















1/13/11

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

Engine Model No: **IO-540-AB1A5**Engine SN: **RL-26695-48E**

Page 1 of 2

AD NO. / SB	RV RV	Description / Method of Compliance	Next Due	Once	Rec	Code	Sign
2004-05-24 554		CRANKSHAFT GEAR RETAINING BOLT REPLACEMENT. NEW BOLT P/N INSTALLED.	N/A	X		1	
2004-10-14 475	C	CRANKSHAFT GEAR MODIFICATION AND ASSY PROCEDURES NEW P/N INSTALLED	N/A	X		1	
2005-19-11 566		Crankshaft replacement Replace Crankshaft	N/A	X		1	
2006-20-09 569	A	CRANKSHAFT REPLACEMENT REPLACE CRANKSHAFT	N/A	X		1	
2008-14-07 342	E	FUEL LINE AND SUPPORT CLAMP INSPECTION & INSTALL. NEW LINES INST. WITH NEW CLAMP	100 HOURS		X	1	
2009-02-03 581		Inspection of Precision Airmotive Hex Plug in regulator cover New improved gasket P/N 2577258 installed	N/A	X		1	
63-14-03 295		OIL PUMP DRIVE SHAFT NEW CONF. PART INSTALLED	N/A	X		1	
64-16-05 298	Inactive	AC FUEL PUMP OIL SEAL NEW CONF. FUEL PUMP INSTALLED	N/A	X		1	
66-20-04 307		OIL FILTER ADAPTER GASKET NEW CONF. GASKET INSTALLED	N/A	X		1	
73-23-01 367	F	INSP FOR CRACKS IN PISTON PINS INST NEW PARTS	N/A	X		1	
75-09-15 382		BENDIX FUEL INJ RS-43 INSP OF MOD OF FLOW DIVIDERS NEW P/N GASKET INSTALLED	N/A	X		1	
94-01-03 N/A	R2	DEFECTIVE IGN COILS AND ROTATING MAGNETS NEW CONFIGURATION PART INST.	N/A	X		1	
96-09-10 524		REPLACEMENT OF OIL PUMP IMPELLERS STEEL IMPELLERS INSTALLED	N/A	X		1	
96-23-03 525	A	HIGH PRESSURE FUEL PUMP INSTALLED LW-15473 NEWLY MANUFACTURED PUMPS INST.	N/A	X		1	
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	
2005-12-06 425	C	Inspection of impulse couplings and stop pins New snap ring configured magneto installed	as per AD		X	2	
67-22-06 305	4 B	REPLACEMENT OF BENDIX FUEL DIAPHRAGM ASSY NEW OR NEWLY O/H INSTALLED	N/A	X		2	

Codes:

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



1/13/11

652 Oliver Street

Williamsport, PA 17701 U.S.A.

Engine Model No: **IO-540-AB1A5**Engine SN: **RL-26695-48E**

Page 2 of 2

AD NO. / SB	RV RV	Description / Method of Compliance	Next Due	Once	Rec	Code	Sign
78-23-08 421		FUEL LINE BETWEEN FUEL PUMP AND FUEL INJECTOR NEW FLEXIBLE HOSE USED	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	
81-03-05 444	A	BENDIX FUEL INJ BULL. #RS-62 REV 2 NEW P/N INSTALLED	N/A	X		2	
83-22-04 467		BENDIX BULLETIN #RS-88 BENDIX INJ NOT 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	
92-12-05 501	B	LW-14077 PISTON PIN NEW PARTS INSTALLED	N/A	X		2	
94-06-09 517		INCOMPLETE INTERNAL GROUNDING ON MAG CAPACITORS NEW CONF. CAPACITORS INSTALLED	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	
97-15-11 527	C	RECALL OF PISTON PIN P/N LW-14077 NEW CONFIGURATION P/N INST.	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	
99-04-04 537		MAGNETO IMPLUSE COUPLING NEW OR NEWLY OVERHAULED MAGNETO INSTALLED	250 HOURS		X	2	
2002-19-03 553		CRANKSHAFT INSP. FOR LYC. 6 CYL. TURBO ENGINES CRANKSHAFT INSTALLED NOT AFFECTED BY THIS AD	N/A	X		3	
69-08-09 N/A		INSTALLATION OF MANIFOLD PRESSURE PLACARD FIELD COMPLIANCE	10 HOURS	X		3	

