

N957TA

ENGINE LOG BOOK

 **LYCOMING.**

Engine Log & Maintenance Record

LOG #: 1

RECORD OF Lycorning IO-360-L2A RL-29418-51E
(MAKE) (MODEL) (SERIAL)

AIRCRAFT REGISTRATION NUMBER: N957TA

FROM 12/29 2015 TO _____ 20____

DETAILING TIME FROM 0.0 TO _____
(HOURS) (HOURS)

If used on a multi-engine aircraft: ____Right ____Left ____Front ____Rear

Rebuilt Reciprocating Engine Certificate

This is to certify that this engine as described hereinafter has been REBUILT in accordance with the applicable Lycoming specifications. It has been determined airworthy to return to service and is in a condition for safe operation. All applicable Federal Aviation Administration Airworthiness Directives and Lycoming Service Publications have been complied with. All accessories as part of the type certificate are new or newly rebuilt. Refer to enclosed Form ET001 for applicable accessory part numbers and serial numbers.

LYCOMING

Part Number: RENPL-RT10230
Serial Number: RL-29418-51E
Engine Model: IO-360-L2A
Work Order: HP622667
Total Time: 0.0

Authorized Representative

Date

Production Certificate #3

Williamsport, PA 17701 U.S.A.
Lycoming Engines is a Division of Avco Corporation

Form 2481 Rev 05/13

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591014

Date	Time Run [Hours]	Total Time Since Overhaul	Repairs, Adjustments, Service, Remarks	Signature	Licence #
1986 Feb 06/Chick			Replaced left vacuum pump with model# ASH-150P in OAHMIS, replaced right vacuum pump with model# ASH-150P in OAHMIS, checks performed by Ann Hestonley #A0106CE Torqued and greased with new grease in accordance with Licensing service manual. Replaced defective EGT probe with new 86317 probe. Test ran and ground copperhead checks OK at this time. See [redacted] AP [redacted]		
N957FA March 8, 2016			Airframe Logbook Entry Comerstone Aviation LLC 1. Reinsured top cowlings with new hardware as required after disassembly. Work performed by Greg Wornoff 2. Replaced lower cowling bearings in accordance with the log book with new 8635-53 per Licensing Service Manual.	Tech: 4625.8 [redacted] Rachel Kleber A [redacted]	
N957FA March 8, 2016			Powerplant Logbook Entry Comerstone Aviation LLC 1. Installed alarm oil float switch in engine and took a 30-minute oil system pressure reading with TDS of Amprobe 15W50 per Licensing manual.	Tech: 4625.8 [redacted] Rachel Kleber A [redacted]	
N957FA March 29, 2016			Powerplant Logbook Entry Comerstone Aviation LLC 1. Serviced the fuel safety system and diagnosed with a bad safety PIN 941899 per 913541-10. Reinstalled plug & 1 disconnected gasket was installed per licensing service manual. NO Malfunction.	Tech: 4625.8 [redacted] Rachel Kleber A [redacted]	
I957FA March 29, 2016			Powerplant Logbook Entry Comerstone Aviation LLC 1. Serviced and rotated spark plugs in accordance with Comerstone service manual. Checked and torqued as required in accordance with Licensing manual.	Tech: 4625.8 [redacted] Rachel Kleber A [redacted]	

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Total to Date: _____

Serial #

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All repair data must bear the endorsement of a certified mechanic, and his/her rating as an ASE technician must be shown.

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all repair data must bear the endorsement of a certified mechanic, and his/her rating and certificate number **MUST** be shown.

