

#1 Eng Log
N112MB

ENGINE LOG BOOK



Service Information

Consult TCM Internet Services at genuinecontinental.aero for engine related news or announcements. TCM Internet Services contains useful information for TCM engine owners, including electronic versions of the most current engine Instructions for Continued Airworthiness and service bulletins that may be pertinent to your engine model.

If internet access is not available, contact TCM Customer Service Department at:
1-800-826-5465 Toll free in the United States or
1-251-438-8299 International

Engine Returns

Return engines for core credit with this log book to:

Teledyne Continental Motors
2039 Broad Street
Mobile, AL 36615 USA

Return engines for overhaul with this log book to:

Teledyne Mattituck Services
410 Airway Drive
Mattituck, NY 11952 USA

**USE ONLY FUEL CONFORMING TO ASTM D910
USE OF AUTOMOTIVE FUEL IS PROHIBITED**



Continental Motors, Inc.

Production Certificate 508

Printed: 11/15/2011

Test Date: 11/14/2011

This engine model I0470N21B, serial number 1005467 was rebuilt by Teledyne Continental Motors in accordance with approved design data and the applicable requirements of Part 21 of the Federal Aviation Regulation. The approved design data for this engine incorporates all changes required by applicable Airworthiness Directives and Teledyne Continental Motors Service Bulletins.

Date	Total Time		Time Since Last Overhaul		Engine Service and Maintenance Record
	Hours	Min	Hours	Min	Record maintenance actions including engine part removal and installation and compliance with inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
12-1-11					Remove engine and send to TCM, IO-470-N, serial number CS 96285-70-W-R for exchange, include all accessories except alternator. - Installed exchange engine which was re-man at factory under TCM, WOB#: 0000076943. TCM model IO-470 N21, serial number 1005467
					Install as removed alternator - Accomplished, transferred to new engine plane power alternator conversion kit installed 5-19-2009.
					Remove propeller and send out for IRAN. - Accomplished, See New England Propeller log sticker WOB#: CR 38354. Propeller was disassembled, flushed, assembled and returned. Installed with new EPS seal. Run up, leak checked OK
					Remove prop governor and send out for IRAN. - Accomplished, see New England Prop FAA form 8130.3. Governor was overhauled, returned and installed.
					Remove oil cooler and send with engine for clean, flush, pressure check. - Oil cooler comes mounted on engine.
					Install fuel and oil lines - Accomplished
					Install as removed engine mounts - Accomplished
					Install as removed engine mount bolts - Accomplished
					Install as removed engine mount nuts - Accomplished
					Install mineral oil for break in. - Accomplished, serviced engine with 10 quarts Phillips XC mineral oil
					Install new air ducts as required - Accomplished
					Install as removed engine air filter. - Accomplished
					Torque straps all engine mount bolts and nuts - Accomplished
					Torque straps all fuel and oil lines as you put a final wrench check on each - Accomplished
					Clean, repair, paint engine baffles and replace seals as required - Accomplished, sheet metal repaired as needed, oil baffles. Installed new R/H front oil cooler baffle seal.
					Remove, charge, clean, install battery if necessary. - Accomplished
					Run up and leak check engine - Accomplished
					Install oil filter kit - in accordance with the installation

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12-1-11					Record maintenance actions including engine part removal and installation and compliance with inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
Carried forward →					
Instructions provided F+M Enterprises oil filter adapter kit was installed. Approved data STC SE 0935656. Note- This kit has no AIO's against it.					
Reuse weight and balance for oil filter kit- Accomplished					
File FAA form 337 for oil filter kit installation -					
Accomplished					
TTAIC -	5087				
TECH -	2713				A & P AIRCRAFT MAINT. INC.
TECH -	2000				MACARTHUR AIRPORT
Prop Smolt	94				RONKONKOMA, N.Y. 11770
Customer Copy					
					
