

N228HS

2003 Cessna T206H

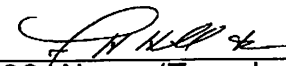
Engine Overhaul Documents

MSN: T20608419



RidgeAire
WORLDWIDE
aviation specialists

Prepared by the worldwide aviation specialists at RidgeAire, Inc.

1. Approving National Aviation Authority/Country FAA/UNITED STATES		2. AUTHORIZED RELEASE CERTIFICATE FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG				3. FORM TRACKING NUMBER RL-11447-61E	
4. ORGANIZATION NAME AND ADDRESS Lycoming Engines, 652 Oliver St., Williamsport, PA 17701					PRODUCTION CERTIFICATE #3 5. WORK ORDER, CONTRACT, OR INVOICE NUMBER: MS-400825		
6. ITEM	7. DESCRIPTION	8. PART NUMBER	9. ELIGIBILITY*	10. QTY.	11. SERIAL/BATCH NO.	12. STATUS/WORK	
1.1	Aircraft Engine	RENPL-RT10249	N/A	1	RL-11447-61E	SEE BLOCK 13	
13. REMARKS ENGINE MODEL: TIO-540-AJ1A No Life Limited Parts Rebuilt to original PAH's specifications AIRWORTHINESS APPROVAL - ENGINE 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: ___ Approved design data and are in condition for safe operation. ___ Non-approved design data specified in Block 13.				19. ___ 14CFR 43.9 Return to Service <u> X </u> 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.:		20. Authorized Signature:		21. Approval/Cert No:	
						LYC PC3	
17. Name (Typed or Printed):		18. Date (m-d-y):		22. Name (Typed or Printed):		23. Date (m-d-y):	
				F. H. HILL JR		AUG-04-2011	
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.							

LYCOMING

Lycoming Engines is a division of Avco Corporation
 652 Oliver Street
 Williamsport, PA 17701 U.S.A.
 570/323-6181

PACKING LIST		
ORDER NUMBER	ORDER DATE	
19897	04-AUG-11	

SHIPPING TERMS EX-WORKS	FREIGHT TERMS Prepaid & ABS	SALES PERSON Mid Continent	DELIVERY NAME 2918453	MS NUMBER MS-400825
CARRIER R & L Carriers-LTL-Ground	PAYMENT TERMS 1% 20 NET 30	WAYBILL NUMBER 246956346		
CUSTOMER PURCHASE ORDER NUMBER 10026164	SHIPMENT DATE 04-AUG-11	LOCATION	TOTAL WEIGHT 707 LBS	TOTAL PACKAGES 1

SHIP TO: **PENN YAN AERO**
MC CREERY AVIATION
2400 SOUTH 10TH ST
MC ALLEN, TX 78503
United States

BILL TO: **PENN YAN AERO**
2499 BATH ROAD AIRPORT
PENN YAN, NY 14527
United States

FORWARDER:

LINE	PART NUMBER / DESCRIPTION	UOM	ORDER QTY	SHIP QTY	BKORD QTY
2.1	DOMESTIC CARTON - DOMESTIC CARTON ✓	EA	1	1	0
1.1	RENPL-RT10249 - TIO-540-AJ1A - ROLLER LIFTER	EA	1	1	0
	Ser No:RL-11447-61E MFG DATE: 02-AUG-11				
3.1	6CYL-FREIGHT - 6 CYLINDER ENGINE - FREIGHT	EA	1	1	0
	Schedule B # 8407100060				

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FORWARDER:

LINE	PART NUMBER / DESCRIPTION	UOM	ORDER QTY	SHIP QTY	BKORD QTY
	<p>The Export Classification Control Number (ECCN) for this product is 9A991(d) 'Aircraft parts and components, n.e.s.' New and Rebuilt Engines and Parts produced and/or supplied under FAA production Certificate 3. Overhauled Engines and Parts produced and/or supplied under FAA Repair Station Certificate EJ1R115K. Engines FAA inspected and tagged for export for commercial civil aircraft use.</p> <p>United States law currently prohibits export of these commodities to Cuba, Iran, Libya, North Korea, Syria, and Republic of South Sudan, unless otherwise authorized by the United States.</p> <p>See <http://www.bis.doc.gov/>.</p> <p>Country of origin is the United States of America.</p> <p>The Lycoming products are being exported from the United States in accordance with the Export Administration Regulations; diversion contrary to U.S. law is prohibited. The Buyer agrees and certifies if knowledge that the commodity may be used in violation of U.S. laws or U.N. resolutions related to proliferation of weapons of mass destruction (missiles, nuclear, chemical or biological), terrorist or narcotics activities the Seller shall be given immediate notice.</p>				

