



TELEDYNE CONTINENTAL
**Gold
Medallion
Aircraft
Engine**

USE ONLY
FUEL
CONFORMING
TO ASTM D910.

USE OF AUTOMOTIVE
GAS IS NOT
APPROVED.

REBUILT ENGINE LOG

N 3812X

AIRCRAFT N NUMBER

LEFT ENGINE

ENGINE MODEL NUMBER

ENGINE SERIAL NUMBER

This engine model 10470V09B, Serial No. 171174-R, was rebuilt/zero timed on 03/14/97 by Teledyne Continental Motors in accordance with an FAA approved Quality Control System, using FAA approved Engineering design data and the applicable requirements of FAR Part 21 of the Federal Aviation Regulations. The approved design data for this engine incorporated the following Service Bulletins and Airworthiness Directives.

SB	AD	REMARKS
M70-10	70-14-07	REPLACED WITH NEW PART
M88-4	88-03-06	REPLACED WITH NEW PART
N/A	91-19-03	REPLACED OIL FILTER
M92-1	N/A	*ROCKER SHAFT RETENTION IMPROVED
CSB94-1	94-06-09	REPLACED CAPACITOR AS APPLICABLE

SB	AD	REMARKS
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Records reflecting this rebuilding are on file at Teledyne Continental Motors, P.O. Box 90, Mobile, Alabama, 36601.

TELEDYNE CONTINENTAL MOTORS
PRODUCTION CERTIFICATE NO. 508

Walter Foague

ENGINE LOG

DATE 1997	R.P.M.		TIME ON GROUND			TIME IN AIR			TOTAL TIME		REPAIRS - ADJUSTMENTS	SIGNATURE	LICENSE NUMBER
	Ground	Air	Hrs.	Min.	Total	Hrs.	Min.	Total	Hrs.	Min.			
5-16	533.0										THIS ENGINE IO-470-V09B INSTALLED IN LEFT POSITION ON CESSNA 310 K N3812X. ENGINE SERVICED WITH SHELL 100 UNCOMPOUND OIL. ALL ACCESSORIES REINSTALLED: PROP, GOVERNOR, VACUUM PUMP, GENERATOR NEW LORD MOUNTS INSTALLED. EXHAUST INSTALLED WITH NEW GASKETS. ENGINE GROUND RUN, CHECKED & APPROVED FOR RETURN TO SERVICE.		
H SFREM	533.0 0.0												
												Mike Passwater	
												AP 1758050AI	
												Annual Inspection Completed	
												This Date 5-16-97 At 533.0 Hours.	
												Certify That This Aircraft/Engine	
												Has Been Inspected IAW	
												An Annual Inspection And Was	
												Determined To Be In An	
												Airworthy Condition	
												Mike Passwater AP 1758050AI	
BROUGHT FORWARD													
TOTALS													

ENGINE LOG

DATE	R.P.M.		TIME ON GROUND			TIME IN AIR			TOTAL TIME		REPAIRS - ADJUSTMENTS	SIGNATURE	LICENSE NUMBER
	Ground	Air	Hrs.	Min.	Total	Hrs.	Min.	Total	Hrs.	Min.			
1997 7-29													
H	544	5											
SFREM	11	5											
1997 9-26													
H	544	5											
SFREM	11	5											
STOH	00												
BROUGHT FORWARD													
TOTALS													

Removed THIS ENGINE FROM N 3812X To be returned TO THE FACTORY FOR CSB 97-10.
Mike Rossall A+P 1758050.

INSTALLED THIS ENGINE IN LEFT POSITION OF N 3812X AFTER FACTORY REPLACED ALL CYLINDERS PER CSB 97-10. ENGINE SERVICED WITH SHELL 100 Ground Run, Checked & Approved For Return To Service.
A.D. 97-21029we
TCM FACTORY.
Mike Rossall AP 1758050.

DATE

R. F

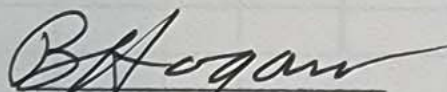
Ground

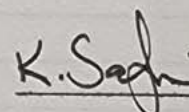
I0470V09B S/N 171174

8-29-97 Hours: 544.5

The following work was performed by TCM MMF 322-10 on the above listed engine:

Inspected engine for compliance to CSB97-10. Found rust on cylinder bores. Removed and replaced cylinders and rings. Reassembled engine IAW production procedures. New gaskets and seals were used. Tested engine IAW applicable TH specification.