Continental Motors, Inc.					
Engine Component Information Sheet					
Printed: 11/15/2011					
Serial: 1005867		Assembled: 11/09/2011			
Spec: 10470N218		Shipped: 11/15/2011			
New/Rebuilt: REBUILT		Packed: 11/15/2011			
Customer Name:					
Shipping Address:					
Component		Serial Number		Component Serial Number	
CAMSHAFT		106490		L. TURBO N/A	
CRANKSHAFT		N11EA151		R. TURBO N/A	
CRANKCASE		R11HA207		OVERBOOST N/A	
CONNRD		AE11JA475		CONTROLLER N/A	
CONNRD		AE11JA474		WASTEGATE N/A	
CONNRD		AE11JA447		CYLINDER - 1 AC11IB772	
CONNRD		AE11IA383		CYLINDER - 2 AC11IB749	
CONNRD		AE11IA388		CYLINDER - 3 AC11IB726	
CONNRD		AE11JA426		CYLINDER - 4 AC11IB811	
L MAGNETO		E11HA240R		CYLINDER - 5 AC11IB743	
R MAGNETO		E11TA275R		CYLINDER - 6 AC11IB761	
CARBURETOR		N/A		CYL FLOW CODE N/A	
FUEL PUMP		B11JA130R		NOZZLE - 1 1219	
MANIFOLD VALVE		C10DA144R		NOZZLE - 2 2219	
METERING UNIT		A11JA139R		NOZZLE - 3 3219	
STARTER		H-G-141173		NOZZLE - 4 4219	
ALTERNATOR		K050181		NOZZLE - 5 5219	
ALTERNATOR 2		N/A		NOZZLE - 6 6219	
DRIVE GEAR		N/A		OIL COOLER H11-9459-104	
DRIVEN GEAR		N/A		PISTON WEIGHT N/A	
					
Pack Inspection Stamp					
All of the information provided herein is subject to verification by the user. Teledyne Continental Motors, Inc. makes no representation or warranty concerning the accuracy or completeness of the information and assumes no responsibility with respect thereto.					

Date	Total Time		Time Since Last Overhaul		Engine Service and Maintenance Record
	Hours	Min	Hours	Min	
3-25-12					Record maintenance actions including engine part removal and installation and compliance with inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
Carried forward	→ Routine Annual Inspection Accomplished				
	Compression check 1) 73/80 2) 74/80 3) 75/80 4) 75/80 5) 73/80 6) 74/80				
	Oil and filter changed				
	Spark plugs - Cleaned, gapped and rotated				
	A new upgraded Engine AIO list was created				
	The following AIO's need to be addressed				
	AIO 93-11-11 Fuel pump overhauled by Aero Acc. - DNA no overhaul by Aero				
	AIO 96-12-01 Superior pistons - N/A TCM rebuilt 11-15-11				
	AIO 96-12-22 Cessna oil filter assembly - DNA not installed				
	AIO 95-21-15 Supersedes AIO 94-15-92 Applies to "N" numbers - DNA by "N" number				
	AIO 97-21-02 Piston pin plug wear - N/A TCM rebuilt 11-15-11				
	AIO 97-26-17 Crankshaft inspection - N/A TCM rebuilt 11-15-11				
	AIO 98-01-08 STC exhaust roller - N/A TCM rebuilt 11-15-11				
	AIO 98-17-11 Crankshaft repaired by Nelson - N/A TCM rebuilt 11-15-11				
	AIO 99-19-01 Crankshaft installed 1/1/98 - 12/31/98 - N/A TCM rebuilt 11-15-11				
	AIO 2000-23-21 Crankshaft manufactured 4/1/98 - 3/31/00 - Note Supersedes AIO 2000-08-51 - N/A TCM rebuilt 11-15-11				
	AIO 2001-08-08 V-band exhaust clamp on TCM turbo normalizing system and Tornado Alloy turbo STC - N/A not installed				
	AIO 2004-08-10 EC cylinders under Teledyne CMA as listed - N/A TCM rebuilt 11-15-11				
	AIO 2005-12-06 Impulse coupling inspection - NA by engine model				
	AIO 2007-04-19-R1 Superior cylinder assembly - N/A TCM rebuilt 11-15-11				
	AIO 2009-19-07 TCM cylinders - N/A TCM rebuilt 11-15-11				
	AIO 2010-11-04 hydraulic lifters - N/A TCM rebuilt 11-15-11				
	AIO 2011-15-10 Av-star fuel servo Superseded by AIO 2012-03-06C NA not installed				
	AIO 2011-24-07 Stick magneto models - NA, not installed				
	Recommending Engine AIO's are as follows - None				