Codes:

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



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

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

Model No: **IO-540-AB1A5**Serial No: **RL-26695-48E**Enpl: **RENPL-RT10231**Order No **AR466356**TC No: **1E4**Date: **1/13/11**

Part Name	Part Number	Manufacturer	Serial	Setting
CARBURETOR				
INJECTOR	61J23428	PAM	70DX5901	2576544-3
LT ALTERNATOR				
RT ALTERNATOR				
MAGNETO LEFT	66LC35SDNN	SLICK	10100659	
MAGNETO RIGHT	66LC35SDNN	SLICK	10100660	
MAGNETO DUAL				
LASER IGN CONT				
STARTER	31B26040	KELLY	H-K111661	
FUEL PUMP	LW-15473	LYC	H4010	
IGN HARNESS L	67U20639	SLICK		
IGN HARNESS R	67U20638	SLICK		
LASER IGN HARNESS				
SPARK PLUG	1182-E7	Champion		
LT TURBOCHARGER				
RT TURBOCHARGER				
BYPASS VALVE				
DENSITY CONTR.				
PRESS. CONTR.				
AB PRESS REL.				
#1 INTERCOOLER				
#2 INTERCOOLER				
<hr/>				
CRANKCASE MATCH NO. K1813	CRANKSHAFT SERIAL NO. V537957389			

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

Date: **1/13/2011**

C of A Issued Date: _____



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

Std Run-in Data Sheet

Engine # : RL-26695-48E	Model # : IO-540-AB1A5	Order # : AR466356	Preservation : LPS 486
Operator 1: L GROCOTT	Accept/Date: <u>[Signature]</u>	Test Mode : Final	Part 3.2 Test
Operator 2:	Accept/Date: <u>1-11-11</u>	BOM : RENPL-RT10231	Sign: <u>[Signature]</u>
Fuel Serial # : 70DX5901	Ignition Left : 10100659	Ignition Right : 10100660	
Fuel Slave : NO	Ignit_L Slave : NO	Ignit_R Slave : NO	SW Rev : 300-100195 H
Fuel Curve: C-12906-F540	Float Bowl Connected to Fuel Pump Inlet : YES		Barometer : 29.5
Pre-Oil Temp : 166	Pre-Oil Pres : 92	Setting # : 2576544-3	Read Time : 1/11/11 13:19
ETS # : 775	ETS Rev : EC0-26873	Date/Time : 1/11/11 12:45	Test Status : Pass

Comments

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. 1) _____ 2) _____ 3) _____ 4) _____ Engr. _____ Q.C. _____ Date _____
--	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

When / Test	Low Limit	Value	High Limit	Status
2 Runin @ 1500 for 5 min				
Allowable Speed Variation (RPM)	-75	7.1	75	Pass
Cylinder Head Temperature (DegF)		273.5	500	Pass
Inlet Air Temp (DegF)	0	56.3	110	Pass
5 Runin @ 1800 for 10 min				
Allowable Speed Variation (RPM)	-75	13.1	75	Pass
Cylinder Head Temperature (DegF)		309.2	500	Pass
Inlet Air Temp (DegF)	0	57.4	110	Pass
8 Runin @ 2200 for 10 min				
Allowable Speed Variation (RPM)	-75	1.3	75	Pass
Cylinder Head Temperature (DegF)		364.7	500	Pass
Inlet Air Temp (DegF)	0	58.3	110	Pass
11 MagChk @ 2200 for 1 min				
Magneto Dropoff - Each Mag (RPM)		115.7	150	Pass
Magneto Dropoff - Difference (RPM)		0.7	35	Pass
Cylinder Head Temperature (DegF)		371	500	Pass
Inlet Air Temp (DegF)	0	58.4	110	Pass
15 Idle @ 0 for 4 min				
Idle Speed (RPM)	600	685.7	700	Pass
Cylinder Head Temperature (DegF)		298	500	Pass
Oil Pressure @ Idle (PSI)	35	53.5		Pass
Inlet Air Temp (DegF)	0	57	110	Pass