Engine Log

Series •

Date	Time Run (Hours)	Total Time Since Overhaul	Repairs, Adjustments, Service, Remarks	Signature	License #
			Powerplant Logbook Entry Comarstone Aviation LLC	Tach 4822.2	
			1. Removed and then (open oil filter, and inspected for any unusual contamination with none noted. Drained oil, and installed new filter (PN CH48116-1) torqued and sealed in accordance with Champion maintenance manual.		
			2. Serviced on condition screen and reinstalled with new spark (PN MS 26759-21) torqued and sealed in accordance with Lycoming service manual. No leaks noted.		
			3. Serviced fuel servo screen, and reinstalled with over-racing (PN 95351-16, and 551765) torqued and sealed in accordance with Lycoming service manual. No leaks noted.		
			4. Checked magnetos in engine being in accordance with Lycoming service manual, no discrepancies noted.		
			Alden Bullock A&P [redacted]		
			Powerplant Logbook Entry Comarstone Aviation LLC	Tach 4822.2	
			1. Conducted a compression check per Lycoming Direct Drive Overhaul Manual at 75/80 42 75/80 43 75/80 44 75/80.		
			2. Collection oil filter serviced by Alden Bullock. Reinstalled per Lycoming service manual.		
			3. Removed spark plugs. Serviced, rotated, installed, torqued spark plugs, and resealed wash in accordance with Lycoming service manual.		
			4. Drained with AD 15-15-07 by inspection at the fuel injector opening and fuel system. No discrepancies noted. AD next fuel test 4822.2 to which will be accompanied on the fuel system issues in logs. (Signature) Alden Bullock		
			5. Applied heat and shaly crankcase (LOTO) container was released via standard practice.		
			6. Turned off filter discharge and replaced gaskets with new (PN 72051, Reinstalled (the valve and torqued (and) (if) (if) per Lycoming service manual. (Signature) Alden Bullock		
			7. Updated AD compliance sheet: 2016-08.		
			Alden Bullock A&P [redacted]		
			Powerplant Logbook Entry Comarstone Aviation LLC	Tach 4822.2	
			1. Serviced engine with 4 quarts Aeroshell XSW50 oil. No leaks noted.		
			I certify that this engine has been inspected in accordance with a 100 Hour inspection and was determined to be in an airworthy condition.		
			Gregory T. Woodruff A&P [redacted]		
6-14-16	Tach 4879.9		Changed engine oil, had [redacted] [redacted] [redacted] Serviced engine Tach 4879.9 to 4882.2. No leaks noted. [redacted] [redacted] [redacted]		

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Total to Date:

all repair data must bear the endorsement of a certified mechanic, and his/her rating and certificate number MUST be shown.

Date	Time Run (Hours)	Total Time Since Overhaul	Repairs, Adjustments, Service, Remarks	Signature	Licence #
09/14/2016	Powerplant Logbook Entry Corvus Aviation LLC	Log: 491.1			
1. Serviced control linkage (ground) and converted spark plugs in accordance with Lycoming service manual.					
2. Serviced fuel servo screws and reinstalled with new gasket P/N 95341-10, and 95179 (torqued and safetied in accordance with Lycoming service manual. No leaks noted).					
3. Replaced rocker cover gasket on cylinder number 3 P/N G-5179-10 in accordance with Lycoming service instructions. No leaks noted.					
4. Serviced engine with 8qts of Aviodell 15W-50. Removed the oil filter and inspected for any unusual contaminants with none noted. Installed new filter with PN CH48119-1. Torqued and serviced per Champion installation instructions. Ground ran aircraft with no leaks noted.					
5. Checked magnetos to engine timing in accordance with Lycoming service instructions. no discrepancies noted.					
6. Cleaned fuel injectors in accordance with Lycoming service instructions. Inspected and torqued to Lycoming specifications. Leak check OK.					
7. Complied with ADIS-19-07 by visual inspection, no leaks noted.					
8. Re-safetied alternator to starter bolt per standard practices.					
9. Replaced deteriorating baffling rubber on front right side of engine with RCV in accordance per standard practices.					
10. Re-torqued oil drain back tubes in accordance with Lycoming service instructions.					
11. Replaced oil filter tube gasket with P/N 33906 and safetied in accordance with Lycoming service manual. No leaks noted.					
12. Replaced vacuum pump hose with RCV per standard practices.					
13. Replaced bottom left screw in the exhaust air intake tube with a shorter length to prevent chafing per standard practices.					
I certify that this powerplant has been maintained in accordance with all applicable maintenance as described in FAR 43 Appendix D and has been released for return to service on the above time. Signature: [Signature] Aiden Bullock 16					
09/14/2016	Powerplant Logbook Entry Corvus Aviation LLC	Log: 491.2			
1. Confirmed 100% powerplant and per Lycoming service instructions Manual #137761-2					
2. 79/80 63.79/80 64.15/80					
3. Updated AD compliance records 137761-2					
I certify that this powerplant has been maintained in accordance with all applicable maintenance as described in FAR 43 Appendix D and has been released for return to service on the above time. Signature: [Signature] Aiden Bullock 16					

