ENGINE LOG BOOK



The subject aircraft was involved in an incident / accident on <u>6/20/2025</u> rendering it a Constructive Total Loss as not repairable within its insured value. For further details refer to insurance claim: <u>6630189297US</u>.

Signed: *Underwriters Salvage Company*

Date: 10/2/2025
AIG Aerospace Adjustment Services Inc 3500 Lenox Road, Suite 1100
Atlanta, GA 30326



Loyd's AIRCRAFT MAINTENANCE, INC.

P.O. Box 80958 Bakersfield, California 93380



;ord

Date: 3/01/2023; Aircraft: N5LB; Type: CESSNA, T210N; S/N: 21063622; Tach: 4093.82; Total Time: 4093.82; Engine - Type: TSIO520R-R9B, S/N: 1011186, Time: 453.82; Prop - Type: PHC-J3YF-1RF, S/N: FP8468B, Time: 453.82; Work Done At and Airframe Time: 4093.82,, Engine Time: 453.82,, Engine Cycles: 1584, ctives Engine

--Discrepancy--

Ca

Annual inspection due.

Completed an Annual Inspection this date in accordance with F.A.R. 43 appendix d. Performed compression check with the

#1 - 75/80, #2 - 70/80, #3 - 70/80, #4 - 64/80, #5 - 72/80, #6 - 66/80.

-- Discrepancy--

Oil change due.

Drained oil and installed new filter CH48109-1. Cut open filter and inspected for metal contamination. No visible metal found at this time. Serviced engine with 10 quarts Aeroshell 50W100 Plus. Washed engine and cowl. Ground run and leak check good.

Oil sample due.

Oil sample taken and sent for analysis.

--Discrepancy--

AD 84-26-02 Engine air filter due replacement.

Complied with AD by installing new air filter.

--Discrepancy--

Spark plugs worn.

Installed new URHB32E spark plugs.

-- Discrepancy--

Engine primer leaking.

Resealed primer as required.

This engine is approved for return to service with respect to the work performed.

Mark L Blackburn AP3458706

I certify that this engine has been inspected in accordance with an Annual Inspection and is approved for return to service.

Mark W Wiebe AP561868073IA



Loyd's AIRCRAFT MAINTENANCE, INC.

P.O. Box 80958

Bakersfield, California 93380



Date: 7/01/2024; Aircraft: N5LB; Type: CESSNA, T210N; S/N: 21063622; Tach: 4136.00; Total Time: 4136.00; Engine - Type: Date: 7/01/2024; Aircraft: N5LB; Type: CESSINA, TZTUN, S/N. ZTU05022, Tacil. 4136.00; Total Time: 4136.00; Engine - Type: PHC-J3YF-1RF, S/N: FP8468B, Time: 496.00; Work Done At -

--Discrepancy--

Annual Inspection due.

Annual Inspection due.

Completed an Annual Inspection this date in accordance with F.A.R. 43 appendix d.Performed compression check with the

Oil change due.

Oil change due.

Drained oil and installed new filter CH48109-1. Cut open filter and inspected for metal contamination. No visible metal found at Drained oil and installed new filter CH40109-1. Out open filter and inspected for metal contamination. No visible metal found at this time. Serviced engine with 9 quarts Aeroshell 50W100 Plus. Washed engine and cowl. Ground run and leak check good.

Oil sample taken and sent for analysis.

This engine is approved for return to service with respect to the work performed.

Mark L Blackburn AP3458706

Jacobo Reyes AP4704009

I certify that this engine has been inspected IAW an Annual Inspection and is approved for return to service.

Mark W Wiebe AP561868073IA

LOYD'S AIRCRAFT MAINTENANCE



Date: 9/24/2024; Aircraft: N5LB; Type: CESSNA, T210N; S/N: 21063622; Tach: 4155.71; Total Time: 4155.71; Engine - Type: TSIO520R-R9B, S/N: 1011186, Time: 515.71; Prop - Type: PHC-J3YF-1RF, S/N: FP8468B, Time: 515.71

Troubleshoot system and found loose ground connection on alternator. Secured connection with new nut and lockwasher. Removed battery and performed capacity test. Battery passed with a capacity of 95%. Recharged and reinstalled battery. Reset regulator circuit breaker and performed ground run. No defects noted. Battery voltage nominal at 28.5 volts.

I certify that this Engine has been approved for return to service respect to the work performed.

