

Continental Motors, Inc.

N400VT

ENGINE BOOK



Service Information

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

If internet access is not available, contact our Customer Service Department at: 1-88-826-5465 Toll free in the United States or

1-251-438-8299 International

Engine Returns

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

Mobile, AL 36615 USA

Mattituck, NY 11952 USA 410 Airway Drive Mattituck Services Return engines for overhaul with this log book to:

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



Continental otors, inc.

Production Certificate 508 Printed: 10/15/2013

Test Date: 10/15/2013

Service Bulletins. applicable Airworthiness Directives and Continental Motors data for this engine incorporates all changes required by approved design data and the applicable requirements of Part was manufactured by Continental Motors in accordance with This engine model 10550N68B, serial number the Federal Aviation Regulation. The approved design 1009226

Date Hours Total Time M n Time Since Last Overhaul Hours M n Record maintenance actions including engine part removal and installation and compliance with inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins Engine Service and Maintenance Record

HOBBS-29.6 IO 550N68B S/N-1009226 AIRCRAFT- N521KD

SOUTHERN AIR REPAIR

DATE-2/28/2014

FLT TIME-22.3

Oil sample taken. Filter cut fog metal check, found satisfactory. Perform 1st oil and filter change on engine sine new. Service engine with 8 qts. Phillips 20W50 mineral oil.

A&P3617489

Frank Kinsey Butler

IO550N68B S/N-1009226 AIRCRAFT-N521KD

SOUTHERN AIR REPAIR

DATE-3/21/2014

FLT. TIME-40.8 HOBBS-51.8

Change oil and filter. Service engine with 7.5 qts. Phillips X Country 20W50 oil. Cam guard added. Oil sample taken. Filter cut for metal check, found satisfactory. Leak check performed.

A&P3617489

Frank Kinsey Butler

IO550N68B S/N-1009226 AIRCRAFT-N521KD

SOUTHERN AIR REPAIR

5/27/2014

FLT. TIME-67.6

HOBBS-83.9

none found. Leak check preformed, found satisfactory. Change oil and filter. Service engine with Phillips 20w50 oil. Cam Guard added. Cut filter for metal check,

A&P3617489

Frank Kinsey Butler

AIRCRAFT-N521KD

IO550N68B S/N-1009226

FLT. TIME-88.4

HOBBS-109.1

SOUTHERN AIR REPAIR

6/19/2014

none found. Leak check preformed, found satisfactory. Change oil and filter. Service engine with Phillips 20w50 oil. Cam Guard added. Cut filter for metal check,

Frank Kinsey Butler

A&P3617489

SOUTHERN AIR REPAIR LLC.

DATE-8/12/2014

AIRCRAFT-N521KD IO550N68B S/N-1009226 FLT. TIME-108.1 HOBBS-133.1

Change oil and filter, Service engine with Phillips 20W50 X Country oil. Cam guard added. Cut filter for metal check, none found. Leak check performed, found satisfactory. Oil sample taken for analysis.

Carrie

A&P3617489

Frank Kinsey Butler

SOUTHERN AIR REPAIR LLC.

8/20/2014

AIRCRAFT-N521KD IO550NE8B S/N-1009226 **FLT. TIME-111.5** HOBBS-136.9

Perform 100 hour inspection on engine in accordance with cirrus sr22 service manual and in accordance with continental manual M-16. Compression: #1-80/78 #2-80/78 #3-80/78 #4-80/78 #5-80/78 #6-80/78. Bore scope all cylinders. Valve condition appeared normal. Perform SID 97-3e Continuous fuel flow check. All values within limits. Replace air filter BA-24. Check torque on all intake couplers. Tigiten rocker cover gaskets due to leakage. Gaskets to be replaced at next scheduled maintenance. Operation check performed on engine, and was found to be satisfactory.

