

# ENGINE LOG BOOK





# Continental Motors

FAA PRODUCTION CERTIFICATE NO. 508

Printed:09/09/2015

Test Date:09/08/2015

This engine model I0550N68B, serial number 1031162 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.

*Thomas Howard*

**CONTINENTAL MOTORS, INC.**

Date	Total Time		Overhaul		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	

**NASSAU FLYERS "A 3-D AVIATION COMPANY"**  
**1300 NEW HIGHWAY - FARMINGDALE, NEW YORK 11735**  
**631-454-0626 / 631-454-1606 / WWW.FLYNFI.COM**

**N814LT (S/N 3568) October 15, 2015 Flight Hobbs: 2,008 EngTT: 0.0**  
 Installed Engine TCM IO550N68B S/N 1031162 on this Aircraft N814LT with all new supplied components from Continental Motors Inc. (magnetos, starter, oil cooler, oil filter alternator #1, alternator #2, Fuel nozzles/lines/manifold valve/injector/pump). Serviced engine with 8 quarts Phillips 20w 50 Mineral Oil. Installed 12 new spark plugs (URHB32S). Replaced all flexible fuel lines in engine compartment with new. Installed new engine vibration mounts. Repaired engine baffling at right rear, left rear, left deck, and right deck. Replaced forward spinner baffle with new (15480-003). Replaced cracked muffler with new (14836-001). Replaced torn heat exchanger duct with new (SCAT 2 1/2" x 32"). Replaced defective EGT probe on #1 cylinder with new (24585-001). Performed post inspection run up and leak check, no defects noted. All work was performed in accordance with current applicable manufacturer's recommendations. I certify that this ENGINE has been inspected in accordance with a 100 HOUR inspection as outlined in FAR 43 Appendix D and was determined to be in an airworthy condition. This ENGINE is approved for return to service. ----- end -----

*Roberto Ruiz*  
 Roberto Ruiz, A&P 3233677

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**N814LT (S/N 3568) October 30, 2015 Flight Hobbs: 2,021**  
 Troubleshoot pilot report of "#4 EGT reads lower than rest of cylinders", found #4 cylinder EGT probe defective. Replaced #4 cylinder EGT probe with new (24585-001) and performed an operational check of same, no defects noted. All work performed in accordance with current applicable manufacturer's recommendations. This ENGINE is approved for return to service regarding the work performed, this date and time. ----- end -----

*Roberto Ruiz*  
 Roberto Ruiz, A&P 3647763

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**N814LT (S/N 3568) December 3, 2015 Flight Hobbs: 2,031**  
 Ran engine to normal operating temperature. Drained engine oil, serviced engine with 8 quarts Aeroshell 15w 50 oil. Replaced oil filter (CH48-108) with new and safetied. Ran engine and leak checked, no leaks noted. All work was performed in accordance with current applicable manufacturer's recommendations. This ENGINE is approved for return to service regarding the work performed, this date and time. ----- end -----

*Michael Quagliano*  
 Michael Quagliano, A&P 3108957

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**N814LT**  
 Performed pre inspi  
 Phillips 20w 50XC o  
 defects noted. Wa  
 performed in accor  
50 HOUR inspectic  
*Daniel Purta, A*



**Charles B Wheeler Downtown Airport**  
**701 NW Lou Holland Dr. Kansas City MO 64116**

AIRCRAFT	S/N 3568				
REG. NO.	DATE:	HOBBS	FLIGHT		
<b>N814LT</b>	<b>1/7/2016</b>	<b>2586.9</b>	<b>2066.3</b>		

Checked oil level and ensured that the oil cap was secure. Oil level was at 6 quarts. Performed ground run for 30 minutes to heat up oil to the optimum operating temperature. Re-checked oil level and condition of oil. No milkiness or foaming of the oil was noted, still at 6 quarts on the dipstick. Secured cap and oil door.

This article was repaired in accordance with the current regulation of the Federal Aviation Administration. It was found to be airworthy with respect the work preformed and is approved for return to service. Pertinent details are on file at this repair station under work order: **MKC-16-008532**.

Inspectors Signature: *Chris Jackson* **Chris Jackson**  
 Signature TechnicAir - KMKC **A&P 495840541**

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N814LT (S/N 3568) January 11, 2016 Flight Hobbs: 2,072  
Troubleshoot pilot report of "engine oil leak", found #2 cylinder push rod tube seals leaking at crankcase. Replaced #2 cylinder push rod tube housing seals (630286, x2 and 534610, x2), washers (501868, x2 and 534609, x4), and valve cover gaskets (655705, x2) with new. Removed/cleaned/re-installed oil pressure sensor wiring sensor. Ran engine and performed an operational and leak check, no further defects noted. All work performed in accordance with current applicable manufacturer's recommendations. This ENGINE is approved for return to service regarding the work performed, this date and time. ----- end -----

*Roberto Ruiz*  
Roberto Ruiz, A&P 3647763

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N814LT (S/N 3568) January 20, 2016 Flight Hobbs: 2,073.5  
Replaced leaking air conditioner compressor drive with new (1133180-4) with new and performed a leak check of same, no defects noted. All work was performed in accordance with current applicable manufacturer's recommendations. This ENGINE is approved for return to service regarding the work performed, this date and time. ----- end -----

*Michael Quagliano*  
Michael Quagliano, A&P 3108957

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N814LT (S/N 3568) January 29, 2016 Flight Hobbs: 2,093  
Ran engine to normal operating temperature. Drained engine oil, removed oil filter and inspected for metal, no defects noted. Installed/torqued/safetied new oil filter (Tempest AA48-108). Serviced engine with 8 quarts Phillips 20w 50XC oil. Ran engine to normal operating temperature and performed a leak check of engine, leaks noted. All work performed in accordance with current applicable manufacturer's recommendations. This ENGINE is approved for return to service regarding the work performed, this date and time. ----- end -----

*Sean G. McFadden*  
Sean G. McFadden, A&P 3647763

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**1300 NEW HIGHWAY - FARMINGDALE, NEW YORK 11735**  
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N814LT (S/N 3568) February 22, 2016 Flight Hobbs: 2,113 EngTT: 105  
Performed pre inspection run up and checked systems for proper operation, all within normal limits. Engine compression readings as follows: #1 67/80, #2 70/80, #3 62/80, #4 66/80, #5 63/80, #6 68/80. Master orifice was 43. Removed/cleaned/gapped/tested/reinstalled all 12 spark plugs, no defects noted. Washed down engine and lubricated controls. Performed post inspection run up and leak check, no defects noted. All work was performed in accordance with current applicable manufacturer's recommendations. I certify that this ENGINE has been inspected in accordance with a 100 HOUR inspection as outlined in FAR 43 Appendix D, and was determined to be in an airworthy condition. This ENGINE is approved for return to service. ----- end -----

*Daniel Purta*  
Daniel Purta, A&P 3779662



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Farmingdale, NY 11735  
www.flynfi.com  
631-454-0626



Date

03/25/2016 N814LT Hobbs Meter: 2672.3 Tach/Flight Meter: 2,137.0  
Cirrus Aircraft SR22 Aircraft S/N: 3568 ACTT: 2,137.0  
Continental Engine IO-550-N68B Engine S/N: 1031162 Engine TT: 129

Maintenance Performed:

- > Ran engine to normal operating temperature, all systems functioning normally.
- > Drained engine oil and collected oil sample for Blackstone analysis. Serviced engine with 8 quarts Phillips 20w 50 XC oil.
- > Removed oil filter and inspected for metal contamination, no metal noted. Installed/torqued/safetied new oil filter (CH48-108-1).
- > Ran engine and performed leak check, no defects noted.