Page Total:

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Total to Date:

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09/14/2016	Powerplant Logbook Entry Corvus Aviation LLC	Log: 491.1			
1. Serviced control linkage (ground) and converted spark plugs in accordance with Lycoming service manual.					
2. Serviced fuel servo screws and reinstalled with new gasket P/N 95341-10, and 95179 (torqued and safetied in accordance with Lycoming service manual. No leaks noted).					
3. Replaced rocker cover gasket on cylinder number 3 P/N G-5179-10 in accordance with Lycoming service instructions. No leaks noted.					
4. Serviced engine with 8qts of Aviodell 15W-50. Removed the oil filter and inspected for any unusual contaminants with none noted. Installed new filter with PN CH48119-1. Torqued and serviced per Champion installation instructions. Ground ran aircraft with no leaks noted.					
5. Checked magnetos to engine timing in accordance with Lycoming service instructions. no discrepancies noted.					
6. Cleaned fuel injectors in accordance with Lycoming service instructions. Inspected and torqued to Lycoming specifications. Leak check OK.					
7. Complied with ADIS-19-07 by visual inspection, no leaks noted.					
8. Re-safetied alternator to starter bolt per standard practices.					
9. Replaced deteriorating baffling rubber on front right side of engine with RCV in accordance per standard practices.					
10. Re-torqued oil drain back tubes in accordance with Lycoming service instructions.					
11. Replaced oil filter tube gasket with P/N 33906 and safetied in accordance with Lycoming service manual. No leaks noted.					
12. Replaced vacuum pump hose with RCV per standard practices.					
13. Replaced bottom left screw in the exhaust air intake tube with a shorter length to prevent chafing per standard practices.					
I certify that this powerplant has been maintained in accordance with all applicable maintenance as described in FAR 43 Appendix D and has been released for return to service on the above time. Signature: [Signature] Aiden Bullock 16					
09/14/2016	Powerplant Logbook Entry Corvus Aviation LLC	Log: 491.2			
1. Confirmed 100% powerplant and per Lycoming service instructions Manual #137761-2					
2. 79/80 63.79/80 64.15/80					
3. Updated AD compliance records 137761-2					
I certify that this powerplant has been maintained in accordance with all applicable maintenance as described in FAR 43 Appendix D and has been released for return to service on the above time. Signature: [Signature] Aiden Bullock 16					

Page Total:

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Total to Date:

Engine Log

Serial #

Date	Time Run (Hours)	Total Time Since Overhaul	Repairs, Adjustments, Service, Remarks	Signature	License #
NOTE: See Maintenance Log, 10/11/16 Engine Logbook Endorsement 1. Performed a 300 Hour inspection on the left and right magneto. Replaced the following parts with correct part numbers: left (M2154), right (M2155), contact points (M2081), camshaft (K3984) with correct pin (M2156). Replaced oil (K3978) with new in the left magneto. Torqued and safetied all hardware as required. Work was performed per 50k Master Service Manual (1-1100), applicable Section. Gregory T. Woodruff A&P					
NOTE: 11/03/2016 Powerplant Logbook Entry Cessna 441Q4 Tach: 5119.4 1. Serviced oil service screen with P/N: MS3569-21 in accordance with Lycoming maintenance manual. 2. Serviced, rotated, installed, torqued, and reconnected spark plugs as required per Lycoming service manual. 3. Installed overhauled left and right magnetos with P/N: 62224 and 62225 in accordance with Lycoming overhaul manual. Set engine in magneto timing in accordance with Lycoming overhaul manual. Operational check normal. 4. Installed plain washers on exhaust studs per Lycoming overhaul manual. 5. Complied with AFM Fuel Flow AD 01-46-17 by operationally checking oil speed and mixture. No discrepancies noted. AD next due 11/2017. Allen Hubler, A&P					
NOTE: 11/3/2016 Powerplant Logbook Entry Cessna 441Q4 Tach: 5119.4 1. Replaced oil filter with new Champion CH45109-1 and safetied per Lycoming service manual. Torqued and safetied per Champion installation instructions. No leaks noted. 2. Serviced induction air filter per KAN servicing instructions. 3. Fuel service screen serviced and replaced oil with new oil (P/N 954799) and (P/N 954541-10). Torqued and safetied per Lycoming service manual. No leaks noted. 4. Torqued oil drain plug, fuel service screen, and oil service screen. 5. Installed new over-temperature and oil temperature gauges per standard practices. Zach Dorr, Master A&P					
NOTE: November 3, 2016 Powerplant Logbook Entry Cessna 441Q4 Tach: 5119.4 1. Conducted a comprehensive inspection of the engine and airframe in accordance with FAR 43 Appendix D and the Cessna 441Q4 Pilot's Operating Handbook (POH) and the Cessna 441Q4 Maintenance Manual (MM). 2. Complied with Lycoming fuel service and induction air filter inspection and replacement instructions. AD 01-46-17 was also complied with when work was performed on the fuel injection system in June. 3. Updated AD compliance records. I certify that this powerplant has been maintained in accordance with a 300 hour inspection as described in FAR 43 Appendix D and has been found to be in airworthy condition at this time. Rachel Kline, A&P					