Std Airflow Data Sheet

Engine #: RL-26695-48E	Model #: IO-540-AB1A5	Order #: AR466356
Operator 1: L GROCOTT	Accept/Date: <u>1-11-11</u>	Test Mode: Final
Operator 2:	Accept/Date: <u>1-11-11</u>	BOM: RENPL-RT10231
Fuel Serial #: 70DX5901	Ignition Left: 10100659	Ignition Right: 10100660
Fuel Slave: NO	Ignit_L Slave: NO	Ignit_R Slave: NO
Fuel Curve: C-12906-F540	Float Bowl Connected to Fuel Pump Inlet: YES	SW Rev: 300-100195 H
Pre-Oil Temp: 166	Pre-Oil Pres: 92	Barometer: 29.49
ETS #: 775	ETS Rev: EC0-26873	Setting #: 2576544-3
	Date/Time: 1/11/11 13:19	Read Time: 1/11/11 13:51
		Test Status: Pass

Comments

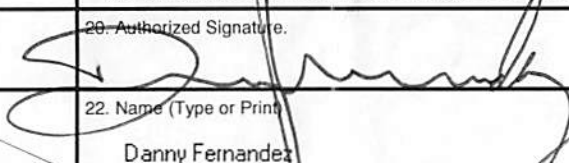
Variations

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.

- 1) _____
- 2) _____
- 3) _____
- 4) _____

Engr. _____ Q.C. _____ Date _____

When / Test	Low Limit	Value	High Limit	Status
18 Airflow @ AF-700 for 4 min				
Fuel Flow Limits (PPH)	61.4	67.5	69.4 @ AF-706	Pass
Fuel Nozzle Limits ("HG)	N/A	3.58	N/A	Pass
Cylinder Head Temperature (DegF)		312.8	500	Pass
Inlet Air Temp (DegF)	0	57.6	110	Pass
20 Airflow @ AF-1100 for 4 min				
Fuel Flow Limits (PPH)	93.9	97.64	103.9 @ AF-1099	Pass
Fuel Nozzle Limits ("HG)	5.9	6.66	8.0 @ AF-1104	Pass
Cylinder Head Temperature (DegF)		350.5	500	Pass
Inlet Air Temp (DegF)	0	58.3	110	Pass
22 Airflow @ AF-1300 for 4 min				
Fuel Flow Limits (PPH)	111	115.87	123.0 @ AF-1300	Pass
Fuel Nozzle Limits ("HG)	8.3	9.18	11.1 @ AF-1308	Pass
Cylinder Head Temperature (DegF)		369.6	500	Pass
Inlet Air Temp (DegF)	0	58.8	110	Pass
24 Rated @ Rated for 15 min				
Rated Speed (RPM)	2350	2443	2450	Pass
Manifold Pressure @ Rated ("HG)	26.5	27.27	28.5	Pass
Fuel Pressure @ Rated (PSI)	18	21.6	28	Pass
Oil Pressure @ Rated (PSI)	75	80.9	85	Pass
Air Flow Limits (PPH)	1336	1440.5		Pass
Cylinder Head Temperature (DegF)		382.6	500	Pass
Oil Gallery Temp @ Rated (DegF)	165	183.4	215	Pass
Inlet Air Temp (DegF)	0	59.2	110	Pass
27 Final_Idle @ 0 for 4 min				
Idle Speed (RPM)	600	689.9	700	Pass
Cylinder Head Temperature (DegF)		302.5	500	Pass
Oil Gallery Temp @ Final_Idle (DegF)	140	174	215	Pass
Oil Pressure @ Idle (PSI)	35	53.1		Pass
Manifold Pressure @ Final Idle (In Hg)	8	14.1	17	Pass
Inlet Air Temp (DegF)	0	57.3	110	Pass
29 Manual @ N/A for 0 min				
Acceleration Check (sec)	2	4	5	Pass
Idle Cut-off Time (sec)	0	3	5	Pass