Date	Total Time		Time Since Last Overhaul		Engine Service and Maintenance Record
	Hours	Min	Hours	Min	
11-24-14					Record maintenance actions including engine part removal and installation and compliance with inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
Carried forward →					
					Routine Annual Inspection Accomplished
					Compression Check: 1.) 70/80, 2.) 70/80, 3.) 72/80, 4.) 69/80, 5.) 70/80, 6.) 68/80
					Oil and Filter Changed
					Spark Plugs: Checked, Gapped and Rotated
					Reassembling Engine A/D's are as Followed
					None
					The Following Corrective Actions Were Taken
					Manifold pressure gauge was slow to react when throttle was pulled back. - Removed gauge, cleaned fuel fitting orifice and line. Installed gauge, ran engine, found MIP gauge to operate normal.
					Aircraft is shaking at low engine settings on tie-down, smooth and OK in flight.
					Suspect possible dirty fuel injectors. Remove all (6) lines, flow check and install. - Accomplished ran engine after cleaning fuel injectors and lines. Found engine to be smooth.
					Mixture attached rod and bearing had too much free play. Disassembled, inspected and repaired. - Inspection finds rod and bearing and ball shaft OK. Reinstalled and tightened castle lock nut as needed.
					The Following (1) A/D Needs to be Added and Addressed
					A/D 2014-05-29 Superseded A/D 2009-16-03 supersedes cylinders on TCM 20520, TS10-520 ID-556 and all other engines 470 series modified by STC with affected cylinders - DNA Not installed.
					ITA/C: 5163
					TACH: 2787
					TENG: 76
					PROP 170
					SMCH: 170
					A & P AIRCRAFT MAINT. INC. MACARTHUR AIRPORT RONKONKOMA, N.Y. 11779
					I CERTIFY THAT THIS Engine HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND DETERMINED TO BE IN AN AIRWORTHY CONDITION.
					ITA #

Date	Total Time		Time Since Last Overhaul		Engine Service and Maintenance Record
	Hours	Min	Hours	Min	
12-29-15					Record maintenance actions including engine part removal and installation and compliance with inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
Carried forward					
					Routine Annual Inspection Accomplished
					Compression Check: 1.) 72/80, 2.) 73/80, 3.) 75/80,
					4.) 70/80, 5.) 74/80, 6.) 74/80
					Oil and Filter Changed
					Spark Plugs: Cleaned, Gapped and Rotated
					Carburetors and filter replaced
					Reexamining Engine A/D's are as follows: None
					The Following Corrective Actions Were Taken:
					Exhaust pipe near cylinder #11 is cracked in
					the flange. - Removed right side exhaust system.
					Welded new pipe flange. Installed exhaust system
					with new gaskets.
					Fuel pump drain left AFT engine Aidel
					clamps supporting aluminum line too deteriorated
					rubber sleeve. - Installed new Aidel clamp.
					Fuel control drain right front engine below
					oil pump. Aidel clamp supporting aluminum
					tube is missing rubber sleeve. - Installed new
					Aidel clamp.
					Air/oil separator rubber oil line is leaking.
					Replaced hose with new.
					Air filter air box front seal falling off -
					Glued seal in place.
					Left exhaust shroud air duct had holes from
					age. - Replaced duct with Buckcraft new, see
					FAA form 8130-3.
					E/GT probe attach clamp is loose. Tightened
					as needed.
					Fuel flow divider vent line needs to be secured.
					Accomplished
TTA/C:	5186				
TACH:	2812				
T/ENG:	99				
PROP					
Small:	193				
A & P AIRCRAFT MAINT. INC. MACARTHUR AIRPORT RONKONOMA, N.Y. 11779					I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A Annual INSPECTION AND DETERMINED TO BE IN AN AIRWORTHY CONDITION.