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Date	Time Run (Hours)	Total Time Since Overhaul	Repairs, Adjustments, Service, Remarks	Signature	License #
BROUGHT FORWARD 2/24/16 Tach: 5120.4 1. Serviced oil service screen with P/N: MS3569-21 in accordance with Lycoming maintenance manual. No leaks noted. 2. Serviced, rotated, installed, torqued, and reconnected spark plugs as required per Lycoming service manual. 3. Installed overhauled left and right magnetos with P/N: 62224 and 62225 in accordance with Lycoming overhaul manual. Set engine in magneto timing in accordance with Lycoming overhaul manual. Operational check normal. 4. Installed plain washers on exhaust studs per Lycoming overhaul manual. 5. Complied with AFM Fuel Flow AD 01-46-17 by operationally checking oil speed and mixture. No discrepancies noted. AD next due 11/2017. Allen Hubler, A&P					
NOTE: 01/24/2017 Powerplant Logbook Entry Cessna 441Q4 Tach: 5119.4 1. Serviced oil service screen with P/N: MS3569-21 in accordance with Lycoming maintenance manual. No leaks noted. 2. Serviced, rotated, installed, torqued, and reconnected spark plugs as required per Lycoming service manual. 3. Installed overhauled left and right magnetos with P/N: 62224 and 62225 in accordance with Lycoming overhaul manual. Set engine in magneto timing in accordance with Lycoming overhaul manual. Operational check normal. 4. Installed plain washers on exhaust studs per Lycoming overhaul manual. 5. Complied with AFM Fuel Flow AD 01-46-17 by operationally checking oil speed and mixture. No discrepancies noted. AD next due 11/2017. Allen Hubler, A&P					
NOTE: January 24, 2017 Powerplant Logbook Entry Cessna 441Q4 Tach: 5119.4 1. Serviced oil service screen with P/N: MS3569-21 in accordance with Lycoming maintenance manual. No leaks noted. 2. Serviced, rotated, installed, torqued, and reconnected spark plugs as required per Lycoming service manual. 3. Installed overhauled left and right magnetos with P/N: 62224 and 62225 in accordance with Lycoming overhaul manual. Set engine in magneto timing in accordance with Lycoming overhaul manual. Operational check normal. 4. Installed plain washers on exhaust studs per Lycoming overhaul manual. 5. Complied with AFM Fuel Flow AD 01-46-17 by operationally checking oil speed and mixture. No discrepancies noted. AD next due 11/2017. Allen Hubler, A&P					
NOTE: January 26, 2017 I certify that this engine has been inspected in accordance with FAR 43 Appendix D and is in an airworthy condition. AMT 1, 10/13/2017 1. Fuel service screen serviced and replaced oil with new oil (P/N 954799) and (P/N 954541-10). Torqued and safetied per Lycoming service manual. No leaks noted. 2. Serviced induction air filter per KAN servicing instructions. 3. Fuel service screen serviced and replaced oil with new oil (P/N 954799) and (P/N 954541-10). Torqued and safetied per Lycoming service manual. No leaks noted. 4. Torqued oil drain plug, fuel service screen, and oil service screen. 5. Installed new over-temperature and oil temperature gauges per standard practices. Zach Dorr, Master A&P					

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Signature	Licence #
Tash S119-8 Signed Logbook Endorsement	
I hereby training with you as: driver's license and motor oil is applied as insurance as applicable 10/2006.	
F&P [redacted]	
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1 system:	
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be shown.	