B. Hogan, Mechanic

 #P217884786
K. Safiran, A&P

BROUGHT FORW

TOTAL

ENGINE LOG

DATE	R.P.M.		TIME ON GROUND			TIME IN AIR			TOTAL TIME		REPAIRS - ADJUSTMENTS	SIGNATURE	LICENSE NUMBER
	Ground	Air	Hrs.	Min.	Total	Hrs.	Min.	Total	Hrs.	Min.			
7-3													
H	566	2											
SFREM	33	2											
COMPRESSION TEST #1 77/80 #2 75/80 #3 77/80 #4 77/80 #5 75/80 #6 76/80 checked MAG TIMING. CLEANED SPARKPLUGS, AIR FILTER & FUEL FILTER. INSPECTED ENGINE Annual Inspection Completed This Date <u>7-3-98</u> At <u>566.2</u> Hours. I Certify That This Aircraft/Engine Has Been Inspected IAW An Annual Inspection And Was Determined To Be In An Airworthy Condition Mike Passwater AP1758050AI <i>[Signature]</i>													
BROUGHT FORWARD													
TOTALS													

ENGINE LOG

DATE	R.P.M.		TIME ON GROUND	TIME IN AIR	TOTAL TIME	REPAIRS - ADJUSTMENTS	SIGNATURE	LICENSE NUMBER
	Ground	Air						
			 AERO TECH ACTIVITIES 4233 SANTA ANITA AVE. BOX 4 HANGAR W-1 EL MONTE, CA. 91006 626 448 9575 FAX 626 448 9675					
			REG#: N3812X MAKE: CESSNA 310K S/N: 310K-0212 Date: 07-28-1999 TACH: 612.3					
			REMOVED GERATORS AND REGULATORS. INSTAALED ALTERNATORS AS PER STC KIT NO. P324R. INSTALLED NEW REGULATORS. INSTALED CURCUIT BREAKERS FOR OVERVOLTAGE UNDER CO-PILOT SEAT. CHECKED FOR ELECTRICAL LOADING- OPERATION NORMAL. COMPLETED 337 FORM. REVISED WEIGHT AND BALANCE AND EQUIPMENT LIST AT THIS TIME.					
			 FRANK T. DOHNAL A&P 2108278					
BROUGHT FORWARD								
TOTALS								

ENGINE LOG

[illegible]

ENGINE LOG

[illegible]

ENGINE LOG

[illegible]

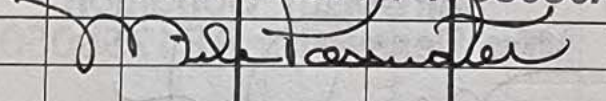
ENGINE LOG

DATE	R.P.M.		TIME ON GROUND			TIME IN AIR			TOTAL TIME		REPAIRS - ADJUSTMENTS	SIGNATURE	LICENSE NUMBER	
	Ground	Air	Hrs.	Min.	Total	Hrs.	Min.	Total	Hrs.	Min.				
2001														
9-7			CHANGED OIL & OIL FILTER. SERVICED WITH SHELL 100W.											
Hobbs.	713	0	COMPRESSION TEST. #1 76/80 #2 77/80 #3 77/80 #4 77/80 #5 74/80 #6 73/80.											
SFREM.	180	0.	RETIMED RIGHT. MAG. CLEANED SPARKPLUGS. FUEL FILTER + AIR FILTER. GAMI INJECTORS INSTALLED PER STC SE 09217SC. REFER TO.											
			337											
Annual Inspection Completed This Date <u>9-7-2001</u> At <u>14 713.0</u> Hours. I Certify That This Aircraft/Engine Has Been Inspected IAW An Annual Inspection And Was Determined To Be In An Airworthy Condition Mike Passwater AP1758050AI 														
BROUGHT FORWARD														
TOTALS														

ENGINE LOG

[illegible]