Mark W. Wiebe AP 561868073

Discrepancy:

-			-

	Total Time			nce Last rhaul	Engine Service and Maintenance	Engine Service and Maintenance Record			
Date	Hours	Min	Hours	Min	Record maintenance actions including engine part installation and compliance with inspections, Airworthine Special Inspections, Modifications and Service Bulletins	removal aress Directive			
arried forward		→							
		Ī	(B)	Low	AIDCDAET MAINTEN				
		LOYD'S AIR	RCRAFT MAINTENAN	(661) 39	AIRCRAFT MAINTENANCE, INC. N 5LB 93-1588 Fax (661) 393-2502 Tach: 3957.70	-			
		Work Ac	complished	I	Eng. TT: 317.70 SO# 20498 Engine S/N: 1011186	_			
		Engine -			Date: 9/8/2020				
	-	Discrepan Annual ins	spection due						
		Resolution Completed	d an annual ins	spection this o	date in accordance with FAR 43, appendix D, and Cessna/ Textron Aviation Cessna MM				
		Performed #1 - 75/80	compression 0, #2 - 76/80 #	viAR 1996, TE check with the #3 - 76/80 #4	fate in accordance with FAR 43, appendix D, and Cessna/ Textron Aviation Cessna MM EMP REV D2057-3TR16, Dated: 01 AUG 2020. e following results: - 74/80, #5 - 78/80, #6 - 70/80.				
		Discrepand	CV.						
		Resolution Complied	U/ Pressure te	est of exhaust	heat exchanger due.	±			
					eat exchanger pressure test. No defects noted.				
		Fuel hose	from fuel pump :	to metering	unit leaking.				
		Discrepano	ew Teflon fuel I	hose. Leak ch	neck good.				
		Left vacuur Resolution:	n pump shaft s			-			
		Removed	vacuum pump.	Installed nev	v drive seal. Reinstalled vacuum pump with new gasket.				
		Discrepance Oil change Resolution:			and Hew Agasket				
		Drained oil	and installed n	ew filter CH4	8109-1. Cut open filter and inspected for metal contamination.				
				Ground run a	8109-1. Cut open filter and inspected for metal contamination. viced engine with 9 quarts Aeroshell 50W100 Plus. and leak check good.				
	1	Discrepancy Oil sample of Resolution:	<i>l</i> :						
	-	Oil samples	taken and sen	it for analysis.					
	-	Discrepancy Rocker cove	r: ers leaking #3,	#6 outing					
		Resolution: Replaced ro	cker cover gas	kets on numb	pers 3 and 6 cylinders.				
		Discrenancy			and 6 Cylinders.				
		Resolution: Installed nev	n fluctuates int	ermittently.					
		Discrepancy		valor to Tilt p	robe				
		Crankshaft s	eal leaking.						
		Torqued atta	peller and inst ch nuts to spec	talled new cra c.	ankshaft seal assembly. Reinstalled propeller with new O-ring.				
		Oil temp sens			O-ring.				
		Installed new	AN900-10 cru	ish gasket un	der prohe				
		I certify that a	n Annual inspe	ection was pe	der probe. erformed on the above aircraft, in accordance with FAR 43, appendix D, and Cessna/ 0, REV 3, 01 MAR 1996, TEMP REV D2057-3TR16,				
		Dated: 01 AU	G 2020.	ML-200-70, IV), REV 3, 01 MAR 1996, TEMP REV D2057-3TR16.				
		This engine is	approved for	return to serv	rice with respect to the work performed.				
			e AP56186807	/	Mars Da				
	 	** *VIED	~ AFJ0186807	JIA	Well July				
		-							

	Total	Time		nce Last 'haul	Engine Service and Maintenance Record				
Date	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				
Carried forward -		—	l						
				complished	AIRCRAFT MAINTENANCE, INC. 393-1588 Fax (661) 393-2502 Tach: 4008.70 ETSOH: 368.70 SO# 21113 Engine S/N: 1011186 Date: 7/20/2021				
			Engine - Discrepancy: Oil change due. Resolution: Drained oil and installed new filter CH48109-1. Cut open filter and inspected for metal contamination. No visible metal found at this time. Serviced engine with 10 quarts Aeroshell 50W100 Plus. Washed engine and cowl. Ground run and leak check satisfactory. Discrepancy: Oil sample due. Resolution: Oil samples taken and sent for analysis.						
	Mark W Wiebe AP561868073IA Mark W Wiebe AP561868073IA								
			 						
