

ENGINE LOG BOOK



Publication ELB-01

NOV 2013

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 CERTIFICATE DATA SHEET
USE OF AUTOMOTIVE FUEL IS PROHIBITED**




Continental Motors

FAA PRODUCTION CERTIFICATE NO. 508

Printed: 06/14/2016

Test Date: 06/13/2016

This engine model I0550N68B, serial number 1032517 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.

Form 6012-03 (Rev Sept 2014)

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

Model: SR22
S/N: 4378
Reg. No: N189FG



Date: 23-Aug-2016
TT: 26.1
Hobbs: 31.7

Engine S/N: 1032517

Inspections Accomplished:

2001-Complied with a CMX 25 Hour Inspection. Ref AMM 05-00.

Maintenance Accomplished:

2002-Complied with oil and filter change. Ref AMM 12. Cut open filter and inspected for metal. No metal noted at this time. Replaced oil filter and serviced with 8 quarts of Phillips 20W50 X/C. Oil filter P/N: AA48108-2.

Complied with cylinder compression check:

Cyl No	1	3	5	2	4	6
PSI	72/80	76/80	75/80	74/80	76/80	74/80

Master Orifice Reading: 40.

2003-Complied with fuel system set-up. Ref SID 97-3F.

I certify the engine identified above was inspected in accordance with a CMX 25 Hour Inspection, found to be airworthy, and is approved for return to service with respect to the work performed. Pertinent details of the work performed are on file at this repair station under Work Package No CIR900.

Signed:

For: Corporate Flight Management, Inc.

Certified Repair Station No FJTR920D

Form CFM 007

Model: SR22
S/N: 4378
Reg. No: N189FG



Date: 03-Oct-2016
Hobbs: 58.7
Flight: 48.4

Engine S/N: 1032517

Inspections Accomplished:

2001-Complied with a CMX 50 Hour Inspection. Ref AMM 05-00.

Maintenance Accomplished:

2002-Complied with oil and filter change. Ref AMM 12. Cut open filter and inspected for metal. No metal noted at this time. Replaced oil filter and serviced with 8 quarts of Phillips 20W50 X/C. Oil filter P/N: AA48108-2.

The engine identified above was inspected and repaired in accordance with current Federal Aviation Regulations and is approved for return to service with respect to the work performed. Pertinent details of the work performed are on file at this repair station under Work Package No CIR915.

Signed:

For: Corporate Flight Management, Inc.

Certified Repair Station No FJTR920D

Form CFM 007

Model: SR22
S/N: 4378
Reg. No: N189FG



Date: 22-Feb-2017
TT: 128.5
Hobbs: 109.2

Engine

Maintenance Accomplished:

-Complied with Cirrus 100HR CMX Inspection Ref AMM 05-00 and CMX checklist.

-Complied with oil and filter change Ref AMM 12-00. Cut open filter, inspected for metal, none found at this time. PN:AA48108-2, 8 Qts Phillips 20W50.

I certify the engine identified above was inspected in accordance with an annual type inspection, as required by FAR 91.409(f)(1), found to be airworthy, and is approved for return to service with respect to the work performed. Pertinent details of the work performed are on file at this repair station under Work Package No JWN771.

Signed:

For: Contour Aviation



Certified Repair Station No FJTR920D


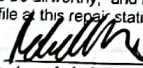
Form CFM 007


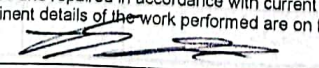
Engine Service and Maintenance Record

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 →

Model: SR22	 <p>CORPORATE FLIGHT MANAGEMENT 276 Doug Warpoole Road Smyrna, TN 37167 615.534.4600</p>	Date: 5/31/17
S/N: 4378		Hobbs: 179.6
Reg. No: N189FG		Flight: 153.2
Engine		
<p>Maintenance Accomplished: -Complied with Cirrus 150 hour inspection I/AW Cirrus Inspection form. -Complied with oil and oil filter change. Inspected oil filter-no metal noted, ref AMM Chapter 12, added 8 qts Phillips 20W50XC & AA48108-2 filter.</p> <p>The components identified above have been inspected and repaired in accordance with the current Federal Aviation Regulations and are approved for return to service with only with respect to the work performed. Pertinent details of the work performed are on file at this repair station under Work Order N#JWN1087</p>		
Signed:  Corporate Flight Management, Inc. Certified Repair Station FJTR920D Form CFM 007		