ENGINE LOG

DATE		R.P.M.		TIME ON GROUND			TIME IN AIR			TOTAL TIME		REPAIRS - ADJUSTMENTS	SIGNATURE	LICENSE NUMBER
		Ground	Air	Hrs.	Min.	Total	Hrs.	Min.	Total	Hrs.	Min.			
2002	10-17													
Hobbs		760.	4											
SFRem.		227	4											
COMPRESSION TEST. #1 77/80 #2 75/80 #3 75/80 #4 74/80 #5 75/80 #6 70/80 checked MAG TIMING. CLEANED SPARKPLUGS. FUEL FILTER & AIR FILTER. A.D. 00-23-21 N/A ENG REMAN DATE. Annual Inspection Completed This Date 10-17-2002 At _____ Hours. I Certify That This Aircraft/Engine Has Been Inspected IAW An Annual Inspection And Was Determined To Be In An Airworthy Condition Mike Passwater AP1758050AI 														
BROUGHT FORWARD														
TOTALS														

ENGINE LOG

[illegible]

ENGINE LOG

DATE	R.P.M.		TIME ON GROUND			TIME IN AIR			TOTAL TIME		REPAIRS - ADJUSTMENTS	SIGNATURE	LICENSE NUMBER
	Ground	Air	Hrs.	Min.	Total	Hrs.	Min.	Total	Hrs.	Min.			
2006													
1-3													
Hobbs.	882	7											
STREM	349	7											
CHANGED OIL & OIL FILTER. SERVICED WITH SHELL 100W. COMPRESSION TEST. #1 77/80 #2 75/80 #3 70/80 #4 73/80 #5 73/80 #6 72/80. CHECKED MAG TIMING. CLEANED SPARKPLUGS. AIR FILTER & FUEL FILTER. Annual Inspection Completed This Date <u>1-3-2006</u> At <u>882.7</u> Hours I Certify That This Aircraft/Engine Has Been inspected IAW An Annual Inspection And Was Determined To Be In An Airworthy Condition Mike Passwater AP 758050AI <i>Mike Passwater</i>													
BROUGHT FORWARD													
TOTALS													

ENGINE LOG

ENGINE LOG													
DATE	R.P.M.		TIME ON GROUND			TIME IN AIR			TOTAL TIME		REPAIRS - ADJUSTMENTS	SIGNATURE	LICENSE NUMBER
	Ground	Air	Hrs.	Min.	Total	Hrs.	Min.	Total	Hrs.	Min.			
2007 1-4													
Hobbs	926	8	CHANGED OIL & OIL FILTER								SERVICED WITH SHELL 100W.		
SFrem.	393	6	COMPRESSION TEST #1			75/80 #2					72/80 #3 74/80 #4 69/80 #5 62/80 #6 73/80		
			CHECKED MAG TIMING.			REPLACED ALL SPARKPLUGS					URHB 32E.		
			CLEANED AIR FILTER & FUEL FILTER.										
Annual Inspection Completed													
This Date 1-4-2007 At 926.8 Hours													
I Certify That This Aircraft/Engine													
Has Been inspected IAW													
An Annual Inspection And Was													
Determined To Be In An													
Airworthy Condition													
Mike Passwater AP1758050AI													
BROUGHT FORWARD													
TOTALS													

ENGINE LOG

[illegible]

ENGINE LOG

[illegible]

ENGINE LOG

DATE	R.P.M.		TIME ON GROUND			TIME IN AIR			TOTAL TIME		REPAIRS - ADJUSTMENTS	SIGNATURE	LICENSE NUMBER
	Ground	Air	Hrs.	Min.	Total	Hrs.	Min.	Total	Hrs.	Min.			
2010 3-15 Hobbs. SPRem.	958	7									CHANGED OIL & OIL FILTER. SERVICED WITH SHELL 100W. COMPRESSION TEST #1 78/80 #2 71/80 #3 68/80 #4 70/80 #5 78/80 #6 74/80. Checked MAG. Timing. Cleaned SPARKPLUGS. AIR FILTER + FUEL FILTER.		
Annual Inspection Completed This Date 3-15-10 At 958.7 Hours I Certify That This Aircraft/Engine Has Been Inspected IAW An Annual Inspection And Was Determined To Be In An Airworthy Condition Mike Passwater AP1758050AI													
BROUGHT FORWARD													
TOTALS													