A&P3617489

Frank Kinsey Butler

AIRCRAFT REG: N521KD

MFG: TCM MODEL: IO-550

SERIAL: 1009226 **HOUR METER: 143.2**

DATE: 9/10/14

WORK PACKAGE: P5057 TACH TIME: 116.4(FT)

TOTAL TIME:

Installed 12 each New Rocked Box Cover Gasket Ran up checked for leaks Found Ok for service. Ref TCM IO-550

The aircraft, airframe, engine, propeller or appliance identified above was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. Pertinent details of the repair are on the at this repair attain under work package no.

Eddie S. Taylor for Epps Air Service, Inc., ESMR688D, 1 Aviation Way, Atlanta, GA 30341

Page 1 of 1

		XC	MFG: MODEL:			ACKAGE: ACH TIME:	
	Aviation	1		1009226		TAL TIME:	10.2
	FORM TIME		UR METER:			TSMOH:	
	Drained engine oil. Too appeared normal. Insta 20W50XC engine oil.	ok AOA oil sample a alled new oil filter p/	and sent for a n CH48108-1	nalysis. Remove , torqued and sa	ed oil filter; cut o ftied. Serviced e	pen and insp engine with 8	pected; element 3 quarts Phillips
ied forwa							
	he aircraft, airframe, en	gine, propeller or ap	opliance ident	ified above was	repaired and ins	spected in a	ccordance with
t	current regulations of the	Federal Aviation A his repair station un	dministration der work pack	and is approved rage no.		vice. Pertin	ent details of
	Signed:		Eddie	S. Taylor	P5099		
	for Epps Air Service, Inc	:, ESMR688D, 1			341		
						age 1 of 1	
AIRC	RAFT-N521KD	SOLI	' ΓΗΕΡΝΙ Δ	IR REPAIR	IIC		
	ON68B S/N-100922	6	IIILKIN A	IN NEPAIN	LLC.		Date-12/12/20
FLT.	HOBBS-172.6						
Per with chec	BS-211.3 rform annual inspect Teledyne Continenta ked per data tag. Coi	mpressions: #1-8	Clean and § 80/78 #2-80	gap all plugs. R 0/78 #3-80/78	einstall with	new gaske	ts. Magneto timir
Per with chec filter found Hobb	form annual inspect Teledyne Continenta ked per data tag. Con . Service engine with d. Oil sample taken for os. Not due at this tin	al Manual M-16. mpressions: #1-8 of a Qts. Phillips 20 or analysis and to me. Wash down 6	Clean and g 30/78 #2-80 0W50 X Cou rending. Sal engine and	gap all plugs. R D/78 #3-80/78 untry oil. Cam mple returned nose gear. A.F	leinstall with it is #4-80/78 #5 guard added. I normal. SIDS	new gaske 5-80/78 # Oil filter o	ets. Magneto timil 6-80/78. Change cut for metal chec
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AIRCRAFT-N521KD IO550N68B S/N-1009226 FLT. HOBBS-204.2 HOBBS-251.7

Change oil and filter. Service engine with 8 Qts. Phillips 20W50 X country oil. Cam guard added. Filter cut for metal check, none found. Oil sample taken for analysis and trending.

A&P3617489

Frank Kinsey Butler

DOUGLAS DUNCAN AVIATION LLC 100 TOWER DR, HGR 6 GREENVILLE, SC 29607 LOG ID# 9900 16-June-2015 WO# 6200 REF# 6200 AC TT 217.8 HOBBS 268.3 CIRRUS SR22 S/N 4018 N521KD FHM 217.8 TSN 217.8 TSO 217.8

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ENGINE
*COMPLETED PRE-BUY CHECK ALL AD'S AND SB'S RESEARCHED THROUGH CURRENT ATP REVISION 6/8/2015.
REMOVED TOP 6 SPARK PLUGS FOR ACCESS TO COMPRESSION TEST, CLEANED, REPLACED CRUSH GASKETS PN:U674
AND REINSTALLED SPARK PLUGS.
COMPRESSION: #1-76/80; #2-73/80; #3-76/80; #4-76/80; #5-74/80; #6-75/80. (M/O:43/80 #)
REMOVED OIL FILTER & INSPECTED FOR METAL NONE FOUND INSTALLED & TORQUED NEW FILTER PN:CH48108-1
*AD 2014-05-29 ENGINE CYLINDER HEAD SEPARATION INSPECTION COMPLETED NO SAP CYLINDERS INSTALLED.