Model: SR22	 <p>CORPORATE FLIGHT MANAGEMENT 276 Doug Warpoole Road Smyrna, TN 37167 615.534.4600</p>	Date: 17-Aug-2017														
S/N: 4378		TAT: 200.6														
Reg. No: N189FG		Hobbs: 233.4 Flight: 200.6														
Engine S/N: 1032517																
<p>Inspections Accomplished: -Complied with Engine Annual Inspection. Ref AMM 05-30.</p> <p>Airworthiness Directives: -Researched ADs through 17-Aug-2017; none are due at this time.</p> <p>Maintenance Accomplished: -Complied with oil and filter change IAW AMM 12. Cut open filter and inspected for metal. No metal noted at this time. Replaced oil filter and serviced with 8 quarts of Phillips 20w50. Oil filter P/N: AA48108-2. Complied with cylinder compression check:</p>																
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 10%;">Cyl No</th> <th style="width: 10%;">1</th> <th style="width: 10%;">3</th> <th style="width: 10%;">5</th> <th style="width: 10%;">2</th> <th style="width: 10%;">4</th> <th style="width: 10%;">6</th> </tr> <tr> <td>PSI</td> <td>68/80</td> <td>68/80</td> <td>72/80</td> <td>54/80</td> <td>56/80</td> <td>62/80</td> </tr> </table>			Cyl No	1	3	5	2	4	6	PSI	68/80	68/80	72/80	54/80	56/80	62/80
Cyl No	1	3	5	2	4	6										
PSI	68/80	68/80	72/80	54/80	56/80	62/80										
<p>Master Orifice Reading: 38. -Removed broken oil cooler P/N 654585A1 S/N C16-13012-185 and replaced with new oil cooler P/N 654585A1 S/N F17-140006-298 Ref TCM MM. -Removed two weak spark plugs and replaced with new plugs P/N URHB32E Ref TCM MM.</p> <p>I certify the engine identified above was inspected in accordance with an annual type inspection, as required by FAR 91.409(f)(1), found to be airworthy, and is approved for return to service with respect to the work performed. Pertinent details of the work performed are on file at this repair station under Work Package N# JWN1198.</p>																
Signed:  For: Contour Aviation Certified Repair Station N# FJTR920D Form CFM 007																

Model: SR22	 <p>CONTOUR AVIATION 693 Fitzhugh Blvd. Smyrna, TN 37167 615.534.4600</p>	Date: 13-March-2018														
S/N: 4378		Hobbs: 349.9														
Reg. No: N189FG		Flight: 299.1														
Engine S/N: 1032517																
<p>Maintenance Accomplished: -Complied with Cirrus 100 hour and 300 hours CMX inspection checklist Ref Cirrus CMX program checklist. -Complied with cylinder compression check:</p>																
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 10%;">Cyl No</th> <th style="width: 10%;">1</th> <th style="width: 10%;">3</th> <th style="width: 10%;">5</th> <th style="width: 10%;">2</th> <th style="width: 10%;">4</th> <th style="width: 10%;">6</th> </tr> <tr> <td>PSI</td> <td>70/80</td> <td>72/80</td> <td>78/80</td> <td>68/80</td> <td>74/80</td> <td>68/80</td> </tr> </table>			Cyl No	1	3	5	2	4	6	PSI	70/80	72/80	78/80	68/80	74/80	68/80
Cyl No	1	3	5	2	4	6										
PSI	70/80	72/80	78/80	68/80	74/80	68/80										
<p>Master Orifice Reading: 38. -Removed fuel injectors, cleaned, inspected and re-installed all 6 fuel injects with new O-rings P/N 630979-9 and Gaskets P/N X1473 Ref TCM MM M-16 Section 6-3.4</p> <p>The engine identified above was inspected and repaired in accordance with current Federal Aviation Regulations and is approved for return to service with respect to the work performed. Pertinent details of the work performed are on file at this repair station under Work Package N# JWN1214.</p>																
Signed:  For: Contour Aviation Certified Repair Station N# FJTR920D Form CFM 007																