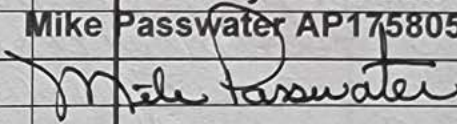
ENGINE LOG

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ENGINE LOG

[illegible]

ENGINE LOG

DATE		R.P.M.		TIME ON GROUND			TIME IN AIR			TOTAL TIME		REPAIRS - ADJUSTMENTS	SIGNATURE	LICENSE NUMBER
		Ground	Air	Hrs.	Min.	Total	Hrs.	Min.	Total	Hrs.	Min.			
2013	7-10	977	7									CHANGED OIL & FILTERS. SERVICED WITH SHELL 100W. COMPRESSION TEST. #1 78/80 #2 70/80. #3 70/80 #4 74/80 #5 78/80 #6 74/80. CHECKED MAG. TIMING. CLEANED SPARK PLUGS. CHECKED AIR FILTER & FUEL FILTER.		
SFREM	443	5												
												Annual Inspection Completed This Date 7-10-13 At 977.7 Hours I Certify That This Aircraft/Engine Has Been Inspected IAW An Annual Inspection And Was Determined To Be In An Airworthy Condition Mike Passwater AP1758050AI 		
BROUGHT FORWARD														
TOTALS														

ENGINE LOG

[illegible]

ENGINE LOG

DATE	R.P.M.		TIME ON GROUND			TIME IN AIR	TOTAL TIME	REPAIRS - ADJUSTMENTS	SIGNATURE	LICENSE NUMBER
	Ground	Air	Hrs.	Min.	Total					
BROUGHT FORWARD										
TOTALS										

T & M Aviation
 1401 S. State Street
 Ukiah CA 95482
 (707) 462-1417

Left Engine: S/N 171174-R
 4/18/17 N3812X Tach: 1110.0 SFREM: 575.8
 Annual inspection completed. Compressions as follows:
 #1 67/80, #2 62/80, #3 72/80, #4 64/80, #5 70/80, #6 68/80.
 Changed oil and filter. Serviced engine with 12 quarts Aeroshell 100W Plus oil and a CH48110-1 filter. Performed oil analysis using Aviation Laboratories Inc. GA-001 kit. Governor overhauled by Stockton Propeller Service of Stockton, CA. Cleaned and inspected all fuel injector nozzles. Magnetos removed, Champion/Slick 500 Hour inspection performed by Aircraft Magneto Service of Missoula, MT. Magnetos installed and timed to engine @ 20deg. BTC. Cleaned and gapped spark plugs. Installed new front engine shock mounts Lord P/N J12390-1. Installed new intake hose P/N 654439-1 on the #5 cylinder intake duct. Installed new intake air filter P/N BA-2305. Engine run-up performed, no leaks noted. All AD's checked through 2017-06.

I certify that this engine has been inspected in accordance with an annual inspection and was determined to be in an airworthy condition.

(Signature)
 Michael Whetzel, A&P2692702I/A

ENGINE LOG

DATE	R.P.M.		TIME ON GROUND			TIME IN AIR	TOTAL TIME	REPAIRS - ADJUSTMENTS	SIGNATURE	LICENSE NUMBER
	Ground	Air	Hrs.	Min.	Total					
BROUGHT FORWARD										
TOTALS										

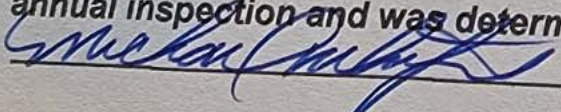
T & M Aviation
 1401 S. State Street
 Ukiah CA 95482
 (707) 462-1417

Left Engine: S/N 171174-R
 6/1/19 N3812X Tach: 1162.4 SFREM: 628.2
 Annual inspection completed. Compressions as follows:
 #1 72/80, #2 67/80, #3 72/80, #4 70/80, #5 73/80, #6 69/80.
 Changed oil and filter. Serviced engine with 12 quarts Aeroshell 100W Plus oil and a CH48110-1 filter. Oil filter cut open and inspected with no debris noted. Performed oil analysis using Aviation Laboratories Inc. GA-001 kit. Magnetos checked for timing to engine @ 20deg. BTC. Cleaned, tested and gapped spark plugs. Installed new intake air filter P/N BA-2305. All engine controls lubed, checked for function and travel. Alternator belt tension checked. Engine run-up performed; no leaks noted. All AD's checked through 2019-11.

