

# Aircraft Engine Test Verification

This document verifies that the engine model listed below has satisfactorily completed all testing listed below in accordance with CM standard engine testing specifications as approved by the FAA.

Engine Model IO550N68B

Engine Serial Number 1034479

## Testing Completed

Standard Acceptance Test:

Date of Completion 8/10/2017 Test Operator 31645



**Continental Motors, Inc.**

Form No 98344

# Warranty Information

This product is covered by Continental Motors Group product warranty. To read or download a copy for your records, please visit the Product Warranty page on the Continental Motors web site at:

[http://continentalmotors.aero/Factory\\_Services/Product\\_Warranty/](http://continentalmotors.aero/Factory_Services/Product_Warranty/)

For complete access to the engine Instructions for Continued Airworthiness, Illustrated Parts Catalogs, Service Documents, Technical Briefs, and company new and upcoming events, please take a few moments to register your engine model and serial number by updating your existing Aviator Services account. If you don't have an Aviator Services account, create a new account at the following link:

[http://continentalmotors.aero/Create\\_Aviator\\_Profile/](http://continentalmotors.aero/Create_Aviator_Profile/)



**Continental Motors**



# Continental Motors

## Engine Component Information Sheet

Printed: 08/11/2017

Serial: 1034479

Assembled: / /

Spec: I0550N68B

Shipped: / /

New/Rebuilt: (NEW)

Packed: 08/11/2017

Customer Name: CIRRUS DESIGN CORPORATION

Shipping Address: DULUTH INTERNATIONAL AIRP

Component	Serial Number	Component	Serial Number
CAMSHAFT	360297	OIL COOLER	G17-14006-318
CRANKSHAFT	N17DA070	CYLINDER-1	AC17FA770
CRANKCASE	R17EA058	CYLINDER - 2	AC17FA769
CONNROD	AE17FA324	CYLINDER - 3	AC17FB054
CONNROD	AE17FA287	CYLINDER - 4	AC17EB769
CONNROD	AE17FA266	CYLINDER - 5	AC17FB075
CONNROD	AE17FA306	CYLINDER - 6	AC17EC034
CONNROD	AE17FA261	NOZZLE - 1	1234
CONNROD	AE17FA604	NOZZLE - 2	2234
L MAGNETO	D17FA012	NOZZLE - 3	3239
R MAGNETO	D17EA072	NOZZLE - 4	4236
FUEL PUMP	B17FA044	NOZZLE - 5	5236
MANIFOLD VALVE	C17FA078	NOZZLE - 6	6229
METERING UNIT	A17FA064		
STARTER	H-R042170		
ALTERNATOR	H-R041871		

Pack Inspection Stamp



All of the information provided herein is subject to verification by the user. Continental Motors, Inc. makes no representation or warranty concerning the accuracy or completeness of the information and assumes no responsibility with respect thereto.

Engine Model	IO-550N68B
Serial#	1034479
Test Document	TH-3215 Rev K
Software/Form Release#	2.03, 05/12/17
Start Time	8/10/2017, 07:26:23
Accepted Time	8/10/2017, 09:17:12
Cell# & Operator	7, 31645
Sea Level Power	310 HP @ 2700 Prop RPM
Vapor Pressure	0.93 in HG
Temp, Wet Baro	82.34 F, 30.07 in HG



**Continental Motors**

**Aircraft Engine  
Standard  
Acceptance  
Test Log**  
(Form TH-125)

Test Club#	D2335A
Rqrd Pitch	20.0
Actual Pitch	20.0
Mixture Check	Pass
Alternator Check	

Mag Data	Required	Actual
Eng Speed Both	2100	2038
Eng Speed Right	N/A	2040
Right Mag Drop	150	49
Eng Speed Left	N/A	2054
Left Mag Drop	150	34
Mag Drop Spread	50	14
Fuel Flow (Ref.)	62	60