All work was performed in accordance with current applicable manufacturer's recommendations, and the rules and regulations of the Federal Aviation Administration.

This **ENGINE** is approved for return to service regarding the work performed and described above, this date and time.

Authorized Signature: Derek Hulst Derek Hulst, A&P 3743469



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04/14/2016 N814LT Hobbs Meter: 2,694.5 Tach/Flight Meter: 2,155.9  
Cirrus Design Aircraft SR 22 Aircraft S/N: 3568 ACTT: 2,155.9  
Continental Engine IO-550-N68B Engine S/N: 1031162 Engine TT: 148 Engine TTSMOH: N/A

Maintenance Performed:

- > Troubleshoot report of fluctuating percent power indication, found MAP sensor at fault. Replaced MAP sensor with new (12635-003) and performed an operational check of same, no defects noted.

All work was performed in accordance with current applicable manufacturer's recommendations, and the rules and regulations of the Federal Aviation Administration.

This **ENGINE** is approved for return to service regarding the work performed and described above, this date and time.

Authorized Signature: Derek Hulst Derek Hulst, A&P 3743469



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04/25/2016 N814LT Hobbs Meter: 2,708.2 Tach/Flight Meter: 2,166.2  
Cirrus Design Aircraft SR 22 Aircraft S/N: 3568 ACTT: 2,166.2  
Continental Engine IO-550-N68B Engine S/N: 1031162 Engine TT: 158 Engine TTSMOH: N/A

Maintenance Performed:

- > Troubleshoot report of "alt 1 inoperative", found alternator #1 field control module defective. Replaced alternator field control module with new (OFF - 18267-003 S/N 2834, ON - S/N 2855) and performed an operational check of same, no defects noted.

All work was performed in accordance with current applicable manufacturer's recommendations, and the rules and regulations of the Federal Aviation Administration.

This **ENGINE** is approved for return to service regarding the work performed and described above, this date and time.

Authorized Signature: Michael Quagliano Michael Quagliano, A&P 3108957



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631-454-0626



04/22/2016 N814LT Hobbs Meter: 2,702 Tach/Flight Meter: 2,162  
Cirrus Design Aircraft SR22 Aircraft S/N: 3568 ACTT: 2,162  
Continental Engine IO-550-N68B Engine S/N: 1031162 Engine TT: 154 TTSMOH: N/A

Maintenance Performed:

- > Performed a 50 hour inspection of engine per Cirrus SR22 AMM Inspection Checklist, Chaps 05-20 and 05-30.
- > Ran engine to normal operating temperature and checked systems, no defects noted.
- > Drained engine oil and collected oil sample for Av Lab analysis. Serviced engine with 8 quarts Phillips 20w 50 XC oil.
- > Removed oil filter and inspected for metal contamination, no metal noted. Installed/torqued/safetied new oil filter (AA48-108-2).
- > Removed/cleaned/gapped/tested/reinstalled all 8 spark plugs with new gaskets (M674, x8), no defects noted.
- > Washed down engine and lubricated engine controls.
- > Performed post inspection run up and leak check of engine, no defects noted.

All work was performed in accordance with current applicable manufacturer's recommendations, and the rules and regulations of the Federal Aviation Administration.

I certify that this **ENGINE** has been inspected in accordance with a \_\_\_\_\_ and was \_\_\_\_\_ to be in an airworthy



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07/06/2016 N814LT Hobbs Meter: 2,766 Tach/Flight Meter: 2,213  
 Cirrus Design Aircraft SR22 Aircraft S/N: 3568 ACTT: 2,213  
 Continental Engine IO-550-N68B Engine S/N: 1031162 Engine TT: 205 TTSMOH: N/A

**Maintenance Performed:**

- > Performed a 100 hour inspection of engine per Cirrus SR22 AMM Inspection Checklist, Chaps 05-20 and 05-30.
- > Ran engine to normal operating temperature and checked systems, no defects noted.
- > Performed engine compression leak down check, results were as follows:  
 #1 64/80, #2 66/80, #3 65/80, #4 62/80, #5 56/50, #6 58/80. Master Orifice reading was 45.
- > Drained engine oil and collected oil sample for Blackstone analysis. Serviced engine with 8 quarts Phillips 20w 50 oil.
- > Removed oil filter and inspected for metal contamination, no metal noted. Installed/torqued/safetied new oil filter (AA48-108-1).
- > Removed/cleaned/gapped/tested/reinstalled 11 spark plugs with new gaskets (M674, x11), replaced worn #2 cylinder Upper spark plug with new (URHB32S) with new.
- > Installed missing Cylinder #2 baffle springs with new (5101-001, x2).
- > Checked magneto to engine timing, adjusted as required.
- > Washed down engine and lubricated engine controls.
- > Performed post inspection run up and leak check of engine, no defects noted.

All work was performed in accordance with current applicable manufacturer's recommendations, and the rules and regulations of the Federal Aviation Administration.

I certify that this **ENGINE** has been inspected in accordance with a **100 HOUR INSPECTION** and was determined to be in an airworthy condition. This **ENGINE** is approved for return to service.

Authorized Signature: \_\_\_\_\_

*Roberto Ruiz*

Roberto Ruiz, A&P 3233677

Record

removal and ss Directives,



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 631-454-0626



08/05/2016 N814LT Hobbs Meter: 2,794 Tach/Flight Meter: 2,236  
 Cirrus Design Aircraft SR22 Aircraft S/N: 3568 ACTT: 2,236  
 Continental Engine IO-550-N68B Engine S/N: 1031162 Engine TT: 228 TTSMOH: N/A

**Maintenance Performed:**

- > Ran engine to normal operating temperature and checked systems, no defects noted.
- > Drained engine oil and serviced engine with 8 quarts Phillips 20w 50 XC oil.
- > Removed oil filter and inspected for metal contamination, no metal noted. Installed/torqued/safetied new oil filter (AA48-108-2).
- > Ran engine and performed a leak check of same, no defects noted.

All work was performed in accordance with current applicable manufacturer's recommendations, and the rules and regulations of the Federal Aviation Administration.

This **ENGINE** is approved for return to service regarding the work performed and described above, this date and time.

Authorized Signature: \_\_\_\_\_

*Derek Hulst*

Derek Hulst, A&P 3743469



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09/06/2016 N814LT Hobbs Meter: 2,837 Tach/Flight Meter: 2,270  
 Cirrus Design Aircraft SR22 Aircraft S/N: 3568 ACTT: 2,270  
 Continental Engine IO-550-N68B Engine S/N: 1031162 Engine TT: 262 TTSMOH: N/A

**Maintenance Performed:**

- > Performed a 50 hour inspection of engine per Cirrus SR22 AMM Inspection Checklist, Chaps 05-20 and 05-30.
- > Ran engine to normal operating temperature and checked systems, no defects noted.
- > Drained engine oil and collected oil sample for Blackstone analysis. Serviced engine with 8 quarts Phillips 20w 50 XC oil.
- > Removed oil filter and inspected for metal contamination, no metal noted. Installed/torqued/safetied new oil filter (AA48-108-2).
- > Removed/cleaned/gapped/tested/reinstalled all spark plugs with new gaskets (M674, x12), no defects noted.
- > Washed down engine and lubricated engine controls.
- > Performed post inspection run up and leak check of engine, no defects noted.

All work was performed in accordance with current applicable manufacturer's recommendations, and the rules and regulations of the Federal Aviation Administration.

I certify that this **ENGINE** has been inspected in accordance with a **50 HOUR INSPECTION** and was determined to be in an airworthy condition. This **ENGINE** is approved to service.