Date	Time Run (Hours)	Total Time Since Overhaul	Repairs, Adjustments, Service, Remarks	Signature	Licence #
Brought Forward					
03/01/10	14h 54m 0s		Dried oil from aircraft engine and took a Blackstone oil sample. Serviced engine with Zep Aeroshell ISWCO oil. No leaks noted.	[Redacted]	GP [Redacted]
N55TA January 24, 2017			Powerplant Logbook Entry Cornerstone Aviation LLC	Tech: 5219.1 TTENG: 596.7	
			- Serviced oil suction screen with P/N MS187W-21 in accordance with Lycoming overhaul manual. No leaks noted. - Removed old filter and cut open to inspect (no contaminants indicated) new filter P/N C14S110-1 per Champion service instructions. Torqued and installed as required, ground car aircraft with no leaks noted. - Secured exhaust shroud from forward baffles with new hardware per standard practices. - Torqued oil drain back tubes in accordance with Lycoming overhaul manual.	[Redacted]	
N55TA January 24, 2017			Powerplant Logbook Entry Cornerstone Aviation LLC	Tech: 5219.1 TTENG: 596.7	
			- Conducted a compression check per Lycoming Direct Drive Overhaul Manual 847G/B0 w/ 74/R0 & 78/R0 & 74/R0. - Replaced oil from aircraft engine and took a Blackstone Oil Sample. - Removed the fuel injectors and placed in the ultrasonic cleaner. Reinstalled cleaned injectors with fresh engine oil and torqued per maintenance manual (no leaks noted). - Complied with Lycoming Fuel Injector AD 15-19-07 by visual inspection of the fuel meter valves and fuel injector lines. No discrepancies found. All work was fully 5219.1 or within work item accomplished on the fuel injector fuel pack inspection record, which were occur first. - Replaced missing 84 cylinder baffles to seal and now IN STD1925 full removal of carbon box cover screws per Lycoming maintenance manual. No leaks noted. - Updated AD compliance through 2017-01.	[Redacted] Tech: 5219.1 TTENG: 596.7	
N55TA January 26, 2017			I certify that this Engine has been inspected in accordance with a 100 Hour inspection and was determined to be in an airworthy condition.	Tech 5219.1 TTENG 596.7	
N55TA 01/24/2017			Powerplant Logbook Entry Cornerstone Aviation LLC	Tech 5219.1 TTENG 596.7	
			- Fuel screen serviced, re-installed, and saturated. Inspected pressure relief valve (PRV) (B) and (P/N 951789). No leaks noted. - Spark plugs serviced, rotated, installed, torqued and pre-cooled. - Four spark plugs analyzed. Replaced unserviceable plugs with four (4) B1 5MM. - Verified magnets in engine timing. Timing within spec.	[Redacted]	

Engine Log

Serial #

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Page Total:

Brought Forward:

Total to Date:

Engine

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Total to Date:

Serial

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1. Issuing Office FAA/UNITED STATES		2. AUTHORIZED RELEASE CERTIFICATE FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG			3. FORM TRACKING NUMBER: RL-29418-51E	
4. ORGANIZATION NAME AND ADDRESS: Lycoming Engines, [REDACTED] Williamsport, PA 17701				5. WORK ORDER/CONTRACT/ INVOICE NUMBER: MS-460140		
6. ITEM:	7. DESCRIPTION:	8. PART NUMBER:	9. QUANTITY:	10. SERIAL NUMBER:	11. STATUS/WORK:	
1-1	Airframe Engine	RENPL-RT10230	1	RL-29418-51E	SEE BLOCK 12	
12. REMARKS: ENGINE MODEL: IO-360-L2A Rebuilt to original PAH's specifications in accordance with 14CFR par. 43.3(j) AIRWORTHINESS APPROVAL - ENGINE						
13a. Confirm the items described above were manufactured in conformity to: Approved design data and are in condition for safe operation. Non-approved design data specified in Block 12.				14a. <u>14CFR 43.9 Return to Service</u> ☒ Other regulation specified in Block 12 Certifies that unless otherwise specified in Block 12, this work identified in Block 11 and described in Block 12 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service.		
13b. Authorized Signature:		13c. Approval Authorization No.:		14b. Authorized Signature:		14c. Approval Certificate No.:
				<u>[Signature]</u>		LYC PCS
13d. Name (Typed or Printed):		13e. Date (mm/dd/yyyy):		14d. Name (Typed or Printed):		14e. Date (mm/dd/yyyy):
				J. DABBACK		19 OCT 2015
USER/INSTALLER RESPONSIBILITIES						
It is important to understand that the existence of this Document alone, does not automatically constitute authority to install the aircraft engine/propeller/article.						
Where the user/installer performs 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 latter Airworthiness Authority accepts aircraft engine(s)/propeller(s)/article(s) from the Airworthiness Authority of the country specified in Block 1.						
Statements in Block 13a and 14a do not constitute installation certification. In all maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft can be flown.						

LYCOMING

Form ET-001 (Rev 10/10)

Record of Accessories and Major Parts Shipped with Engine

Model No: **IO-360-L2A**Order No: **HP622667**Serial No: **RL-29418-51E**TC No: **1E10**ENPL: **RENPL-RT10230**Date: **Oct 13 2015**

Inspector:

114

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

<u>Part Name</u>	<u>Part Number</u>	<u>Manufacturer</u>	<u>Serial #</u>	<u>Setting</u>
Injector	61J26428	Avstar	AV207971059	AV2576536-2
Magneto, Left	66GC20SFNN	SLICK	15090620	
Magneto, Right	66GC20SFNN	SLICK	15090621	
Ignition Harness L	67P20409	SLICK		
Ignition Harness R	67P20408	SLICK		
Spark Plug	1182-E7	Champion		
Fuel Pump	62B26931	LYC	RC35152896	
Crankcase Match No			BB7997	
Crankshaft Serial No.			V537964306	

Airworthiness Directive Compliance List
 Sign for AD's Coded 1 (Applicable to Engine Model)

