGURATION P/N INST.	N/A-Once	2
90-04-06 / R1	488 / A	PROPELLER GOVERNOR LINE SUPPORT	NEW LINE W/STEEL CON. NUTS INS	N/A-Once	2
92-12-05	501 / B	LW-14077 PISTON PIN	NEW PARTS INSTALLED	N/A-Once	2
93-14-15	N/A	INST OF PLCKRD DENOTING OPER. NOT TO EXCEED 33.#HG	FIELD COMPLIANCE AFTER STC	N/A-Once	2
95-07-01	N/A	CONNECTING ROD BOLT FAILURE	LYCOMING PART INSTALLED	N/A-Once	2
95-26-02	398	ENGINES OPERATED WITH LOW OCTANE FUEL	ENGINE IS NEW OR HAS BEEN REBUILT AT MANUFACTURER	N/A-Once	2
96-09-10	524	REPLACEMENT OF OIL PUMP IMPELLERS	STEEL IMPELLERS INSTALLED	N/A-Once	2
98-17-11	N/A	CRANKSHAFT REPAIRED BY NELSON BALANCING SERVICE	MAG/PARTICLE INSP OF C/SHAFT	N/A-Once	2
2002-12-07	543 / B	OIL FILTER CONVERTER PLATE GASKET REPLACEMENT	NEW P/N CONVERTER PLATE INSTALLED	N/A-Once	2
2003-14-03	529 / B	ROTARY FUEL PUMP TORQUE.	NEW PUMP WITH "M" SUFFIX INSTALLED	N/A	2
2006-06-16	566 sup 1	Replace crankshaft	Crankshaft replaced	N/A-Once	2
2006-20-09	569 / A	CRANKSHAFT REPLACEMENT	REPLACE CRANKSHAFT	N/A-Once	2

Codes: 1 AD Applicable to Model

2 AD Not Applicable to Model

3 Field Compliance where applicable

DETAILS OF

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