1. Approving National Aviation Authority / County: FAA / United States		2 AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG			3. Form Tracking Number 81236	
4. Organization Name and Address: Pacific Oil Cooler Service, Inc. 1677 Curtiss Court, La Verne, CA			F.A.A RF3R813L 91750		5. Work Order/Contact/Invoice No 81236	
6. Item	7. Description	8. Part Number	9. Eligibility *	10. Quantity	11. Serial/Batch Number	12. Status/Work:
1	OIL COOLER	10610R	N/A	1	1931	OVERHAULED
13. Remarks: Work Order Number (Block 5) describing the actual work performed is attached. The described work was performed in accordance with Manufacturer's Specification. (See Work Order) No applicable Airworthiness Directives work / status. Certifies that the work specified in Blocks 12/13 was carried out in accordance with EASA part 145, and with respect to that work, the component is considered ready for release to service under EASA part 145 Approval Number: EASA.145.5554						
14. Certified the items identified above were manufactured in conformity to:			19 <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input checked="" type="checkbox"/> Other regulation specified 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 and in respect to that work, the items are approved for return to service.			
15. Authorized Signature		16. Approval /Authorization No:		20. Authorized Signature: 		21. Approval/Certificate No RF3R813L
17. Name (Type or Print)		18. Date (m/d/y):		22. Name (Type or Print) Danny Fernandez		23. Date (MMDDYYYY): Mar-08-2011
User / Installer Responsibilities						
<p>It is important that the existence of the document alone does not automatically constitute authority to install the part, component, or assembly above.</p> <p>When the user / installer performs the 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 that user / installer ensures that his/her airworthiness authority accepts parts, components, and or assemblies from the airworthiness authority of the country specified in Block 1.</p> <p>Statements in Block 14 and 19 do not constitute installation certification. In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.</p>						

1. Approving National Aviation Authority/Country: FAA/UNITED STATES		2. AUTHORIZED RELEASE CERTIFICATE				3. Form Tracking Number:	
4. Organization Name and Address: AIRPOWER ACCESSORIES 5127 EAST ROADRUNNER DR. MESA, AZ. 85215						5. Work Order/Contract/Invoice Number: 002714	
6. Item:	7. Description:	8. Part Number:	9. Eligibility: *	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:	
1	VACUUM PUMP	216CW	N/A	1 EACH	9391	OVERHAUL	
13. Remarks CERTIFIES THAT WORK SPECIFIED IN BLOCKS 12/13 WAS CARRIED OUT IN ACCORDANCE WITH PROCESS SPECIFICATION NO. 224, REVISION 02, DATED 12/14/06. AND WITH RESPECT TO THAT WORK, THE COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE.							
14. Certifies the items identified above were manufactured in conformity to: <input type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 13.				19. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input checked="" type="checkbox"/> Other regulation specified 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 and in respect to that work, the items are approved for return to service.			
15. Authorized Signature:		16. Approval/Authorization No.:		20. Authorized Signature BT		21. Approval/Certificate No.: A/P: 527825638	
17. Name (Typed or printed):		18. Date (m/d/y):		22. Name (Typed or Printed): BRUCE TAYLOR		23. Date (m/d/y): 9-15-09	
User/Installer Responsibilities							
<p>It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.</p> <p>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 his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.</p> <p>Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.</p>							

SERVICEABLE PART

Manufacturer LYCOMING ENGINES
Part Name AIRCRAFT ENGINE
Model No. IO-540-AB1A5
Serial No. RL - 26695-48E
Remarks _____

The aircraft engine or accessory identified above was:
Rebuild

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

Pertinent details of the work performed are on file at Lycoming Engines under order no: AP436356

Date 6/13/11

Signed _____

Signature of Authorized Person

FOR:

LYCOMING

A Textron Company

652 Oliver Street

Williamsport, PA 17701 USA

Production Certificate #3

LYCOMING

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

FINAL ENGINE ACCEPTANCE

Eng. Serial No. AL-2695-48E

Inspector 59

Date 1/13/11

Form 245 (5-02)