Date: 1/06/2022; Aircraft: N5LB; Type: CESSNA, T210N; S/N: 21063622; Tach: 4025.20; Total Time: 4025.20; Engine - Type: TSI0520R-R9B, S/N: 1011186, Time: 385.20; Prop - Type: PHC-J3YF-1RF, S/N: FP8468B, Time: 385.20 —Discrepancy— Annual inspection due. Completed an Annual inspection this date in accordance with F.A.R. 43 appendix d. Performed compression check with the following results: #1 - 78/80, #2 - 78/80, #3 - 78/80, #4 - 78/80, #5 - 74/80, #6 - 72/80. —Discrepancy— Oil change due. Drained oil and installed new filter CH48109-1. Cut open filter and inspected for metal contamination. No visible metal found at this time. Serviced engine with 10 quarts Aeroshell W100 plus. Washed engine and cowl. Ground run and leak check good. —Discrepancy— Oil sample due. Oil sample due. Oil sample taken and sent for analysis. —Discrepancy— Following the service of heat exchanger. No defects noted at this time. —Discrepancy— Full fitting on metering unit leaking. Removed fuel metering unit from engine to access fitting. Installed new fitting in metering unit and reinstalled assembly on engine. This engine is approved for return to service with respect to the work performed.									
Mark W Wiebe A	AP5618680)73IA							

	Total Time	Time Since Overha	Last Engine Se	rvice and I	Maintenance	Record
Date	Hours Min	Hours N	Record maintenation and c	ance actions inclusions	uding engine part pections, Airworthine	removal and ss Directives,
rried forward -						:
	LOYD'S AIRCRAFT MAINTE		AIRCRAFT MAINTENANCE 588 Fax (661) 393-2502	SO# 19846	N 5LB Tach: 3924.10 Eng. TT: 284.10	
	Work Accomplish Engine -	ned			Engine S/N: 1011186 Date: 7/3/2019	
	Performed compress	url annual inspection sna MM ML-C-200-7 ion check with the fo 80, #3 - 78/80, #4 -	20/80 #5 - 79/90 #6 75/90	Appendix D, and i.		
	Discrepancy: Oil change due.					-
	Resolution: Drained oil and insta No visible metal foun engine and cowl. Gro	d at uno unie. Servi	09-1. Cut open filter and inspected to ded engine with 10 quarts Aeroshell eck good.	or metal contamination. 50 Mineral oil. Washed		
	Discrepancy: Oil sample due. Resolution:					-
	Oil samples taken ar	d sent to A.O.A. for a	analysis.	Continue	d on next page:	
	Discrepancy: Cylinders #2, #4 hav	e low compression.			2 on next page:	
	Resolution: Cylinders 2, 4 remov	ed and sent to Ly Co	on Rebuilding for repair. Reinstalled ner information on repairs accomplis	repaired cylinder assemblies ned.		
	Discrepancy: Spark plugs wom. Resolution: Installed 24 new spa	rk plugs torqued per	: mfa enocification			
	Discrepancy: Oil hose from engine Resolution:	to turbocharger leak	king.			-
	Installed new hose.					
			n was performed on the above aircr n/Cessna MM ML-C-200-70,D2057,	REV 3. Dated: 01 MAD oc		A
	This engine is appro-	red for return to serv	ice with respect to the work perform	ed.		
	Mark W Wiebe AP56	18680/3IA				
	_ 1	J i	1			
	ПС	Loud's AIR	CRAFT MAINTENANCE, II			
	LOYD'S AIRCRAFT MAINTENANCE	(661) 393-1588	Fax (661) 393-2502	SO# 19981	N 5LB Tach: 3924.10 Eng. TT: 284.10	
	Work Accomplished Engine -				Engine S/N: 1011186 Date: 8/26/2019	
	Discrepancy: TIT indication intermittant Resolution: Installed new TIT probe a		al test good			-
	Discrepancy: Turbocharger leaking oil. Resolution:					
	Checked inlet and outlet	oil check valves. Inle et check valve with r	et valve found defective. Installed se new o-ring seal. Ground run and lea	rvicable inlet check k check good.		
	This series is enground					
	THIS engine is approved	for return to service	with respect to the work performed.			