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 →

Model: SR22
S/N: 4378
Reg. No: N189FG



Date: 18 April 2018
Hobbs: 418.40
Flight: 359.30

Engine S/N: 1032517

Maintenance Accomplished:

- Complied with a CMX 50 Hour Inspection. Ref Cirrus CMX checklist.
- Complied with oil and filter change. Ref AMM 12. Cut open filter and inspected for metal. No metal noted at this time. Replaced oil filter and serviced with 8 quarts of Phillips 20W50 X/C. Oil filter P/N: AA48108-2.

The engine identified above was inspected and repaired in accordance with current Federal Aviation Regulations and is approved for return to service with respect to the work performed. Pertinent details of the work performed are on file at this repair station under Work Package No JWN1579.

Signed: *[Signature]*
For: Contour Aviation

Certified Repair Station No FJTR920D

Form CFM 007

Model: SR22
S/N: 4378
Reg. No: N189FG



Date: 01 June 2018
TAT: 415.6
Hobbs: 482.8
ETT: 415.6

Engine S/N: 1032517

Inspections Accomplished:

- Complied with Engine Annual Inspection. Ref AMM 05-20.

Airworthiness Directives:

- Researched ADs through 01 June 2018; none are due at this time.

Maintenance Accomplished:

- Complied with oil and filter change. Ref AMM 12. Cut open filter and inspected for metal. No metal noted at this time. Replaced oil filter and serviced with 8 quarts of Phillips 20W50 X/C. Oil filter P/N: AA48108-2.

Complied with cylinder compression check:

Cyl No	1	3	5	2	4	6
PSI	60/80	70/80	72/80	64/80	60/80	69/80

Master Orifice Reading: 44.

- Removed all 12 leaking rocker box cover gaskets and replaced with new gaskets P/N 655705 Ref CMI IO-550-N OHM.
- Removed one weak firing spark plug and replaced with new spark plug P/N URHB32E Ref CMI IO-550-N OHM

I certify the engine identified above was inspected in accordance with an annual type inspection, as required by FAR 91.409(f)(1), found to be airworthy, and is approved for return to service with respect to the work performed. Pertinent details of the work performed are on file at this repair station under Work Package No JWN1626.

Signed: *[Signature]*
For: Contour Aviation

Certified Repair Station No FJTR920D

Form CFM 007

Model: SR22
S/N: 4378
Reg. No: N189FG



Date: 30 July 2018
Hobbs: 549.10
Flight: 474.40

Engine S/N: 1032517

Maintenance Accomplished:

- Complied with a CMX 50 Hour Inspection. Ref Cirrus CMX checklist.
- Complied with oil and filter change. Ref AMM 12. Cut open filter and inspected for metal. No metal noted at this time. Replaced oil filter and serviced with 8 quarts of Phillips 20W50 X/C. Oil filter P/N: AA48108-2.

The engine identified above was inspected and repaired in accordance with current Federal Aviation Regulations and is approved for return to service with respect to the work performed. Pertinent details of the work performed are on file at this repair station under Work Package No JWN1642.