Authorized Signature: \_\_\_\_\_

*Michael*

A&P 3108957



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www.flynfi.com  
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rd  
and  
es,

09/19/2016  
Cirrus Design Aircraft  
Continental Engine

N814LT  
SR22  
IO-550-N68B

Hobbs Meter: 2,846  
Aircraft S/N: 3568  
Engine S/N: 1031162

Tach/Flight Meter: 2,277  
ACTT: 2,277  
Engine TT: 269

TTSMOH: N/A

**Maintenance Performed:**

- > AD 2016-16-12 does not apply to this engine, no affected ECI cylinders installed.

All work was performed in accordance with current applicable manufacturer's recommendations, and the rules and regulations of the Federal Aviation Administration.

This **ENGINE** is approved for return to service regarding the work performed and described above, this date and time.

Authorized Signature:  Sean G. McFadden, A&P 3647763

Carried



Nassau Flyers "A 3D Aviation Company"

1300 New Highway  
Farmingdale, NY 11735  
www.flynfi.com  
631-454-0626



10/10/2016  
Cirrus Design Aircraft  
Continental Engine

N814LT  
SR22  
IO-550-N68B

Hobbs Meter: 2,860  
Aircraft S/N: 3568  
Engine S/N: 1031162

Tach/Flight Meter: 2,288  
ACTT: 2,288  
Engine TT: 280

TTSMOH: N/A

**Maintenance Performed:**

- > Ran engine to normal operating temperature and checked systems, no defects noted.
- > Drained engine oil and serviced engine with 8 quarts Phillips 20w 50 XC AD oil.
- > Removed oil filter and inspected for metal contamination, no metal noted. Installed/torqued/safetied new oil filter (AA48-108-2).
- > Ran engine and performed a leak check of same, no defects noted.

All work was performed in accordance with current applicable manufacturer's recommendations, and the rules and regulations of the Federal Aviation Administration.

This **ENGINE** is approved for return to service regarding the work performed and described above, this date and time.

Authorized Signature:  Derek Hulst, A&P 3743469

ENGINE MODEL  
ENGINE S/N  
REG NO n814lt  
WORK ORDER 5464



Nassau Flyers  
1300 New Hwy  
Farmingdale NY 11735  
Phone 631-454-0626

DATE 12/6/2016  
A/C TSN 2309  
ENG TT 301  
TSMOH  
TACH 2309

**Engine Entries**

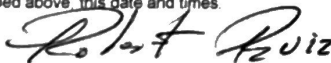
- \*Performed a 100 hour inspection of engine per Cirrus AMM and inspection checklists, Chaps 05-02 and 05-30
- \*Ran engine to normal operating temperature and checked systems for normal operation, no defects noted.
- \*Performed engine compression leak down check, results were as follow: #1 61 #2 64 #3 66 #4 66 #5 60 #6 58
- \*Master Orifice reading was 44
- \*Drained engine oil and collected oil sample for Blackstone oil analysis Serviced engine with 8 quarts Phillips 20W50 XC oil
- \*Removed oil filter and inspected for metal contamination, no metal noted
- \*Installed/torqued/safetied new oil filter()
- \*Removed/cleaned/gapped/tested reinstalled all spark plugs with new gaskets
- \*C/W ICA Tanis Engine Heater, no defects noted
- \*Washed down engine and lubricated controls
- \*Performed post inspection run up and leak check, no defects noted

**Maintenance Release**

This aircraft, engine, propeller or component(s) on n814lt were repaired and inspected in accordance with current Federal Aviation Regulations and manufacturers recommendations and was found to be in airworthy condition. This aircraft, engine, propeller or component(s) is approved for return to service regarding the work performed and described above, this date and times.

DATE: 12/6/2016

SIGNED:



Work Order: 5464

Roberto Ruiz, A&P 3233677

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/NOV  
 18. Date (month/day)  
 DMIR#C  
 16. Approval/Initials

Total Time  
 Hours Min  
 Time Since Last Overhaul  
 Hours Min

# Engine Service and Maintenance Record

Record maintenance actions including engine part removal and installation and compliance with inspections, Airworthiness Directives,

550-N68B  
 1162  
 CT  
 08262-03-2017

**US Flight Aircraft Maintenance**  
 1 Wallingford Rd  
 Hangar 5  
 Danbury, CT 06810 USA  
 Phone: 914-288-8088

DATE 13 April, 2017  
 A/C TSN: 2720 1  
 ENG TT 328 8  
 FLIGHTTIME 2336 8

**Entries**

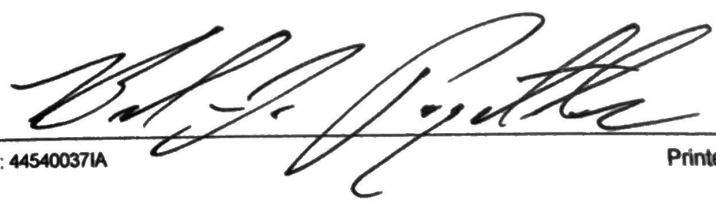
- 13 AIR CONDITIONING DRIVE IS LEAKING OIL... Removed compressor & drive Assy.  
 Inspected Drive shaft for defects, Checks airworthy.  
 Removed leaking seal & Installed new seal P/N SA25102 in compressor drive pad.  
 Installed Compressor & drive assy IAW Cirrus SR-22 MM CH 21-50
- 17 RIGHT MUFFLER HEAT EXCHANGER FLAME CONE DISTORTED... Removed Heat Exchanger from Collector.  
 Disassemble heat exchanger from Tailpipe.  
 Assemble new heat exchanger PN#A21892-001 to Tail Pipe.  
 Install into collector assy and safety with cotter pins per Cirrus MM CH-78.
- 18 LEFT TAILPIPE OUTBOARD SPRING, ATTACH EAR & BRACKET SEVERELY WORN... Removed left tailpipe & worn springs.  
 Remove worn Bracket PN#20155-010 & Install new bracket.  
 Weld attach ear and Drill hole.  
 Install tailpipe with new springs per Cirrus MM CH-78.
- 19 INTAKE PLENUM HANGING LOW ALLOWING THROTTLE CABLE BRACKET CHAFING INTO CRANKCASE... Loosen all intake pipe clamps.  
 Adjust body and Install rubber chaffe to affected areas.  
 Assemble induction system, fuel primer lines and secure induction clamps.
- 20 FUEL INJECTOR NOZZLES SERVICE DUE EA 300 HRS OR ANNUALLY PER CIRRUS SR-22 AMM 5-20 CHECKLIST AND TCM SID 05-7 ICA. AND GAMI IP-2001-02.... Cleaned fuel injectors using ultra sonic method. Secured and Torqued.  
 Performed leak check; found none.  
 All work performed IAW TCM SID 05-7. and GAMI IP-2001-02
- 41 ENGINE CRANKSHAFT HAS CORROSION ON CIRCUMFERENCE AFT OF PROPELLER FLANGE.  
 REQUIRES INSPECTION PER TELEDYNE CONTINENTAL SERVICE BULLETIN 09-14... Removed propeller S/N FP7368B. Cleaned crankshaft and inspected. No pitting found. Treated crankshaft with POR-15. Reinstalled propeller S/N FP7368B with new O ring P/N C3317-228 I/A/W SR22 MM 61-10.
- 42 RIGHT ENGINE RIGHT MAGNETO FIRING AT 19.8 DEGREES BTDC, LEFT MAGNETO FIRING AT 19.7 DEGREES BTDC. SPEC IS 22 DEGREES BTDC.... Set both magnetos to fire at 22 degrees BTDC.
- 42 LOWER HALF OF AFT OIL COOLER BRACE MISSING.... Removed Oil Cooler PN#654585, SN#H15-12463-319 from engine.  
 Installed new oil cooler P/N 654585, S/N J06-4772-762 IAW Cirrus SR-22 MM CH-79-20 (B).