Engine # : RL-11447-61E	Model # : TI0-540-AJ1A <i>(R)</i>	Order # : CURRR11447	Preservation : LPS 486 <i>(R)</i>
Operator 1 : A. Marconi	Accept/Date : <u>A. Marconi</u>	Test Mode : Final	Part 3.2 Test
Operator 2 :	Accept/Date : <u>7-27-11</u>	BOM : RENPL-RT10249	Sign : <u>Doug Ribb</u>
Fuel Serial # : 70E21202	Ignition Left : 11050518	Ignition Right : 11050519	
Fuel Slave : NO	Ignit_L Slave : NO	Ignit_R Slave : NO	SW Rev : 300-100195 H
Fuel Curve : C-13546-A	Float Bowl Connected to Fuel Pump Inlet : YES		Barometer : 29.47
Pre-Oil Temp : 164	Pre-Oil Pres : 94	Setting # : 2576562-4	Read Time : 7/27/11 22:12
ETS # : 778A	ETS Rev : EC0-26562	Date/Time : 7/27/11 21:06	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) <u>1900 HF 03 # Leak</u>
	2) _____
	3) _____
	4) _____
	Engr. <u>A. Marconi</u> Date <u>8-1-11</u>

When / Test	Low Limit	Value	High Limit	Status
2 Runin @ 1500 for 5 min				
Allowable Speed Variation (RPM)	-75	1.3	75	Pass
Cylinder Head Temperature (DegF)		255.4	480	Pass
Exhaust Gas Temperature (DegF)		1006.2	1675	Pass
Inlet Air Temp (DegF)	0	71.5	110	Pass
5 Runin @ 1800 for 10 min				
Allowable Speed Variation (RPM)	-75	0.8	75	Pass
Cylinder Head Temperature (DegF)		294.1	480	Pass
Exhaust Gas Temperature (DegF)		1059.2	1675	Pass
Inlet Air Temp (DegF)	0	75.2	110	Pass
8 Runin @ 2200 for 10 min				
Allowable Speed Variation (RPM)	-75	0.1	75	Pass
Cylinder Head Temperature (DegF)		344.8	480	Pass
Exhaust Gas Temperature (DegF)		1201.4	1675	Pass
Inlet Air Temp (DegF)	0	74.7	110	Pass
11 MagChk @ 2200 for 1 min				
Magneto Dropoff - Each Mag (RPM)		80.4	150	Pass
Magneto Dropoff - Difference (RPM)		4.5	35	Pass
Cylinder Head Temperature (DegF)		343	480	Pass
Exhaust Gas Temperature (DegF)		1181.7	1675	Pass
Inlet Air Temp (DegF)	0	75.1	110	Pass
15 Idle @ 0 for 4 min				
Idle Speed (RPM)	600	675.7	700	Pass
Turbocharger Oil Inlet Pressure @ Idle (PSI)	10	20.8		Pass
700:FuelFlow:4	9	9.2	12	Pass
700:ManifoldP:4	13.9	15.52	16.4	Pass
900:FuelFlow:4	12	13.5	17.5	Pass
900:ManifoldP:4	13.8	14.79	16	Pass
1000:FuelFlow:4	15	16.8	21	Pass
1000:ManifoldP:4	14.5	15.32	16.7	Pass
1200:FuelFlow:4	23	25.4	30.5	Pass
1200:ManifoldP:4	16.4	17.31	17.8	Pass
Cylinder Head Temperature (DegF)		256.7	480	Pass
Exhaust Gas Temperature (DegF)		879	1675	Pass
Oil Pressure @ Idle (PSI)	35	77.4		Pass
Inlet Air Temp (DegF)	0	75.4	110	Pass