**Note: Magneto check between Run 2 & 3**

Run Information	Run 1	Run 2	Run 3	Run 4	Run 5	Run 6	Run 7	Run 8
Time Of Day	07:30:03	07:31:27	07:35:09	07:48:59	08:00:19	08:13:20	08:29:19	08:48:40
Run Time Rqd (MM:SS)	01:00	01:00	01:00	10:00	10:00	01:00	10:00	05:00
Run Time	01:59	01:14	01:45	10:00	10:00	01:00	10:00	05:00
Prop Speed Rqd (RPM)	1175-1225	1575-1625	2425-2475	2735-2785	2502-2527	575-625	2495-2520	2496-2521
Prop Speed	1200	1595	2449	2739	2516	622	2508	2507
Manifold Press Rqd (inHg)	N/A	N/A	N/A	26.1-29.1	N/A	18.5 MAX	N/A	N/A
Manifold Press	8.8	10.5	20.2	27.6	23.1	11.9	22.7	22.7
Turbo Dis Press Rqd (inHg)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Turbo Dis Press	30.0	30.1	30.1	30.1	30.1	30.0	30.0	30.1
Fuel Flow Rqd (lb/hr)	N/A	N/A	N/A	152.5-162.5	108.5-124.5	N/A	N/A	N/A
Fuel Flow	-0.8	6.5	92.9	154.6	114.6	7.6	112.0	112.1
Nozzle Press Rqd (PSID)	N/A	N/A	N/A	19.9-20.5	12.5-13.7	N/A	N/A	N/A
Nozzle Press	4.3	4.9	10.2	20.1	12.9	3.4	12.8	12.8
Fuel Pump Press Rqd (PSIG)	N/A	N/A	N/A	30.0 REF	N/A	8.0-10.0	N/A	N/A
Fuel Pump Press	14.2	17.8	26.9	29.3	29.0	9.1	29.2	29.1
Fuel Temp Rqd (°F)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Fuel Temp	76	74	69	67	71	74	69	69
Ambient Temp Rqd (°F)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Ambient Temp	82	84	88	89	92	87	89	90
Eng Inlet Oil Temp Rqd (°F)	90-240	120-240	165-240	180-240	165-240	140-240	165-240	165-240
Eng Inlet Oil Temp	99	120	174	180	201	183	171	172
Eng Oil Press Rqd (PSIG)	30.0 MIN	30.0 MIN	30.0 MIN	49.6-60.6	30.0 MIN	16.0 MIN	30.0 MIN	30.0 MIN
Eng Oil Press	81.7	83.2	77.4	58.8	52.7	23.0	60.7	60.3
Min Cylinder Temp Rqd (°F)	150 MIN	175 MIN	250 MIN	250 MIN	250 MIN	N/A	250 MIN	250 MIN
Max Cylinder Temp Rqd (°F)	460 MAX	460 MAX	460 MAX	460 MAX	460 MAX	460 MAX	460 MAX	460 MAX
Cylinder 1 Temp	166	218	336	367	386	287	298	304
Cylinder 2 Temp	163	219	346	369	403	295	328	334
Cylinder 3 Temp	161	205	306	332	361	268	285	294
Cylinder 4 Temp	170	215	324	334	362	268	310	316
Cylinder 5 Temp	162	209	308	335	351	256	291	299
Cylinder 6 Temp	150	181	250	262	274	207	250	250
Collar Press Differential Rqd (PSID)	N/A	N/A	N/A	15.6 MAX	N/A	N/A	N/A	N/A
Collar Press Differential	1.6	1.5	1.0	0.7	0.5	0.0	0.8	0.9

## Service Information

Consult the Continental Motors web site at [continentalmotors.aero](http://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 CERTIFICATE DATA SHEET  
USE OF AUTOMOTIVE FUEL IS PROHIBITED**



## Continental Motors

FAA PRODUCTION CERTIFICATE NO. 508

Printed: 08/11/2017

Test Date: 08/11/2017

This engine model I0550N68B, serial number 1034479 was manufactured by Continental Motors, Inc. in accordance with approved design data and the applicable requirements of 14 CFR, Part 21. The approved design data for this engine incorporates all changes required by applicable FAA Airworthiness Directives and Continental Motors Service Bulletins.

  
CONTINENTAL MOTORS, INC.

Total Time

Time Since Last  
Overhaul

# Engine Service and Maintenance Record

Date

Approval and  
Directives,

ENGINE MODEL:  
IO-550N68  
ENGINE S/N: 1034479  
REG. NO: N923PT  
WORK ORDER:  
4005-10-2017



**Waterford Aviation, Inc.**  
6548 Highland Rd  
Suite 900  
Waterford, MI 48327  
Phone: 248-724-2400

DATE: 13 October, 2017  
A/C TSN: 24.7  
ENG TT: 24.7  
TSMOH:  
FLIGHTTIME: 24.7

### Engine Entries

Complete Cirrus Delivery Quality Check II - First 25-Hour Inspection IAW Cirrus AMM 5-20 and Continental Maintenance Manual M-16 Table 6-12  
25-Hour Initial Operation Inspection Checklist. Drained oil, removed filter, inspected for contaminants - none found. Installed new AA48108-2 filter and serviced sump with 7 qts Phillips 20W-50 MINERAL oil. Differential compression check: #1 69 #2 68 #3 68 #4 69 #5 72 #6 69 MO 45, all over 80 psi.  
Operational and leak checks satisfactory.  
C/W SID97-3F Fuel Pressure functional Inspection Revision Date 01/21/2015. Fuel pressures and flows within limits. OK for return to service at this time.