Technicians Who Worked On The Items Listed Above:  
 Bernard Paquette, Mark Loret, SCOTT SPLETZER

The work performed has been approved for return to service.

DATE: 13 April, 2017

SIGNED:



Bernard Paquette, A&P: 44540037IA

Work Order: 08262-03

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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					
Carried forward →					

ENGINE MODEL: IO-550-N68B  
ENGINE S/N: 1031162  
REG. NO: N814LT  
WORK ORDER: 08262-03-2017

**US Flight Aircraft Maintenance**

1 Wallingford Rd  
Hangar 5  
Danbury, CT 06810 USA  
Phone: 914-288-8088

DATE: 13 April, 2017  
A/C TSN: 2720.1  
ENG TT: 328.8  
FLIGHTTIME: 2336.8

**Engine Entries**

- 2 C/W 100HR/ANNUAL INSPECTION OF ENGINE... Engine Inspected using Cirrus SR-22 Aircraft 100hr/Annual maintenance manual inspection checklist, Performed satisfactory pre-inspection run up IAW CDC SR-22 AMM 5-30.
- Performed cylinder differential press test; results as follows, # 1)76, #2)77, # 3)77, #4)75, #5) 77, #6) 77.
- Drained engine oil, removed and cut open filter. No abnormal debris noted. Secured new AA48109 filter.
- Serviced engine with 8 Qts Phillips 20W-50W X/C oil. Add 1 pint Camguard.
- Cleaned, Perform Resistance ck, rotated and secured spark plugs with new gaskets
- AD's & MSB's ck thru 4-15-2017
- Performed satisfactory ground functional checks.
- I certify this ENGINE has been inspected in accordance with an ANNUAL inspection checklist CDC SR-22AMM 5-20, and IAW TCM FORM NO. X30634A ch5-8 and has been determined to be in airworthy condition.

I certify that this engine has been approved for return to service.

DATE: 13 April, 2017

SIGNED:

Bernard Paquette, IA: 445400371A

Work Order: 08262-03-2017

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ENGINE MODEL: IO-550-N68B  
ENGINE S/N: 1031162  
REG. NO: N814LT  
WORK ORDER: 08396-10-2017

**US Flight Aircraft Maintenance**

1 Wallingford Rd  
Hangar 5  
Danbury, CT 06810 USA  
Phone: 914-288-8088

DATE: 12 October, 2017  
A/C TSN: 3046.6  
ENG TT: 419.8  
FLIGHTTIME: 2427.8

**Engine Entries**

- 1 ENGINE STARTER ADAPTER SLIPPING... Gained access & remove starter.
- Suspect starter due a grinding noise & grease coming from drive.
- Replace starter, found starter adapter slipping.
- Remove starter adapter & sky tech starter from engine PN#642083A3 & CST3 SN#4C3-081525.
- Install CMI Rebuilt Starter adapter PN#R-642083A12 with overhauled Hartzell starter PN#646275-1 SN#H-R091526.
- Start engine, operational checks airworthy.

Technicians Who Worked On The Items Listed Above:  
Bernard Paquette

The work performed has been approved for return to service.

DATE: 12 October, 2017

SIGNED:

Bernard Paquette, A&P: 445400371A

Work Order: 08396-10-2017

Printed by EBis 3 (datcomedia.com)

12-14-17	3089.1	460	changed oil, 8 Qts 15W-50 aerushell, leak checked, good, Samuel Barth Commercial P. 3717055

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-550-M68B  
ENGINE S/N 1031162  
REG NO N814LT  
WORK ORDER  
5230-04-2018



**North American Flight Services**  
Repair Station No N0MR725J  
405 Greenfield Avenue  
Ballston Spa, NY 12020  
Phone: 518-885-5470

DATE 03 May 2018  
A/C TSN 3135 4  
ENG TT 1127 9  
TSMOH  
TACH 2494 7

**Engine Entries**

ACCOMPLISHED ENGINE ANNUAL INSPECTION  
DRAINED OIL REMOVED OIL FILTER AND CUT OPEN, NO DEBRIS NOTED INSTALLED A NEW FILTER  
P/N CH 48108-1 AND FILLED WITH 8 QTS OF AEROSHELL 15W-50 OIL CLEANED AND GAPPED  
PLUGS COMPRESSIONS ARE CYL #1 74/80, CYL#2 73/80, CYL#3 73/80, CYL#4 73/80, CYL#5 72/80,  
CYL#6 71/80 ENGINE OPS CHECK AND LEAK CHECKS GOOD.  
ACCOMPLISHED AD SEARCH THRU 5/2/2018.

I CERTIFY THIS ENGINE HAS BEEN INSPECTED IAW AN ANNUAL INSPECTION AND HAS BEEN DETERMINED TO BE  
IN AIRWORTHY CONDITION AND IS APPROVED FOR RETURN TO SERVICE

DATE 03 May, 2018

SIGNED

Brian Strange  
Certified Repair Station No N0MR725J



Work Order 5230-04-2018

Printed by EBis 3 (datcomedia.com)

7-9-18	3166 hrs	539.2 hrs	Changed Oil, filter, replaced w/ 15W50 oil, tempest oil filter, kate checked all OK. Samuel Barth AP3717055
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9/9/2018	IO-550-M68B S/N 1031162
<p>High EGT on Cyl #5, removed cowling, removed fuel manifold valve p/n R-646433-5A5 serial C15HA103R and replaced with p/n 646433-5A5 serial C02KA054 and replaced cyl #1 intake tube p/n 646198 from continental motors due to hairline crack on flange. Reassembled everything and ops check fine, no leaks and even EGT's on all cylinders when leaning in cruise.</p>	
<p>TTAF: 1234.0 Tach: 1106.4 Samuel Barth A&amp;P 3717055AP ProAir, LLC, Latham NY 12110</p>	

10-15-18	3219.1 / 2596.8		Changed oil & filter 7415W50 Sam Barth 3717055 AP
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Date	Total Time		Time Since Last Overhaul		<b>Engine Service and Maintenance Record</b>
	Hours	Min	Hours	Min	

**Engine Service and Maintenance Record**

Record maintenance actions including engine part removal and installation and compliance with inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins

Carried forward →

HERITAGE AVIATION



Engine Log  
 NB14LT - Cirrus SR22 S/N: 3568  
 Flight Hobbs: 2606.3 Hobbs: 3285.4 Engine TT: 598.3  
 Engine IO-550-N S/N 1031162

Complied with the following items:

- Perform Pre-annual engine runs and operational checks.
- Performed engine Compression check: 1) 50/80, 2) 62/80, 3) 44/80, 4) 56/80, 5) 44/80, 6) 58/80. Master "O" 44/80.
- Drained engine oil and sent a sample to Blackstone Labs, removed and inspected filter for metal (routine - none noted).
- Installed new oil filter P/N CH48108-1 torque and safety in position.
- Service engine with 7 Qts. of Aershell 15W-50 I/A/W Cirrus SR22 MM 12-10.
- Cleaned fuel injectors and fuel screens.
- Cleaned, inspected, gapped, and rotated spark plugs.
- Installed Rebuilt magneto on RH side P/N BL-500556-1 S/N D19DA099R by TCM WO# 696720 dated 07/MAY/2019 IAW SR22 AMM Ch. 74-10. (Next due for inspection 3106.3 FLT hours)
- Installed Rebuilt magneto on LH side P/N BL-500556-1 S/N D19DA090R by TCM WO# 696720 dated 07/MAY/2019 IAW SR22 AMM Ch. 74-10. (Next due for inspection 3106.3 FLT hours)
- R/R all 12 rocker cover gaskets with new P/N 658735 IAW TCM IO-550-N Standard Practice Manual M-O.
- R/R #1 lower spark plug with new P/N URHB325 IAW SR22 AMM Ch. 74-20.
- C/W the Tanis engine pre-heater ICA, no defects noted.
- Perform ground operational checks and runs, no leaks or defects noted.
- Check AD status to ATP Content Revision 06/13/2019.