	Total	Time		nce Last rhaul	Engine Service a	nd Maintenan	ce Record
Date	Hours	Min	Hours	Min	Record maintenance actions installation and compliance w Special Inspections, Modificati	ith inspections, Airworth	niness Directives.
Carried forward -		—					
			1	ı			
LOYD'S AIRCRAFT M			IRCRAFT A		30# 2007 1	N 5LB	
Work Accomp	olished					Date: 10/24/2019	
Engine - Discrepancy: Oil change due. Resolution: Drained oil and i No visible metal cowl. Ground rur	found at this t	ime. Service	3-1. Cut open of the dengine with	filter and insp 9 quarts Aero	ected for metal contamination. shell 50W100 Plus. Washed engine and		
Discrepancy: Oil sample due. Resolution: Oil samples take			alysis.			_	
This engine is a	oproved for re	turn to service	e with respect	to the work po	erformed.		
Take	uch	JA				-	
Mark W Wiebe A	AP561868073I	A	i 1		1		
becabes and felts Reas	(661) 393	-1588 Fax on right magr	neto.	AFTT: 3953 SO#	Tach: 3953.20 Eng. TT: 313.20		
degrees btc. Ground rur	and function	al test good.					
This engine is approved	for return to s	ervice with re	espect to the w	ork performed	d.		
Mark W Wiebe AP56186	100 58073IA						
Mark AA AAIGDG AII GO LOC							

	Total Time		Time Since Last Overhaul		Engine Service and Maintenance Record
Date	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



Loyd's AIRCRAFT MAINTENANCE, INC. (661) 393-1588 Fax (661) 393-2502

N 5LB

Tach: 3808.10 Eng. TT: 168.10 Engine S/N: 1011186

Date: 3/8/2017

Work Accomplished

Engine -

Completed an Annual inspection this date in accordance with F.A.R. 43 appendix d.

Performed compression check with the following results: #1 - 70/80, #2 - 70/80, #3 - 76/80, #4 - 74/80, #5 - 76/80, #6 - 72/80. -Discrepancy--

Oil change due.

Drained oil and installed new filter P/NCH48109-1. Cut open filter and inspected for metal contamination. No visible metal found at this time. Serviced engine with 9 quarts Aeroshell 50W100 Plus. Washed engine and cowl. Ground run and leak check good.

--Discrepancy--

Oil sample due.

Oil samples taken and sent to A.O.A. for analysis.

--Discrepancy--

Left mag timed to 20 degrees BTC should be 22 degrees BTC. Timed mag to 22 degrees BTC.

--Discrepancy--

AD 84-26-02 paper air filter inspection due.

Complied with AD by inspection and cleaning of induction air filter. No defects noted at this time.

-- Discrepancy--

AD 71-09-07 Heat exchanger pressure test due.

Complied with AD by pressure test of exhaust heat exchanger. No defects noted at this time.

This engine is approved for return to service with respect to the work performed.

Mark W Wiebe AP561868073IA

	Total Time		Time Since Last Overhaul		Engine Service and Maintenance Record		
Date	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		
Carried forward -		—					



Loud's AIRCRAFT MAINTENANCE, INC. (661) 393-1588 Fax (661) 393-2502

SO# 19100

N 5LB Tach: 3859.90 Eng. TT: 219.80 Engine S/N: 1011186

Date: 5/15/2018

Work Accomplished

Engine -

Discrepancy:

Annual Inspection due.

Resolution:

Completed a 100 hour/ annual inspection this date in accordance with FAR 43 Appendix D, and

Textron Aviation/Cessna MM D2057-3-13, 15 MAR 2014.

Performed compression check with the following results: #1 - 34/80,(Rechecked: 75/80) #2 - 72/80, #3 - 78/80, #4 - 68/80, #5 - 78/80, #6 - 74/80.

Discrepancy:

Cylinder #1 leaking past exhaust valve. Compression check: (34/80)

Resolution:

Cylinder and piston assembly removed and repaired by LyCon Rebuilding Inc. Cylinder assembly reinstalled on engine after repair with new gaskets and seals.

Engine ground run, compression rechecked for No.1 Cylinder: 75/80,no defects found.

Discrepancy:

Oil change due.

Drained oil and installed new filter CH48109-1. Cut open filter and inspected for metal contamination. No visible metal found at this time. Serviced engine with 9 quarts Aeroshell 50 Mineral Oil. Washed engine and cowl. Ground run and leak check good, no defects found

Discrepancy:

Oil sample due.

Resolution:

Oil samples taken and sent to A.O.A. for analysis.

I certify that a 100 hour/ Annual inspection was performed on the above engine, in accordance with FAR 43, Appendix D, and Textron/ Cessna MM inspection guide: MM D2057-3-13, 15 MAR 2014.

This engine is approved for return to service with respect to the work performed.

Mark W Wiebe AP561868073IA

Service Information

Consult the Continental Motors web site at continentalmotors.aero for engine related news or announcements. Continental Motors Internet Service contains useful information for Continental Motors engine owners, including electronic versions of the most current engine Instructions for Continued Airworthiness and service documents that may be pertinent to your engine model.