THE AIRCRAFT, ENGINE, COMPONENT, PROPELLER OR APPLIANCE IDENTIFIED ABOVE WAS REPAIRED IN ACCORDANCE WITH CURRENT FEDERAL AVIATION AGENCY REGULATIONS AND IS HEREBY APPROVED FOR RETURN TO SERVICE WITH REGARDS TO MAINTENANCE PERFORMED.

YES BANGLE

3399769 IA

6-14-15

DOUGLAS DUNCAN AVIATION LLC 100 TOWER DR, HGR 6 GREENVILLE, SC 29607 LOG ID# 9927 08-July-2015 WO# 6217 REF# 6217 AC TT 233.2 HOBBS 288.8 REF# 6217 AC TT 233.2 HOBBS 288.8 N521KD S/N 4018 **CIRRUS SR22** FHM 233.2

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ENGTHE

**PRAINED OIL; TOOK SAMPLE; REMOVED, INSPECTED, AND REPLACED OIL FILTER, P/N CH48108-1; SERVICED WITH 7 QTS PHILLIPS X/C 20w50 OIL. LEAK CHECK: GOOD. ALL IAW CIRRUS SR22 MM 12-10 **THE AIRCRAFT, ENGINE, COMPONENT, PROPELLER OR APPLIANCE IDENTIFIED ABOVE WAS REPAIRED IN ACCORDANCE REGARDS OF MAINTENANCE PERFORMED.

BRIAN KEITH WENDT

3178678 A&P

28 July-2015

DOUGLAS DUNCAN AVIATION LLC 100 TOWER DR, HGR 6 GREENVILLE, SC 29607 LOG ID# 10011 02-October-2015 WO# 6268 REF# 6268 AC TT 268.7 HOBBS 333.3 **SR22** FHM 268.7

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SINE RAINED OIL; TOOK SAMPLE; REMOVED, INSPECTED, AND REPLACED OIL FILTER, P/N CH48108-1; SERVICED WITH QTS PHILLIPS X/C 20W50 OIL. LEAK CHECK: GOOD. ALL IAW CIRRUS SR22 MM 12-10.

THE AIRCRAFT, ENGINE, COMPONENT, PROPELLER OR APPLIANCE IDENTIFIED ABOVE WAS REPAIRED IN ACCORDANCE WITH CURRENT FEDERAL AVIATION AGENCY REGULATIONS AND IS HEREBY APPROVED FOR RETURN TO SERVICE WITH

02-00+-2015

BRIAN KEITH WEND

3178678 A&P

DATE

DOUGLAS DUNCAN AVIATION LLC 100 TOWER DR, HGR 6 GREENVILLE, SC 29607 LOG ID# 10056 19-November-2015 WO# 6297 REF# 6297 AC TT 292.7 HOBBS 360.5 TSN 292.7 TSO 292.7

Pg 1/1

ENGINE

ENGINE
*REMOVED SKYTEC STARTER PN:C24ST3 SN:4C3-371319 AND INSTALLED HARTZELL STARTER PN:ES646275-1,
SN: H-P101498 OPS CHECKED GOOD.
*THE AIRCRAFT, ENGINE, COMPONENT, PROPELLER OR APPLIANCE IDENTIFIED ABOVE WAS REPAIRED IN ACCORDANCE WITH CURRENT FEDERAL AVIATION AGENCY REGULATIONS AND IS HEREBY APPROVED FOR RETURN TO SERVICE WITH