I certify that this Engine has been inspected IAW an "ANNUAL" inspection and was determined to be in Airworthy condition. "The above items were complied with per the "Manufactures Maintenance Procedures". This aircraft/engine is "Approved for Return to Service" for work performed.

Date: 6/17/2019 Sign: Josh Rock for CRS-IGXR989E WOSH22167

HERITAGE AVIATION



ENGINE LOG ENTRY  
 NB14LT - Cirrus SR22 S/N 3568  
 TCM IO-550-N68B S/N 1031162  
 Flight Hours: 2662.1 Hobbs: 3357.1

- Drained old oil, R/R filter with new P/N CH48108 and safetied. Inspected old filter for metal-routine, none noted. Added 7 QTS Aeroshell 15W-50, performed ground runs, no leaks noted. Ref. SR22 AMM Ch. 12-10.
- Performed compression check (cold): 1) 62/80, 2) 74/80, 3) 63/80, 4) 64/80, 5) 74/80, 6) 65/80.
- Performed borescope inspection per TCM IO-550-N M-O, slight trace of oil in cylinders noted.
- Cleaned, inspected, tested and gapped spark plugs.
- R/R 3 spark plugs with new P/N UHRB325 IAW SR22 AMM Ch. 74-20.
- R/R oil fill cap seal with new P/N 642892, per standard practice.

All items were complied with per the manufacture's maintenance procedures. This aircraft/engine was determined to be in airworthy condition and is approved for return to service for work performed.

Date: 10/31/19 Sign: Josh Rock For CRS#IGXR989E WOSH22550



Hildt Aviation Bennington, LLC · 1563 Walloomsac Rd · Bennington, VT 05201 · 866-649-5296

**N814LT**

Flight hobbs: 2713.6

**TCM, IO-550-N68B, S/N: 1031162**

TSN: 3392.7

TSOH: 705.6

**July 2, 2020**

1. PERFORMED A 100HR/ANNUAL INSPECTION I/A/W FAR 43 "APPENDIX D" & THE CIR-RUS SR22 100HR INSPECTION CHECKLIST. PERFORMED COMPRESSION CHECK, MASTER ORIFICE 43; RESULTS AS FOLLOWS: 1)70/80 2)58/80 3)70/80 4)74/80 5)70/80 6)68/80. CUT OPEN AND INSPECTED FILTER WITH NO ABNORMALITIES NOTED. OWNER/OPERATOR TO REPLACE OIL FILTER ELEMENT. REVIEWED AD'S THRU BI-WEEKLY 2020-13. SEE LISTING FOR COMPLIANCE. GROUND RUN OPS AND LEAK CHECK SATISFACTORY. I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED I/A/W AN ANNUAL INSPECTION AND A LIST OF UN-AIRWORTHY ITEMS HAVE BEEN GIVEN TO THE OWNER/OPERATOR INCLUDED IN THIS WORK ORDER.

JAMIE HILDENBRANDT A&P IA 3039160

Entry: 4 of 4



March 4, 2020

N814LT  
Warbird Factory  
HOBBS 3395.7  
FLIGHT 2961.5  
Engine S/N 1031162

Removed starter due to no start condition, installed new starter P/N C24ST5  
S/N H-U013472 operational check good, no further defects noted at this time. All work  
performed in accordance with cirrus SR 22 maintenance manual 80-10.

Timothy Freemantle

A handwritten signature in black ink, appearing to read "Timothy Freemantle", written over a horizontal line.

A+P 3829905

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743 Albany Shaker /  
Latham, NY  
prescottholding/  
(518) 633-

# Engine Service and Maintenance Record

Record maintenance actions including engine part removal and installation and compliance with inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins

Carried forward →

8-3-2020 2728.1 220.1

#1 ALTERNATOR NOT PRODUCING PWR, TRUBLE SHOT TO FAULTY ALT. Removed P/N ES-10024 S/N H-P060963 and Installed Serviceable P/N ES-10024 S/N H-U 040810. work performed I.A.W Cirrus SR22 Amin 24-30 Operating and Leak Checks SAT.  
 Timothy Freemantle  
 ATP 3820905



743 ALBANY SHAKER ROAD  
 LATHAM, NEW YORK 12210  
 (518) 633-1155

## AIRCRAFT MAINTENANCE LOG

MAKE	TCM	DATE	11/19/2020
MODEL	IO-550-N68B	AIRCRAFT TOTAL TIME	3495.6
S/N	1031162	A/C TSN	
REG NO.	N814LT	TACH	2766.6
WORK ORDER		TSO	758.6

### AIRFRAME ENTRIES

pilot reports of high oil consumption, per owner request removed and replaced cyl. #1) #2) #3) #4) #5) and #6) per Continental maintenance and overhaul manual M-16 chapter 10-8.6. serviced with 7 quarts of phillips type M 20W-50 oil. performed all required operational checks listed in above manual, all required leak checks good, no leaks noted at this time. 25 hour engine break in period required, break in is completed at flight hobbs 2791.6

### MAINTENANCE RELEASE

The engine and/or components listed above have repaired and inspected in accordance with current FAA regulations and is approved for return to service.

DATE 11/19/2020 SIGNED   
 NAME Timothy Freemantle CERT# A&P 3820905

Record maintenance actions including engine part removal and installation and compliance with inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins

Carried forward →



743 ALBANY SHAKER ROAD  
LATHAM, NEW YORK 12210  
(518) 633-1155

# AIRCRAFT MAINTENANCE LOG

MAKE	TCM
MODEL	IO-550-N68B
S/N	1031162
REG NO.	N814LT
WORK ORDER	814LT-0321-02

DATE	3/5/2021
AIRCRAFT TOTAL TIME	3513.5
A/C TSN	3513.5
TACH	2780.3
T80	772.3

## ENGINE ENTRIES

ALT #2 INOP IN FLIGHT, REMOVED AND REPLACED ALT #2 P/N 657199 S/N H-0090172. INSTALLED ALT #2 P/N ES-7024-14 S/N H-U020393. IAW SR22 MM 24-30 REPLACED ALT #2 DRIVE BELT BY REMOVING PROP. REMOVING AND REPLACING BELT, AND REINSTALLING PROP IAW SR22MM 61-10 ALL OPS AND LEAK CHECKS SATISFACTORY.

## MAINTENANCE RELEASE

The aircraft and/or components listed above have repaired and inspected in accordance with current FAA regulations and is approved for return to service.

DATE 03-05-2021

SIGNED   
NAME Timothy Freemantle

CERT# A&P 3829905



743 ALBANY SHAKER ROAD  
LATHAM, NEW YORK 12210  
(518) 633-1155

# AIRCRAFT MAINTENANCE LOG

MAKE	TCM
MODEL	IO-550-N68B
S/N	1031162
REG NO.	N814LT
WORK ORDER	814LT-0321-03

DATE	03/22/2021
AIRCRAFT TOTAL TIME	
A/C TSN	
TACH	2788.9
	780.9

## ENGINE ENTRIES

DRAINED OIL, REMOVED AND INSPECTED OIL FILTER. INSTALLED NEW OIL FILTER P/NA48108-2 AND SERVICED WITH 8 QTS OF PHILLIPS 20W-50 OIL LEAK CHECK GOOD

## MAINTENANCE RELEASE

The aircraft and/or components listed above have repaired and inspected in accordance with current FAA regulations and is approved for return to service.