Page 1 of 1

Engine Model No **IO-360-L2A**Engine SN: **RL-29418-51E**

Oct 13, 2015

AD No / Rev	SB / rev	Description	Method of Compliance	Next Due	
71-0002	327 / C	INSPECTION OF CENTER MAIN BEARING	NEW INSTALLED	N/A-Once	1
71-0002	327 / C	REPLACEMENT OF EXH & INT HYD TAPPET PLUNGERS	NEW P/N HYD TAPPETS INSTALLED	N/A-Once	1
71-0002	327 / C	INSP FOR CRACKS IN PISTON PINS	INST NEW PARTS	N/A-Once	1
71-0002	327 / C	BENDIX FUEL INJ RS-43 INSP OF MOD OF FLOW DIVIDERS	NEW P/N GASKET INSTALLED	N/A-Once	1
71-0002	347	INCOMPLETE INTERNAL GROUNDING ON MAG CAPACITORS	NEW CONF. CAPACITORS INSTALLED	N/A-Once	1
71-0002	354	REPLACEMENT OF OIL PUMP IMPELLERS	STEEL IMPELLERS INSTALLED	N/A-Once	1
71-0002	535 / A	HIGH PRESSURE FUEL PUMP INSTALLED LW-15473	NEWLY MANUFACTURED PUMPS INST.	N/A-Once	1
71-0002	527 / C	RECALL OF PISTON P/N LW-14077	NEW CONFIGURATION P/N INST.	N/A-Once	1
71-0002	530 / B	INSPECTION OF CRANKSHAFT ID FOR CORROSION	MAG INSP/APPLY URETHABOND 104	N/A-Once	1
71-0002	475 / C	CRANKSHAFT GEAR MODIFICATION AND ASSY PROCEDURES	NEW P/N INSTALLED	N/A-Once	1
71-0002	505	Crankshaft replacement	Replace Crankshaft	N/A-Once	1
71-0002	581	Inspection of Precision Airmotive Hex Plug in regulator cover	New Impolved gasket P/N 2577258 installed	N/A-Once	1
71-0002	342 / F	FUEL LINE AND SUPPORT CLAMP INSPECTION & INSTALL	NEW LINES INST. WITH NEW CLAMP	100 HOURS	1
2010-03-08	595	Aystar Fuel System fuel servo diaphragm	New configuration diaphragm installed	N/A-Once	1
64-16-05	268 / Inact	AC FUEL PUMP OIL SEAL	NEW CONF. FUEL PUMP INSTALLED	N/A-Once	1
66-09-03	302 / A	REPLACEMENT OF CONNECTING ROD ASSY	NEW ROD CONFIGURATION	N/A-Once	1
66-20-04	307	OIL FILTER ADAPTER GASKET	NEW CONF. GASKET INSTALLED	N/A-Once	1
67-22-06 / 4	305 / B	REPLACEMENT OF BENDIX FUEL DIAPHRAGM ASSY	NEW OR NEVL? OH INSTALLED	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-18789 ROCKER ARM ASSY	NEW CONFIGURATION/REWORK	N/A-Once	2
90-04-06 / R1	488 / A	PROPELLER GOVERNOR LINE SUPPORT	NEW LINE WHITE/STEEL CON. NUTS INS	N/A-Once	2
92-12-05	501 / B	LW-14077 PISTON PIN	NEW PARTS 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
2002-12-07	543 / B	OIL FILTER CONVERTER PLATE FLANGE REPLACEMENT	NEW P/N CONVERTER PLATE INSTALLED	N/A-Once	2
2003-14-03	529 / B	ROTARY FUEL PUMP TORQUE	NEW PLUG WITH "AF" SUFFIX INSTALLED	N/A	2
2006-06-16	566 sup 1	Replace crankshaft	Correct as required	N/A-Once	2
2012-19-01	569 / A	CRANKSHAFT REPLACEMENT	Correct as required	N/A-Once	2

5th Run-in Data Sheet

Engine #: 91-29474-516	Model #: 15-288-124	Order #: MP622461	Preservation: LPS 488
Operator 1: Mike Aymer	Accept/Date: 10-12-15	Test Mode: Final	Part 3.2 Test
Operator 2:	Accept/Date: 10-12-15	BOM: RNLPL-RT10230	Sign: [Signature]
Fuel Serial #: AV197571853	Ignition Left: 15898628	Ignition Right: 15898628	SW Rev: 1.020000-1.1
Fuel Slave: N0	Ignit_L Slave: N0	Float Bowl Connected to Fuel Pump Inlet: YES	Barometer: 29.53
Fuel Circuit: C-13816-F2	Pre-Oil Pres: 90	Setting #: AV2575516-2	Read Time: 18/12/15 88:27
Pre-Oil Temp: 78.7	ETS Rev: ECO-27452	Date/Time: 18/12/15 07:45	Test Status: Pass
ETS #: 172	Variations		
The following minor variations to the applicable engine test specification were observed during this test and determined to be acceptable "As Is". The acceptance of these variations will not affect air worthiness or performance: 01. _____ 02. _____ 03. _____ 04. _____ 05. _____ 06. _____ 07. _____ 08. _____ 09. _____ 10. _____			

When / Test	Low Limit	Value	High Limit	Status
7 Runin @ 1500 for 5 min				
Allowable Speed Variation (RPM)	-75	17.8	75	Pass
Cylinder Head Temperature (DegF)		312	500	Pass
Inlet Air Temp (DegF)	0	64.2	110	Pass
8 Runin @ 1800 for 10 min				
Allowable Speed Variation (RPM)	-75	0.5	75	Pass
Cylinder Head Temperature (DegF)		353.2	500	Pass
Inlet Air Temp (DegF)	0	65.2	110	Pass
8 MagChk @ 1800 for 1 min				
Magneto Dropoff - Each Mag (RPM)		116.4	150	Pass
Magneto Dropoff - Difference (RPM)		27.6	35	Pass
Cylinder Head Temperature (DegF)		362.3	500	Pass
Inlet Air Temp (DegF)	0	65.2	110	Pass
10 Runin @ 2200 for 10 min				
Allowable Speed Variation (RPM)	-75	6.3	75	Pass
Cylinder Head Temperature (DegF)		431.2	500	Pass
Inlet Air Temp (DegF)	0	66.1	110	Pass
15 Idle @ Idle for 4 min				
Idle Speed (RPM)	600	659.7	700	Pass
Cylinder Head Temperature (DegF)		456.0	500	Pass
Oil Pressure @ Idle (PSI)	25	15.1		Pass
Inlet Air Temp (DegF)	0	68.8	110	Pass