BRIAN KEITH WENDT

3178678 A&P

9-NOV-2015

DOUGLAS DUNCAN AVIATION LLC 100 TOWER DR, HGR 6 GREENVILLE, SC 29607 LOG ID# 10106 11-January-2016 WO# 6320 REF# 6320 AC TT 309.0 HOBBS 380.6 N400VT S/N 4018 CIRRUS SR22 Pg 1/1 ra FHM 309.0 TSN 309.0 TSO 309.0 and **ENGINE SN1009226** *COMPLETED ANNUAL INSPECTION IAW FAR 91.409, FAR 43 APPENDIX D, AND CIRRUS SR20/22/22TN/22T MM 5-00. AND SB'S RESEARCHED THROUGH CURRENT ATP REVISION 1/5/2016. NEXT ANNUAL INSPECTION DUE 01/23017. ves 01/23017.
COMPLIED WITH TCM TOPCARE HEALTH CHECKLIST FORM, CYLINDER BORE INSPECTION, AND COMPRESSION CHECK PER SID 97-2 AND SB03-3.
COMPRESSION: #1-69/80; #2-74/80; #3-75/80; #4-73/80; #5-71/80; #6-71/80. (M/O:43/80#)DRAINED OIL; COMPRESSION: #1-69/80; #2-74/80; #3-75/80; #4-73/80; #5-71/80; #6-71/80. (M/O:43/80#)DRAINED OIL; TOOK SAMPLE; REMOVED, INSPECTED, AND REPLACED OIL FILTER, P/N CH48108-1; SERVICED WITH 7 QTS PHILLIPS X/C 20W50 OIL. LEAK CHECK: GOOD. ALL IAW CIRRUS SR22 MM 12-10.
REMOVED, CLEANED, INSPECTED, TESTED, AND REINSTALLED ALL SPARK PLUGS IAW CIRRUS SR22 MM 74-20 & MFG INSTRUCTIONS. OPS CHECK: GOOD.
COMPLIED WITH FUEL SYSTEM SETUP PER SID 97-3G. OPS/LEAK: GOOD. I CERTIFY THAT THIS AIRCRAFT, ENGINE, OR PROPELLER HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION. THE AIRCRAFT, ENGINE, COMPONENT, PROPELLER OR APPLIANCE IDENTIFIED ABOVE WAS REPAIRED IN ACCORDANCE WITH CURRENT FEDERAL AVIATION AGENCY REGULATIONS AND IS HEREBY APPROVED FOR RETURN TO SERVICE WITH REGARDS TO MAINTENANCE PERFORMED. ara Dan 399769 IA YVES BANGLE 2 PINT Campunes Steve Surrell JAN 13 12014 DOUGLAS DUNCAN AVIATION LLC 100 TOWER DR, HGR 6 GREENVILLE, SC 29607 LOG ID# 10148 10-March-2016 WO# 6352 REF# 6352 AC TT 328.9 HOBBS 405.5 Pg 1/1 SR22 S/N 4018 CIRRUS N400VT TSN 328.9 TSO 328.9 FHM 328.9 *DRAINE SN.1009220 *DRAINED OIL; TOOK SAMPLE; REMOVED, INSPECTED, AND REPLACED OIL FILTER, P/N CH48108-1; SERVICED WITH 7 QTS PHILLIPS X/C 20W50 OIL. LEAK CHECK: GOOD. ALL IAW CIRRUS SR22 MM 12-10 ENGINE SN:1009226 *THE AIRCRAFT, ENGINE, COMPONENT, PROPELLER OR APPLIANCE IDENTIFIED ABOVE WAS REPAIRED IN ACCORDANCE WITH CURRENT FEDERAL AVIATION AGENCY REGULATIONS AND IS HEREBY APPROVED FOR RETURN TO SERVICE WITH REGARDS TO MAINTENANCE PERFORMED. 10-March-2016 DATE 3178678 A&P KEITH WENDT 02 10/16 DOUGLAS DUNCAN AVIATION LLC 100 TOWER DR, HGR 6 GREENVILLE, SC 29607 LOG ID# 10465 03-February-2017 WO# 6514 REF# 6514 AC TT 379.9 HOBBS 472.9 Pg 1/1 N400VT S/N 4018 CIRRUS **SR22** FHM 379.9 TSN 379.9 TSO 379.9 ENGINE
*COMPLETED ANNUAL INSPECTION IAW FAR 91.409, FAR 43 APPENDIX D, AND CIRRUS SR20/22/22TN/22T MM 5-00.
ALL AD'S AND SB'S RESEARCHED THROUGH CURRENT FAA BIWEEKLY 2017-02. NEXT ANNUAL INSPECTION DUE 02/2018.
COMPLIED WITH TCM TOPCARE HEALTH CHECKLIST FORM, CYLINDER BORE INSPECTION, AND COMPRESSION CHECK PER SID 97-2 AND SB03-3.
COMPRESSION: #1-72/80; #2-68/80; #3-68/80; #4-67/80; #5-71/80; #6-68/80. (M/O:41/80#)
COMPRESSION: #1-72/80; #2-68/80; #3-68/80; #4-67/80; #5-71/80; #6-68/80. (M/O:41/80#)
REMOVED, CLEANED, INSPECTED, AND REINSTALLED FUEL INJECTORS WITH NEW SEALS AS REQUIRED. LEAK CHECK: REMOVED, CLEANED, INSPECTED, AND TCM MANUAL X30634A. NEXT CLEANING DUE AT 679.9 FHM REMOVED, CLEANED, INSPECTED, AND REINSTALLED ALL SPARK PLUGS IAW CIRRUS SR22 MM 74-20 & MFG INSTRUCTIONS. OPS CHECK: GOOD.
INSTRUCTIONS. OPS CHECK: GOOD.
DRAINED OIL; TOOK SAMPLE; REMOVED, INSPECTED, AND REPLACED OIL FILTER, P/N CH48108-1; SERVICED WITH DRAINED OIL; TOOK SAMPLE; REMOVED, INSPECTED, AND REPLACED OIL FILTER, P/N CH48108-1; SERVICED WITH OTS PHILLIPS X/C 20W50 OIL. LEAK CHECK: GOOD. ALL IAW CIRRUS SR22 MM 12-10.
COMPLIED WITH FUEL SYSTEM SETUP PER SID 97-3G. OPS/LEAK: GOOD. I CERTIFY THAT THIS AIRCRAFT, ENGINE, OR PROPELLER HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION.