DATE 03/22/2021

SIGNED   
NAME TIMOTHY FREEMANTLE

CERT# A&P 3829905



Warbird Factory 743 ALBANY SHAKER ROAD · Latham, NY 12110 · 5186321155

**N814LT**  
TACH: 2810.4

**CONT MOTOR, IO-550-N, S/N: ENGINE SN TBD**

**October 13, 2021**

1. DRAINED OIL AND REMOVED AND CUT OPEN OIL FLITER, NO ABNORMALITIES NOTED. INSTALLED NEW FILTER AND SERVICED OIL. Installed P/N AA48108-2 - OIL FILTER, Installed (7) P/N 20W50 - OIL.
2. REMOVED AND REPLACED AIR FILTER ELEMENT Installed P/N BA-24 - AIR FILTER.
3. REMOVED AND REPLACED CONTROL CABLE TO ARM BOLT WITH NEW Installed P/N AN3-7 - BOLT.
4. R+R CONNECTOR, OPS CHECK AND ENGINE RUN UP SATISFACTORY WITH NO DEFECTS NOTED Installed P/N CT6U12S-3SC - CONNECTOR.
5. REMOVED AND REPLACED INTAKE SCAT TUBE Installed P/N 50206-250U - HOSE.
6. STOP DRILLED ALL CRACKS IN FWD BAFFLE.
7. STOP DRILLED TWO EACH CRACKS IN RH SHELF BAFFLE.

With respect to the work performed, this engine is approved for return to service. Details of work performed are on file with Warbird Factory under work order: WO\_4.

Tim Freemantle A&P 3829905



HILDT AVIATION BENNINGTON, LLC 1563 Walloomsac Rd BENNINGTON Vermont 05201 · 5184709779

**N814LT**  
FLIGHT HOBBS:  
2810.4

**TCM, IO-550-N68B, S/N: 1031162**  
SINCE NEW: 3489.5 SINCE OVERHAUL:  
802.4

**August 10, 2021**

1. PERFORMED A 100HR/ANNUAL INSPECTION I/A/W FAR 43 "APPENDIX D" & THE CIRRUS SR22 100HR INSPECTION CHECKLIST AS A GUIDE. PERFORMED COMPRESSION CHECK, MASTER ORIFICE 43; RESULTS AS FOLLOWS: 1)70/80 2)72/80 3)78/80 4)80/80 5)70/80 6)72/80. CUT OPEN AND INSPECTED FILTER WITH NO ABNORMALITIES NOTED. OWNER/OPERATOR TO REPLACE OIL FILTER ELEMENT. REVIEWED AD'S THRU BI-WEEKLY 2021-15. SEE LISTING FOR COMPLIANCE. GROUND RUN OPS AND LEAK CHECK SATISFACTORY. I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED I/A/W AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION.

With respect to the work performed, the engine and/or component(s) was repaired and inspected in accordance with current FARs rules of the Federal Aviation Regulations and is approved for return to service. Details of work performed are on file with HILDT AVIATION BENNINGTON, LLC under work order: WO\_271.

JAMIE HILDENBRANDT A&P IA 3039160

# Engine Service and Maintenance Record

Date	Total Time		Time Since Last Overhaul		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	

Engine page 1 of 1

wo WO\_33



Warbird Factory 743 ALBANY SHAKER ROAD Latham NY 12110 5186321155

**N814LT**  
TACH: 2857.8

**CONT MOTOR, IO-550-N, S/N: 1031162**

**February 25, 2022**

1. DRAINED OIL AND REMOVED AND CUT OPEN OIL FILTER. NO ABNORMALITIES NOTED. INSTALLED NEW FILTER AND SERVICED OIL. Installed (7 QT) P/N 20W50 - OIL. Installed P/N AA48108-2 - OIL FILTER.
2. ADJUSTED OIL PRESSURE 1/8 TURN COUNTERCLOCKWISE. OPERATIONAL CHECKS SATISFACTORY.

With respect to the work performed, this engine is approved for return to service. Details of work performed are on file with Warbird Factory under work order: WO\_33.

David Cocca A&P 405580

wo WO\_37



Warbird Factory 743 ALBANY SHAKER ROAD Latham NY 12110 5186321155

**N814LT**  
TACH: 2857.8

**CONT MOTOR, IO-550-N, S/N: 1031162**

**March 21, 2022**

RESECURED BOLTS ON ALTERNATOR FIELD COIL BRACKET. OPS CHECK SATISFACTORY. NO DEFECTS NOTED.

With respect to the work performed, this engine is approved for return to service. Details of work performed are on file with Warbird Factory under work order: WO\_37.

Andres Morales A&P 3859420



Warbird Factory - 743 ALBANY SHAKER ROAD Latham, NY 12110 5186331155

**N814LT**  
TACH: 2875.7

**CONT MOTOR, IO-550-N, S/N: 1031162**  
SMOH. 867.7

**August 31, 2022**

1. ACCOMPLISHED ENGINE ANNUAL INSPECTION IAW CIRRUS SR22 ANNUAL INSPECTION CHECK-LIST.
2. ADJUSTED IDLE SET SCREW 1/4 CCW AND RAN ENGINE. OPERATIONAL CHECK SATISFACTORY.
3. ADJUSTED MIXTURE 1/4 CCW AND RAN ENGINE. OPERATIONAL CHECK SATISFACTORY.
4. REPLACED ALL SPARK PLUGS AND REPLACED IRW SR22 AMM 74-20 OPERATIONAL CHECKS SATISFACTORY Installed (12) P/N RHB32E - SPARK PLUG.
5. REMOVED AND REPLACED BOTH L/H AND R/H MAGNETO IGNITION HARNESS I/R/W CONTINENTAL AIRCRAFT ENGINE IO-550-N MAINTENANCE AND OVERHAUL MANUAL OPERATIONAL CHECK SATISFACTORY WITH NO DEFECTS NOTED AT THIS TIME. Installed P/N 10-423674-19 - IGNITION HARNESS.
6. REMOVED AND REPLACED BRACKET AIR FILTER WITH NEW, REPLACED ONE OF FILTER MOUNTING NUTS Installed P/N BA-24 - AIR FILTER.
7. REPLACED WITH NEW GOVERNOR.
8. REMOVED AND REPLACED PROPELLER GOVERNOR IRW CIRRUS SR22 AMM 61-20 OPERATIONAL AND LEAK CHECKS SATISFACTORY Installed P/N D-20309-22 - PROP GOVERNOR S/N: 220455.



Warbird Factory - 743 ALBANY SHAKER ROAD - Latham, NY 12110 5186331155

9. REMOVED ALTERNATOR #2 AND COMPLETED BRUSH INSPECTION AND REINSTALLED IN ORIGINAL POSITION I/R/W HARTZELL SIL-A-137, AND SR22 AMM 24-30 NO DEFECTS NOTED AT THIS TIME. NEXT DUE FLIGHT TIME 3375 OR 07/2024 WHICH EVER OCCURS FIRST.
10. REMOVED #1 ALTERNATOR AND PERFORMED ALTERNATOR BRUSH INSPECTION, FOUND BRUSH LEADS UNSERVICABLE, REPLACED BRUSHES AND RE-INSTALLED ALTERNATOR I/R/W SR22 AMM 24-30 AND TELEDYNE CONTINENTAL AIRCRAFT ENGINES SB 11-2 OPERATIONAL AND LEAK CHECKS SATISFACTORY. NEXT DUE FLIGHT TIME 3375 OR 07/2024 WHICH EVER OCCURS FIRST.
11. REPLACED VALVE COVER GASKETS ON CYLINDERS 2, 4, 6, PERFORMED RUNUP AND LEAK CHECK WITH NO DEFECTS NOTED.