Engine #: 40-29418-512	Model #: 17-100-1-30	Order #: 00622862
Operator 1: Mike Brown	Accept/Date: [Signature] 10/1/00	Test Mode: Final
Operator 2:	Ignition Left: 10/1/00	BOM: 10/1/00
Fuel Serial #: A02911955	Ignit_L Slave: 00	Ignition Right: 10/1/00
Fuel Slave: 00	Float Bowl Connected to Fuel Pump Inlet: YES	Ignit_R Slave: 00
Fuel Curve: C-15078-02	Pre-Oil Pres: 00	Setting #: A02911955-2
Pre-Oil Temp: 00	ETS Rev: E00-27452	Date/Time: 10/1/00 00:00
ETS #: 770		SW Rev: 10/00/00-1-11
Comments:		Barometer: 29.98
		Read Time: 10/1/00 00:00
		Test Status: Pass
Variations The following minor variations to the acceptable limits that specify tests were observed during this test and determined to be acceptable. The acceptance of these variations will not affect air symptoms or performance. IL _____ PL _____ RL _____ AL _____ Ignr _____ Date _____		

When / Test	Low Limit	Value	High Limit	Status
2 Airflow @ AF-400 for 4 min				
Fuel Flow Limits (PPH)	53.4	37.02	39.9 @ AF-400	Pass
Fuel Nozzle Limits ("HG)	N/A	2.66	N/A	Pass
Cylinder Head Temperature (DegF)		335.9	500	Pass
Inlet Air Temp (DegF)	0	65.1	110	Pass
4 Airflow @ AF-700 for 4 min				
Fuel Flow Limits (PPH)	57.8	59.42	65.0 @ AF-692	Pass
Fuel Nozzle Limits ("HG)	N/A	6.2	N/A	Pass
Cylinder Head Temperature (DegF)		417.4	500	Pass
Inlet Air Temp (DegF)	0	66	110	Pass
6 Airflow @ AF-900 for 4 min				
Fuel Flow Limits (PPH)	74.9	78	83.2 @ AF-903	Pass
Fuel Nozzle Limits ("HG)	9.7	10.41	10.8 @ AF-903	Pass
Cylinder Head Temperature (DegF)		435.5	500	Pass
Inlet Air Temp (DegF)	0	66.6	110	Pass
8 Rated @ Rated for 15 min				
Rated Speed (RPM)	2350	2424.9	2450	Pass
Manifold Pressure @ Rated ("HG)	26.5	27.72	28.5	Pass
Fuel Pressure @ Rated (PSI)	18	28.2		Pass
Fuel Flow @ Rated (PPH)		86.61	89.5 @ AF-955	Pass
Oil Pressure @ Rated (PSI)	75	84.8	85	Pass
Air Flow Limits (PPH)	911.1	953.2		Pass
Cylinder Head Temperature (DegF)		421.8	500	Pass
Oil Gallery Temp @ Rated (DegF)	165	172.9	215	Pass
Inlet Air Temp (DegF)	0	66.8	110	Pass
11 Final_Idle @ Idle for 4 min				
Idle Speed (RPM)	600	662.8	700	Pass
Cylinder Head Temperature (DegF)		308.6	400	Pass
Oil Gallery Temp @ Final_Idle (DegF)	140	171.2	245	Pass
Oil Pressure @ Idle (PSI)	25	28.5		Pass
Manifold Pressure @ Final Idle (in Hg)	8	11	17	Pass
Inlet Air Temp (DegF)	0	66.8	110	Pass
13 Manual @ N/A for 0 min				
Acceleration Check (sec)	2	0	0	Pass
Idle Cut-off Time (sec)	0	0	0	Pass