If Internet access is not available, contact our Customer Service Department at: 1-888-826-5465 Toll free in the United States or

1-251-436-8299 International

Engine Returns

Return engines for core credit with this log book to: Continental Motors, Inc. 2039 Broad Street Mobile, AL 36615 USA

Return engines for overhaul with this log book to: Continental Motors, Inc. **Factory Service Center** 8600 County Road 32 Fairhope, Alabama 36532 USA

> **USE ONLY FUEL SPECIFIED IN OPERATOR'S** MANUAL OR TYPE CERTICATE DATA SHEET **USE OF AUTOMOTIVE FUEL IS PROHIBITED**



Continental Motors

FAA PRODUCTION CERTIFICATE NO. 508

Printed: 10/17/2014

Test Date: 10/16/2014

This engine model TSI0520R9B, serial number 1011186 was rebuilt by Continental Motors Inc, in accordance with approved design data and the applicable requirements of 14 CFR, Part 21 and 43 of the Federal Aviation Regulation. The approved design data for this engine incorporates all changes required by applicable Airworthiness Directives and Continental Motors Service Bulletins.

> Momas HANDA CONTINENTAL MOTORS, INC.

Form 6012-04 (Rev Sept 2014)

	Total Time		Time Since Last Overhaul		Engine Service and Maintenance Record	
Date	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	



Loud's AIRCRAFT MAINTENANCE, INC.

P.O. Box 80958

Bakersfield, California 93380



Date: 11/25/2014; Aircraft: N5LB; Type: CESSNA, T210N; S/N: 21063622; Tach: 3640.00; Total Time: 3640.00; Engine - Type: TSIO520R-R9B, S/N: 1011186, Time:; Prop - Type: PHC-J3YF-1RF, S/N: FP8468B, Time:; Work Done At - Airframe Time: 3640.00,, Engine Cycles: 1584,

Shop Order #: 16355

Discrepancy

Annual inspection due.

Completed an Annual Inspection this date in accordance with F.A.R. 43 appendix d.

**Discrepancy*

Replace engine with factory remanufactured engine.

Removed TSIO520R-9B S/N 522251-H and installed Factory Rebuilt "0" time TSIO520R9B S/N 1011186. Engine installed with all new shock mounts. Turbo system was overhauled by Main Turbo Systems. Entire exhaust system was overhauled by Knisley Welding. All engine compartment flammable fluid hoses were replaced with new hose kit from Herber Aircraft. Factory new Hartzell PHC-J3YR-1RF propeller S/N FP8468B installed per STC# SA10615SC-D. Propeller governor was rebuilt by Johnson Propeller. Engine serviced with Phillips 20-50 type "M" mineral oil. Engine ground run and fuel flows checked and adjusted as required. Idle speed and mixture adjusted as required. No leaks noted.

Discrepancy

Remove turbo system including turbocharger, wastegate, controller, overboost valve for overhaul.

Removed turbocharger P/N 406610-5 S/N CC0117, Pressure relief valve P/N 470944 S/N IG0399, Wastegate P/N 470908-9011 S/N XD000229, Controller P/N 470688-0007 S/N UL-P0102. Units were sent to Main Turbo Systems Inc for overhaul. Units were reinstalled after overhaul with new gaskets and seals.

Discrepancy

Remove exhaust system complete for overhaul.

Removed exhaust system complete and sent to Knisley Welding for overhaul. Reinstalled exhaust system after overhaul **Discrepancy**

Replace engine compartment hoses.

Installed new hose kit P/N 1449-4 supplied by Herber Aircraft.

Discrepancy

Remove propeller governor for flush.

Removed propeller governor and sent to Johnson Propeller for flush and functional test. Governor was repaired and functionally tested. See yellow tag dated 10/16/2014. Unit was reinstalled on engine with new gasket.

This engine is approved for return to service with respect to the work performed.

Mark W Wiebe AP561868073IA

AIRCRAFT MAINTENANCE CONSULTANTS, LLC

201 West Grand Ave. Grover Beach, CA 93433

805-591-4486

TSIO520R9B N5LB

SER # 1011186 Tach: 3745.2

3/14/2016

Performed annual inspection IAW manufacturer's MM, and 100 hr checklist(s). Compression test performed: 74, 75, 76, 76, 76, 74/80. Drained oil, cut and inspected filter-no contaminants found. Installed new CH48109-1 filter. Serviced with 10 gts. Aeroshelll 100+. Checked magneto timing and found to be within limits. Removed sparkplugs, cleaned and gapped as necessary- #3 top & bottom & #4 bottom found to be oily-recommend customer investigate with engine installer for

I certify that this ENGINE was inspected in accordance with an annual inspection and is determined to be in airworthy condition.