I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE AN ANNUAL INSPECTION AND HAS BEEN DETERMINED TO BE IN AN AIRWORTHY CONDITION AND IS APPROVED FOR RETURN TO SERVICE. Details of work performed are on file with Warbird Factory under work order: WO\_59.

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

Carried forward →

wo. WO\_82 Engine page 1 of 1



Warbird Factory 743 ALBANY SHAKER ROAD Latham, NY 12110 - 5186331155

**N814LT** **CONT MOTOR, IO-550-N, S/N: 1031162** **October 18, 2022**  
TACH: 2888.0 SMOH: 880.0

ADJUSTED PROP GOVERNOR HIGH RPM STOP SCREW 2 TURNS CCW AND OPS CHECKED SATISFACTORY. FOUND RPM TO BE WITHIN LIMITS.

With respect to the work performed, this engine is approved for return to service. Details of work performed are on file with Warbird Factory under work order: WO\_82.

Tim Freemantle A&P 3829905 *[Signature]*

wo. WO\_123 Engine page 1 of 1



Warbird Factory - 743 ALBANY SHAKER ROAD - Latham, NY 12110 - 5186331155

**N814LT** **CONT MOTOR, IO-550-N, S/N: 1031162** **April 28, 2023**  
HOBBS: 3735.8 TACH: 2945.7 SMOH: 937.7

DRAINED OIL AND REMOVED AND CUT OPEN OIL FLITER, NO ABNORMALITIES NOTED. INSTALLED NEW OIL FILTER AND SERVICED WITH 7 QTS OF PHILLIPS 20W50 OIL. ALL OPERATIONAL AND LEAK CHECKS SATISFACTORY WITH NO DEFECTS NOTED. Installed P/N AA48108-2 - OIL FILTER.

With respect to the work performed, this engine is approved for return to service. Details of work performed are on file with Warbird Factory under work order: WO\_123.

Tim Freemantle A&P 3829905 *[Signature]*

wo. WO\_124 Engine page 1 of 1



Warbird Factory : 743 ALBANY SHAKER ROAD Latham, NY 12110 - 5186331155

**N814LT** **CONT MOTOR, IO-550-N, S/N: 1031162** **May 02, 2023**  
HOBBS: 3735.8 TACH: 2945.7 SMOH: 937.7

1. FOUND NICK IN OIL TEMP WIRE AT CONNECTOR P246. REPAIRED WIRE IRW SR-22 WIRING MANUAL 20-10..
2. REMOVED AND REPLACED CYL#5 ROCKER COVER GASKETS, AND PERFORMED ENGINE RUNUP. LEAK CHECK SATISFACTORY. Installed (2) P/N 668893 - GASKET.

With respect to the work performed, this engine is approved for return to service. Details of work performed are on file with Warbird Factory under work order: WO\_124.

Tim Freemantle A&P 3829905 *[Signature]*

wo: WO\_142

Engine · page 1 of 1

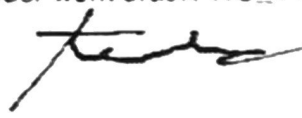


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<b>N814LT</b>	<b>CONT MOTOR, IO-550-N, S/N: 1031162</b>	<b>July 27, 2023</b>
HOBBS: 3805.6	TACH: 2998.6	SMOH: 990.6

1. DRAINED OIL AND REMOVED AND CUT OPEN OIL FLITER. NO ABNORMALITIES NOTED. INSTALLED NEW FILTER AND SERVICED OIL WITH 7 QTS OF PHILLIPS XC 20W50 PERFORMED ENGINE RUNUP AND LEAK CHECK WITH NO DEFECTS NOTED. Installed (7 QT) P/N 20W50 - OIL, Installed P/N AA48108-2 - OIL FILTER.
2. REMOVED AND REPLACED CYL #5 EXHAUST ROCKER COVER GASKET PERFORMED ENGINE RUN UP AND LEAK CHECK WIT NO DEFECTS NOTED. Installed P/N 668893 - GASKET.

With respect to the work performed, this engine is approved for return to service. Details of work performed are on file with Warbird Factory under work order: WO\_142.

Tim Freemantle A&P 3829905 

wo: WO\_205

Engine · page 1 of 1

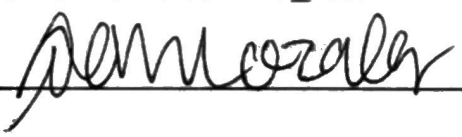


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<b>N814LT</b>	<b>CONT MOTOR, IO-550-N, S/N: 1031162</b>	<b>April 19, 2024</b>
HOBBS: 3826.8	TACH: 3065.0	SMOH: 1057.0

DRAINED OIL, REMOVED AND CUT OPEN OIL FLITER. NO ABNORMALITIES NOTED. INSTALLED NEW FILTER AND SERVICED OIL WITH 7 QTS OF PHILLIPS XC 20W50 PERFORMED ENGINE RUNUP AND LEAK CHECK WITH NO DEFECTS NOTED. Installed P/N AA48108-2 - OIL FILTER, Installed (7) P/N 20W50 - OIL.

With respect to the work performed, this engine is approved for return to service. Details of work performed are on file with Warbird Factory under work order: WO\_205.

Andres Morales A&P 3859420 

# Engine Service and Maintenance Record

Date	Total Time		Time Since Last Overhaul		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 page 1 of 2

wo: WO\_153



Warbird Factory · 743 ALBANY SHAKER ROAD · Latham NY 12110 · 5186331155

**N814LT**  
HOBBBS: 3826.8

**CONT MOTOR, IO-550-N, S/N: 1031162**  
TACH: 3015.0 SMOH: 1007.0

September 15, 2023

REMOVED INSPECTED & CLEANED INJECTOR NOZZLES. NO LEAKS NOTED AT THIS TIME. DRAINED OIL. REMOVED & INSPECTED OIL FILTER (NO DEFECTS NOTED). REPLACED OIL FILTER WITH NEW PN: AA48108-2 & SERVICED OIL TANK WITH 7 QUARTS OF 20W50. NO LEAKS NOTED AT THIS TIME. ALTERNATOR #1 & #2 BRUSH INSPECTION DUE AT 3375 FLIGHT TIME OR 07/2024 WHICHEVER OCCURS FIRST. REMOVED & REPLACED AIR FILTER WITH PN:BA-24 AIR FILTER. REPLACED PUSHROD TUBE PACKING (EXHAUST) ON #1 CYLINDER WITH NEW PACKING PN 534610. REMOVED & REPLACED ROCKER COVER GASKET WITH NEW GASKET PN 668893 ON CYLINDERS 3 & 6. REMOVED & REPLACED CABIN HEAT SCAT TUBE & AIR-FILTER INTAKE SCAT TUBE WITH NEW 2.5" SCAT TUBING & INSTALLED NEW TCM CLAMPS PN: AN737TW82. PERFORMED COMPRESSION CHECK (HOT). COMPRESSIONS AS FOLLOWS: #1-72, #2-68, #3-76, #4-69, #5-72, #6-74. REMOVED, CLEANED, GAPPED SPARK PLUGS TO .018", ROTATED AND INSTALLED, TORQUED TO 30FT-LBS IRW SR22 AMM 74-20. ENGINE RUN. SYSTEMS CHECK & LEAK CHECK PERFORMED NO DEFECTS NOTED AT THIS TIME. COMPLETED ENGINE ANNUAL INSPECTION IRW CIRRUS SR22 ANNUAL INSPECTION CHECKLIST AND IN IAW FAR 43 APX (D). Installed P/N AA48108-2 - OIL FILTER. Installed P/N 15373-005 - TKS BRACKET. Installed (12) P/N M674 - GASKET. Installed (10 ft) P/N 05-29910 - SCAT TUBE. Installed (4) P/N AN737TW82 - CLAMP. Installed (7) P/N 20W50 - OIL. Installed P/N BA-24 - AIR FILTER. Installed P/N 534610 - IO-550 PUSHROD TUBE PACKING. Installed (2) P/N 668893 - GASKET.

wo: WO\_153

Engine page 2 of 2



Warbird Factory · 743 ALBANY SHAKER ROAD · Latham, NY 12110 · 5186331155

With respect to the work performed, this engine is approved for return to service. Details of work performed are on file with Warbird Factory under work order: WO\_153.