Engine # : RL-11447-61E	Model # : T10-540-AJ1A	Order # : CURRR11447
Operator 1: A.Marconi	Accept/Date : <u>A. Marconi</u>	Test Mode : Final
Operator 2:	Accept/Date : <u>2-27-11</u>	BOM : RENPL-RT10249
Fuel Serial # : 70E21202	Ignition Left : 11050518	Ignition Right : 11050519
Fuel Slave : NO	Ignit_L Slave : NO	Ignit_R Slave : NO
Fuel Curve: C-13546-A	Float Bowl Connected to Fuel Pump Inlet : YES	
Pre-Oil Temp : 164	Pre-Oil Pres : 94	Setting # : 2576562-4
ETS # : 778A	ETS Rev : ECO-26562	Date/Time : 7/27/11 22:17
		SW Rev : 300-100195 H
		Barometer : 29.48
		Read Time : 7/27/11 22:53
		Test Status : Review

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
27 Airflow @ AF-700 for 4 min				
Fuel Flow Limits (PPH)	73	78.05	83.0 @ AF-700	Pass
Fuel Nozzle Limits ("HG)	N/A	3.1	N/A	Pass
Cylinder Head Temperature (DegF)		297	480	Pass
Exhaust Gas Temperature (DegF)		1048.6	1675	Pass
Inlet Air Temp (DegF)	0	75.9	110	Pass
29 Airflow @ AF-1500 for 4 min				
Fuel Flow Limits (PPH)	155.5	163.19	170.0 @ AF-1500	Pass
Fuel Nozzle Limits ("HG)	12	13.05	13.9 @ AF-1500	Pass
Cylinder Head Temperature (DegF)		320.9	480	Pass
Exhaust Gas Temperature (DegF)		1199.6	1675	Pass
Inlet Air Temp (DegF)	0	75	110	Pass
31 Airflow @ AF-1900 for 4 min				
Fuel Flow Limits (PPH)	197.3	197	215.5 @ AF-1926	Review
Fuel Nozzle Limits ("HG)	17.8	18.7	20.4 @ AF-1926	Pass
Cylinder Head Temperature (DegF)		363.7	480	Pass
Exhaust Gas Temperature (DegF)		1293.2	1675	Pass
Inlet Air Temp (DegF)	0	62.3	110	Pass
33 Rated @ Rated for 15 min				
Rated Speed (RPM)	2450	2502.3	2550	Pass
Manifold Pressure @ Rated ("HG)	38.5	38.92	39.5	Pass
Fuel Pressure @ Rated (PSI)	25	26.9	40	Pass
Fuel Flow @ Rated (PPH)	202	202.3	@ AF-1935	Pass
Oil Pressure @ Rated (PSI)	75	80	85	Pass
Turbocharger Oil Inlet Pressure @ Rated (PSI)	30	43.3		Pass
Air Flow Limits (PPH)	1863.8	1934.5		Pass
Cylinder Head Temperature (DegF)		374.5	480	Pass
Exhaust Gas Temperature (DegF)		1297.8	1675	Pass
Oil Gallery Temp @ Rated (DegF)	165	204.3	215	Pass
Inlet Air Temp (DegF)	0	77.9	110	Pass
36 Final_Idle @ 0 for 4 min				
Idle Speed (RPM)	600	688.8	700	Pass
Fuel Pressure @ Final Idle (PSI)	24	24.2	26	Pass
Cylinder Head Temperature (DegF)		317.8	480	Pass
Exhaust Gas Temperature (DegF)		686.7	1675	Pass
Oil Gallery Temp @ Final_Idle (DegF)	140	189.2	215	Pass
Oil Pressure @ Idle (PSI)	35	42		Pass
Manifold Pressure @ Final Idle (In Hg)	8	15.2	17	Pass
Inlet Air Temp (DegF)	0	80.2	110	Pass
38 Manual @ N/A for 0 min				
Acceleration Check (sec)	2	4	5	Pass
Idle Cut-off Time (sec)	0	4	5	Pass