DATE: 13 October, 2017

SIGNED:

Jeff Bowers, A&P: 2738624

Work Order: 4005-10-2017

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ENGINE MODEL:  
IO-550N68  
ENGINE S/N: 1034479  
REG. NO: N923PT  
WORK ORDER:  
4073-12-2017



**Waterford Aviation, Inc.**  
6548 Highland Rd  
Suite 900  
Waterford, MI 48327  
Phone: 248-724-2400

DATE: 06 December, 2017  
A/C TSN: 45.4  
ENG TT: 45.4  
TSMOH:  
FLIGHTTIME: 45.4

### Engine Entries

Drained oil and removed oil filter. Cut filter open to inspect for contaminants, none found at this time. Installed new oil filter CH48108-1. Serviced engine with 7 qts Phillips X/C 20W50 and CamGuard as required. Performed post maintenance run-up and leak check. No leaks noted at this time.  
Performed differential compression check: #1: 70 #2: 69 #3: 67 #4: 68 #5: 72 #6: 70, MO: 45, all over 80PSI.

DATE: 06 December, 2017

SIGNED:

Sean Farrelly, A&P: 3890041

Work Order: 4073-12-2017

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ENGINE MODEL:  
IO-550N68  
ENGINE S/N: 1034479  
REG. NO: N923PT  
WORK ORDER:  
4197-04-2018



**Waterford Aviation, Inc.**  
6548 Highland Rd  
Suite 900  
Waterford, MI 48327  
Phone: 248-724-2400

DATE: 09 April, 2018  
A/C TSN: 87.8  
ENG TT: 87.8  
TSMOH:  
FLIGHTTIME: 87.8

### Engine Entries

Drained oil and took sample to be evaluated at Blackstone Labs, removed oil filter. Cut filter open to inspect for contaminants, none found at this time. Installed new oil filter CH48108-1. Serviced engine with 7 qts Phillips X/C 20W50 and CamGuard as required. Performed post maintenance run-up and leak check. No leaks noted at this time.

DATE: 09 April, 2018

SIGNED:

Karl Nelson, A&P: 3525379

Work Order: 4197-04-2018

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ENGINE MODEL:  
IO-550N68  
ENGINE S/N: 1034479  
REG. NO: N923PT  
WORK ORDER:  
4338-07-2018



**Waterford Aviation, Inc.**  
6548 Highland Rd  
Suite 900  
Waterford, MI 48327  
Phone: 248-724-2400

DATE: 10 July, 2018  
A/C TSN: 132.5  
ENG TT: 132.5  
TSMOH:  
FLIGHTTIME: 132.5

### Engine Entries

Drained oil and took sample to be evaluated at Blackstone Labs, removed oil filter. Cut filter open to inspect for contaminants, none found at this time. Installed new oil filter CH48108-1. Serviced engine with 7 qts Phillips X/C 20W50 and CamGuard as required. Performed post maintenance run-up and leak check. No leaks noted at this time.

DATE: 10 July, 2018

SIGNED:

Karl Nelson, A&P: 3525379

Work Order: 4338-07-2018

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

Carried forward →

ENGINE MODEL:  
IO-550N68  
ENGINE S/N: 1034479  
REG NO: N923PT  
WORK ORDER:  
4537-10-2018



**Waterford Aviation, Inc.**  
6548 Highland Rd  
Suite 900  
Waterford, MI 48327  
Phone: 248-724-2400

DATE: 30 October, 2018  
A/C TSN: 178.6  
ENG TT: 178.6  
TSMOH:  
FLIGHTTIME: 178.6

**Engine Entries**

Completed Annual Inspection in scope & detail of FAR 43 App. D and using Cirrus SR22 Service Manual Checklist as a guide. Researched AD's thru bi-weekly 2018-21 - none due at this time. Performed differential compression check. #1 67, #2 68, #3 66, #4 64, #5 70, #6 71, MO 45, all over 80 PSI. Performed borescope inspection of cylinders. Lubricated engine controls as required. I certify that this Engine has been inspected in accordance with an Annual Inspection and has been found to be in Airworthy condition.  
 Drained oil and took sample to be evaluated at Blackstone Labs. removed oil filter. Cut filter open to inspect for contaminants. none found at this time. Installed new oil filter CH48108-1. Serviced engine with 7 qts Phillips X/C 20W50 and CamGuard as required. Performed post maintenance run-up and leak check. No leaks noted at this time.  
 Adjusted fuel flows, pressures and idle mixture/speed IAW CMI M-0 Standard Practices Manual. Performed grund run. all ops check good. leak check good.

DATE: 30 October, 2018

SIGNED:

Luke Hall, A&P: 3695185 IA

Work Order: 4537-10-2018

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ENGINE MODEL:  
IO-550N68  
ENGINE S/N: 1034479  
REG NO: N923PT  
WORK ORDER:  
4717-01-2019



**Waterford Aviation, Inc.**  
6548 Highland Rd  
Suite 900  
Waterford, MI 48327  
Phone: 248-724-2400

DATE: 22 January, 2019  
A/C TSN: 216.3  
ENG TT: 216.3  
TSMOH:  
FLIGHTTIME: 216.3

**Engine Entries**

Drained oil and took sample to be evaluated at Blackstone Labs. removed oil filter. Cut filter open to inspect for contaminants. none found at this time. Installed new oil filter CH48109-1. Serviced engine with 7 qts Phillips X/C 20W50 and CamGuard as required. Performed post maintenance run-up and leak check. No leaks noted at this time.

DATE: 22 January, 2019

SIGNED:

Sean Farrelly, A&P: 3890041

Work Order: 4717-01-2019

Printed by EBis 3 (datcomedia.com)

ENGINE MODEL:  
IO-550N68  
ENGINE S/N: 1034479  
REG NO: N923PT  
WORK ORDER:  
4845-04-2019



**Waterford Aviation, Inc.**  
6548 Highland Rd  
Suite 900  
Waterford, MI 48327  
Phone: 248-724-2400

DATE: 02 April, 2019  
A/C TSN: 250.9  
ENG TT: 250.9  
TSMOH:  
FLIGHTTIME: 250.9

**Engine Entries**

Drained oil and took sample to be evaluated at Blackstone Labs. removed oil filter. Cut filter open to inspect for contaminants. none found at this time. Installed new oil filter AA8108-2. Serviced engine with 7 qts Phillips X/C 20W50 and CamGuard as required. Performed post maintenance run-up and leak check. No leaks noted at this time.







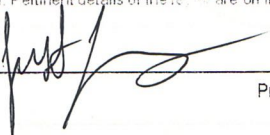
DATE: 02 April, 2019

SIGNED:

Sean Farrelly, A&P: 3890041

Work Order: 4845-04-2019

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Date	Total Time		Time Since Last Overhaul		<b>Engine Service and Maintenance Record</b>
	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					
Carr	ENGINE MODEL: IO-550N68 ENGINE S/N: 1034479 REG. NO: N923PT WORK ORDER: 5011-06-2019		 <b>Waterford Aviation, Inc.</b> 6548 Highland Rd Suite 900 Waterford, MI 48327 Phone: 248-724-2400		DATE: 19 June, 2019 A/C TSN: 282 ENG TT: 282 TSMOH: FLIGHTTIME: 282
<b>Engine Entries</b>					
· Drained oil and took sample to be evaluated at Blackstone Labs, removed oil filter. Cut filter open to inspect for contaminants, none found at this time. Installed new oil filter AA48108-2. Serviced engine with 7 qts Phillips X/C 20W50 and CamGuard as required. Performed post maintenance run-up and leak check. No leaks noted at this time.					
DATE: 19 June, 2019		SIGNED: 		Work Order: 5011-06-2019	
		Sean Farrelly, A&P: 3890041		Printed by EBis 3 (datcomedia.com)	
ENGINE MODEL: IO-550N68 ENGINE S/N: 1034479 REG. NO: N923PT WORK ORDER: 5117-08-2019		 <b>Waterford Aviation, Inc.</b> 6548 Highland Rd Suite 900 Waterford, MI 48327 Phone: 248-724-2400		DATE: 06 August, 2019 A/C TSN: 314.1 ENG TT: 314.1 TSMOH: FLIGHTTIME: 314.1	
<b>Engine Entries</b>					
· Drained oil and took sample to be evaluated at Blackstone Labs, removed oil filter. Cut filter open to inspect for contaminants, none found at this time. Installed new oil filter CH48109-1. Serviced engine with 7 qts Phillips X/C 20W50 and CamGuard as required. Performed post maintenance run-up and leak check. No leaks noted at this time.					
DATE: 06 August, 2019		SIGNED: 		Work Order: 5117-08-2019	
		Sean Farrelly, A&P: 3890041		Printed by EBis 3 (datcomedia.com)	
ENGINE MODEL: IO-550N68 ENGINE S/N: 1034479 REG. NO: N923PT WORK ORDER: 5190-09-2019		 <b>Waterford Aviation, Inc.</b> 6548 Highland Rd Suite 900 Waterford, MI 48327 Phone: 248-724-2400		DATE: 03 October, 2019 A/C TSN: 318.9 ENG TT: 318.9 TSMOH: FLIGHTTIME: 318.9	
<b>Engine Entries</b>					
· Completed Annual Inspection in scope & detail of FAR 43 App. D and using Cirrus SR22 Service Manual Checklist as a guide. Researched AD's thru bi-weekly 2019-19 - none due at this time. Performed differential compression check: #1) 58, #2) 71, #3) 72, #4) 58, #5) 62, #6) 70 all over 80 psi. MO 43/80. Performed borescope inspection of cylinders - no defects noted at this time. Lubricated engine controls as required. I certify that this Engine has been inspected in accordance with an Annual Inspection and has been found to be in Airworthy condition.					
DATE: 03 October, 2019		SIGNED: 		Work Order: 5190-09-2019	
		Luke Hall, A&P: 3695185 IA		Printed by EBis 3 (datcomedia.com)	
ENGINE MODEL: IO-550-N(68) ENGINE S/N: 1034479 REG. NO: N923PT WORK ORDER: 31452-01-2020		<b>First Flight Aviation</b> 10570 Springboro Pike Miamisburg, Ohio 45342 USA Phone: 937-885-5580		DATE: 1/28/2020 A/C TSN: ENG TT: FLIGHTTIME: 345.4	
<b>Engine Entries</b>					
(2) Changed oil and filter. Serviced with Phillips XC 20W50 oil and AA48108-2 filter. Cut open and inspected old filter, no defects noted.					
Maintenance Release					
The aircraft and/or component(s) on N923PT was repaired and inspected in accordance with current FARs rules of the Federal Aviation Regulations and was found Airworthy for return to service with respect to the work performed. Pertinent details of the repair are on file at this repair station under Work Order No. 31452-01-2020.					
DATE: 1/28/2020		SIGNED: 		Work Order: 31452-01-2020	
		Sparks, Justin, A&P: AP3442636		Printed by EBis 3 (datcomedia.com)	

ENGINE MODEL:  
IO-550-N(68B)  
ENGINE S/N: 1034479  
REG. NO: N923PT  
WORK ORDER:  
32039-10-2020



**First Flight Aviation**

10600 Springboro Pike  
Miamisburg, Ohio 45342 USA  
Phone: 937-885-5580

DATE: 10/19/2020  
A/C TSN: 397.3  
ENG TT: 397.3  
FLIGHTTIME: 397.3

**ce Record**

art removal and  
Business Directives,  
S

**Engine Entries**

- (3) Completed Annual inspection in accordance with FAR 91.409, referencing the Cirrus SR-22 maintenance manual. This engine has been determined to be airworthy. AD's researched thru current date.
- (5) Checked Compression - 1) 64/80; 2) 68/80; 3) 68/80; 4) 63/80; 5) 66/80; 6) 68/80; MO 42/80.
- (6) Changed engine oil. Cut open and inspected old filter, no defects noted. Installed new filter AA48108-2. Serviced engine with Philips XC 20W50.
- (9) Complied with AD 2020-16-11 in accordance with Continental MSB18-08 B on all cylinders. No further action required.

I certify that this aircraft was inspected in accordance with an annual inspection and found to be airworthy.  
The aircraft and/or component(s) on N923PT was repaired and inspected in accordance with current FAR's rules of the Federal Aviation Regulations and was found Airworthy for return to service. Pertinent details of the repair are on file at this repair station under Work Order No. 32039-10-2020

DATE: 10/19/2020

SIGNED:

Work Order: 32039-10-2020

Sparks, Justin, IA: 3442636

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