Andres Morales IA 3859420

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

Carried forward →

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Warbird Factory 743 ALBANY SHAKER ROAD · Latham, NY 12110 · 5186331155

**N814LT** **CONT MOTOR, IO-550-N, S/N: 1031162** **October 01, 2024**  
 HOBBS: 3940.0 TACH: 3102.0 SMOH: 1094.0

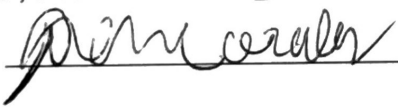
1. REMOVED COWLINGS & INSPECTED ENGINE FOR LEAKS. SECURITY OF FLUID LINES & SECURED ELECTRICAL CONNECTIONS. DRAINED OIL. CUT & INSPECTED FILTER ELEMENT WITH NO DEFECTS NOTED AT THIS TIME. COLLECTED OIL SAMPLE AT CUSTOMERS REQUEST. SERVICED OIL USING 8 QUARTS OF PHILLIPS 20W50 & REPLACED OIL FILTER. Installed P/N AA48108-2 - OIL FILTER.
2. REMOVE & REPLACE CHT PROBE ON CYLINDER #6. OPS CHECK GOOD. Installed P/N 24584-001 - CHT PROBE.
3. PERFORMED COMPRESSION CHECK ON HOT ENGINE. COMPRESSIONS AS FOLLOWS 1) 60/80 2) 70/80 3) 70/80 4) 70/80 5) 64/80 6) 66/80. CLEANED, GAPPED, TESTED AND ROTATED SPARK PLUGS. FUNCTIONALITY TEST PERFORMED ON MAGNETO. CHECKED MAGNETO TIMING-GOOD. REPLACED BROKEN CLAMP ON BLAST TUBE. LUBRICATED ALL ENGINE CONTROLS & CHECKED FOR ALL STOPS & FREEDOM OF TRAVEL. CLEANED FUEL INJECTION NOZZLES IAW MANUFACTURERS APPROVED INSTRUCTIONS FOR CONTINUED AIRWORTHINESS. CLEANED & INSPECTED GASCOLATOR SCREEN. I CERTIFY THAT THIS ENGINE WAS INSPECTED IRW SR22-AMM ANNUAL INSPECTION CHECKLIST & IAW FAR43 APX (D) "ANNUAL INSPECTION CHECKLIST" AND FOUND TO BE IN AN AIRWORTHY CONDITION.

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Warbird Factory 743 ALBANY SHAKER ROAD · Latham, NY 12110 · 5186331155

With respect to the work performed, this engine is approved for return to service. Details of work performed are on file with Warbird Factory under work order: WO\_244.

Andres Morales IA 3859420 

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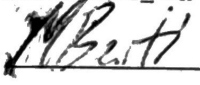


Warbird Factory - 743 ALBANY SHAKER ROAD · Latham, NY 12110 · 5186331155

**N814LT** **CONT MOTOR, IO-550-N, S/N: 1031162** **February 26, 2025**  
 HOBBS: 3940.0 TACH: 3102.0 SMOH: 1094.0

REMOVED PROPELLER P/N: PHC-J3YF-1RF S/N: FP7368B AND ENGINE P/N: IO-550-N S/N: 1031162 FOR REPAIR FROM N814LT. CIRRUS SR22 S/N 3568.

With respect to the work performed, this engine is approved for return to service. Details of work performed are on file with Warbird Factory under work order: WO\_270.


Michael Berti A&P 4051217 


# Engine Service and Maintenance Record

Date	Total Time		Time Since Last Overhaul	
	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

DATE: May 6, 2025	ENGINE MODEL: IO550N68B	ENGINE S/N: 1031162	ENGINE TT / SMOH: 3102 / 1094 3120
 <b>Continental Services</b> Fairhope, Alabama, USA			
<p>This engine was delivered to Continental Services for inspection due to a propeller strike. Engine disassembled, cleaned, and inspected in accordance with Continental Manuals M-16 (revision date of 05/22) and M-0 (08/24). The following serialized items were installed as replacements: magnetos (D24IC587, D24IC589), crankcase (R14JA091), camshaft (548251-3), cylinder (AC23AC586), fuel pump (B22EA082R). Engine assembled in accordance with M-16 and M-0 using new seals, gaskets and "O" rings. New connecting rod bolts, nuts and bearings and crankshaft bolts and bearings installed. Applicable Service Bulletins and Airworthiness Directives have been complied with. This engine has been tested in accordance with procedures listed in M-16 and M-0 and has been accepted. I certify that this engine has been inspected and repaired as indicated above and was determined to be airworthy with respect to the work performed. Details of this repair are on record at this facility. Work Order ES-12595</p>			
Complied with the following Service Bulletins and Airworthiness Directives: M87-23, M93-4, MSB94-8D, MSB96-10B, SB18-07, SB19-07, SB653, SID96-6.			
MECHANIC: <i>Cele [Signature]</i>		9CER853B AUTHORIZATION: <i>Chad Bayliff</i>	9CER853B

wo: WO\_270

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Warbird Factory · 743 ALBANY SHAKER ROAD · Latham, NY 12110 · 5186331155

<b>N814LT</b>	<b>CONT MOTOR, IO-550-N, S/N: 1031162</b>	<b>January 09, 2026</b>
HOBBS: 3940.0	TACH: 31020 <b>3120.0</b> SMOH: 1094.0	
<ol style="list-style-type: none"> <li>1. INSTALLED NEW ENGINE MOUNT P/N 16546-1 S/N 3428 IAW SR22 MM 71-20.</li> <li>2. INSTALLED REPAIRED ENGINE (SEE CONTINENTAL SERVICED W/O ES-12595 FOR DETAILS) MODEL IO-550-N68B S/N 1031162 USING EXISTING ISOLATORS IAW SR22 AMM 71-00, 71-20.</li> <li>3. INSTALLED ALL ACCESSORIES AS REMOVED FROM ENGINE BEFORE REPAIR. ALT 1 (P/N ES10024 S/N H-U040810), ALT 2 (P/N 657199 S/N H-0090172), STARTER (P/N C24ST5 S/N H-U013472), AND PROP GOVERNOR (P/N D-20309-22 S/N 220455).</li> <li>4. INSTALLED NEW SPINNER BULKHEAD P/N C-2294-12P AND NEW PROPELLER P/N PHC-J3YF-1RF S/N F7693DFB IAW SR22 AMM 61-10.</li> <li>5. SERVICED ENGINE WITH 8 QTS. PHILLIPS 20W50 TYPE M.</li> <li>6. PERFORMED RUN IN AND FUEL SYSTEM ADJUSTMENT IAW CONTINENTAL M-0.</li> <li>7. OPERATIONS AND LEAK CHECK OK.</li> </ol>		

With respect to the work performed, this engine is approved for return to service. Details of work performed are on file with Warbird Factory under work order: WO\_270.

Michael Berti A&P 4051217 *MB*