THE AIRCRAFT, ENGINE, COMPONENT, PROPELLER OR APPLIANCE IDENTIFIED ABOVE WAS REPAIRED IN ACCORDANCE WITH CURRENT FEDERAL AVIATION AGENCY REGULATIONS AND IS HEREBY APPROVED FOR RETURN TO SERVICE WITH DECAPOR TO MAINTENANCE DERECORMED. REGARDS TO MAINTENANCE PERFORMED. 2-3-/7 DATE lough in A&P/IA 3384163 DOUGLAS DUNCAN

Cai

	Total	Time	Time Sir Over	nce Last rhaul	Engine Service and Maintenance Reco
Date	Hours	Min	Hours	Min	Record maintenance actions including engine part removal a installation and compliance with inspections, Airworthiness Directive Special Inspections, Modifications and Service Bulletins
ied forward -		→			
					ED DO LICE & CREENVILLE SC 29607
LOG ID#	10585 3	0-June-20	01/ WO#	1900	ER DR, HGR 6 GREENVILLE, SC 29607 EF# 6587 AC TT 404.6 HOBBS 503.5
FHM 404	S/N 401 I.6 TSN		TSO 404.6	R22 6	791/1
7 QTS PH	ILLIPS X/C RAFT, ENGI ZENT FEDER	C 20250 (INE, COMI RAL AVIAT	DIL. LEAK PONENT, PR FION AGENO	CHECK: G ROPELLER CY REGULA	D, AND REPLACED OIL FILTER, P/N CH48108-1; SERVICED WITH COOD. ALL IAW CIRRUS SR22 MM 12-10. OR APPLIANCE IDENTIFIED ABOVE WAS REPAIRED IN ACCORDANCE TIONS AND IS HEREBY APPROVED FOR RETURN TO SERVICE WITH
BRIAN KEIT	U WENDT	21	.78678 A&P	30	-J4nc-2017
BRIAN KEIT	H WENDI	31	.78676 AQP		DATE
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