I certify that this engine has been inspected in accordance with an annual inspection and was determined to be in an airworthy condition.

(Signature), Michael Whetzel, A&P2692702I/A

ENGINE LOG

DATE	R.P.M.		TIME ON GROUND	TIME IN AIR	TOTAL TIME	REPAIRS - ADJUSTMENTS	SIGNATURE	LICENSE NUMBER
	Ground	Air						
						 T & M Aviation 1401 S. State Street Ukiah CA 95482 (707) 462-1417 <u>Left Engine: S/N 171174-R</u> 9/21/2020 N3812X HOBBS: 1252.7 S.F.REM: 718.5 Annual inspection completed. Compressions as follows: #1 69/80, #2 62/80, #3 65/80, #4 68/80, #5 68/80, #6 62/80. Changed oil and filter. Serviced engine with 12 quarts Aeroshell 100W Plus oil and a CH48110-1 filter. Oil filter cut open and inspected with no debris noted. Performed oil analysis using Aviation Laboratories Inc. GA-001 kit. Repaired left magneto P-lead wiring. Magnetos checked for timing to engine @ 20deg. BTC. Retimed magnetos to engine. Cleaned, tested and gapped spark plugs. Installed new intake air filter P/N BA-2305. All engine controls lubed, checked for function and travel. Alternator belt tension checked. Engine run-up performed; no leaks noted. All AD's checked through 2020-19 <i>I certify that this engine has been inspected in accordance with an annual inspection and was determined to be in an airworthy condition.</i> , Michael Whetzel, A&P2692702I/A		
BROUGHT FORWARD								
TOTALS								

ENGINE LOG



ABSOLUTE AERO

MAINTENANCE

21889 Skywest Drive, Hayward, CA 94541 · 510 782-6591

ENGINE ENTRY

LICENSE
NUMBER

WORK ORDER: 3433 AIRCRAFT: N3812X HOBBS: 1286.0 TSOH: N/A TTE: 753.0

L/H ENGINE MODEL: Continental IO-470-V9B S/N: 171174-R

DATE: 08/01/2022

Replaced the following parts with new: spark plugs (12EA P/N: URHB32E), forward intake cross-over hoses (2EA P/N: 654439-1), and cylinder #5 & 6 intake gaskets (P/N: 649959). Removed, cleaned, and reinstalled fuel injector nozzles. Removed both magnetos and reinstalled using new gaskets (2EA P/N: 649954). Timed both magnetos to the engine and torqued base nut hardware. Compression results: #1: 68/80, #2: 58/80, #3: 60/80, #4: 58/80, #5: 62/80, #6: 67/80, MO: 41/80. Drained and sampled oil. Removed and replaced oil filter with new (P/N: AA48110-2). Examined old oil filter element, no contaminants found. Serviced engine with 11 quarts of Aeroshell W100 Plus oil and 1 pint of ASL Camguard. Ground ran engine, leak and ops check good. Adjusted idle speed and mixture as needed. No defects noted at this time. **C/W AD 96-12-22 "oil filter adapters" by torque check and visual inspection, no defects noted. Next due Hobbs: 1386.0 or oil filter removal.** Verified AD's current through FAA AD biweekly 2022-16. All work completed in accordance with the Cessna 310 Service Manual and the Continental Maintenance Manual M-0. -END

I certify that this engine has been inspected in accordance with FAR 43 Appendix D (100 Hour Inspection) and has been determined to be in an airworthy condition.

Brandon Thompson A&P / IA 3212565

BROUGHT FORWARD

TOTALS

 TELEDYNE CONTINENTAL MOTORS

P. O. BOX 90, MOBILE, ALABAMA 36601

Form No. X30511



Member of GAMA
General Aviation
Manufacturers Association