Signed: *[Signature]*
For: Contour Aviation

Certified Repair Station No FJTR920D


Form CFM 007

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

Date	Total Time	Time Since Last Overhaul			
	Hours	Min	Hours	Min	

Carried forward

Model: SR22		Date: 16 Nov 2018
S/N: 4378		Hobbs: 630.8
Reg. No: N189FG		Flight: 546.5

693 Fitzhugh Blvd.
Smyrna, TN 37167
615.534.4600

Engine S/N: 1032517

Maintenance Accomplished:
 -Complied with Cirrus 100 hour CMX inspection checklist Ref Cirrus CMX program checklist.
 -Complied with cylinder compression check:

Cyl No	1	3	5	2	4	6
PSI	62/80	72/80	70/80	70/80	65/80	70/80

Master Orifice Reading: 38.
 -Complied with oil and filter change. Ref AMM 12. Cut open filter and inspected for metal. No metal noted at this time. Replaced oil filter and serviced with 8 quarts of Phillips 20W50 X/C. Oil filter P/N: AA48108-2.
 -Removed and Replaced Engine Oil Cooler with New P/N 658756 S/N A18-14781-28 Ref AMM 79-20
 -Removed and Replaced all 12 Spark Plugs with New P/N URHB32E Ref CMI Service Manual
 -Removed L/H and R/H Magnetos and sent out for 500 Hour Inspection and Reinstalled after inspection Ref CMI Service Manual. Ref Contour Aviation Work Order COM5627 and COM5628 and 8130-3.

The engine identified above was inspected and repaired in accordance with current Federal Aviation Regulations and is approved for return to service with respect to the work performed. Pertinent details of the work performed are on file at this repair station under Work Package No CIR1025.

Signed: Chris
 For: Contour Aviation Certified Repair Station No FJTR920D

Form CFM 007

SO#	19-26757	SILVERHAWK AVIATION INC.	DATE	03/12/19
REG.	N189FG	Lincoln Municipal Airport [LNK]	TACH	607.8
MAKE	Cirrus	MODEL	SERIAL NO.	
		SR22	4378	

Maintenance Record

1. Complied with oil and filter change. Drained engine oil and removed oil filter, cut open oil filter for contamination check with none found. Installed new oil filter P/N CH48108-1 and serviced engine with 7 quarts of Phillips X/C 20W-50 oil. Ran aircraft for leak checks with no leaks noted. Reference Cirrus SR22 AMM, Chapter 12-10.
2. Complied with customer requested oil sample. Collected oil sample and sent out for evaluation. Reference Avlabs oil sample instructions.

I certify this maintenance was inspected and is determined to be in an airworthy condition. Pertinent details are on file under the noted shop order number: 19-26757 Date: March 12, 2019.

Signed: Benjamin A. Taylor [Signature], for
 Silverhawk Aviation, Inc. CRS# YQSR759U
 Lincoln, NE 68524

SO#	19-27055	SILVERHAWK AVIATION INC.	DATE	05/03/19
REG.	N189FG	Lincoln Municipal Airport [LNK]	TACH	659.7
MAKE	Cirrus	MODEL	SERIAL NO.	
		SR22	4378	

Maintenance Record Engine

1. Complied with CMX 50 Hour Interval Items (In-Service Inspection 1). Ran aircraft for operational checks. Drained engine oil and removed oil filter. Cut open filter for contamination check with none found. Installed new oil filter P/N CH48108-1. Serviced engine with 8 quarts of Phillips X/C 20w-50 oil. Ran aircraft for post inspection run and leak checks with no discrepancies noted. Reference Cirrus CMX (In-Service Inspection 1) 50 Hour Interval Items and Cirrus SR22 Airplane Maintenance Manual, Chapter 12-10.
2. Removed broken #2 alternator mount bracket P/N 646405. Installed new bracket P/N 646405. Reinstalled #2 alternator. Ran aircraft for #2 alternator operational check with no discrepancies. Reference Cirrus SR22 Airplane Maintenance Manual, Chapter 24-30 and Continental Motors Aircraft Engine Standard Practices Maintenance Manual Pub # M-O, Appendix B, Table B-2.

I certify this maintenance was inspected and is determined to be in an airworthy condition. Pertinent details are on file under the noted shop order number: 19-27055 Date: May 03, 2019.

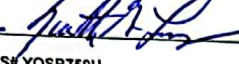
Signed: Benjamin A. Taylor [Signature], for
 Silverhawk Aviation, Inc. CRS# YQSR759U
 Lincoln, NE 68524

REG.	N189FG	SILVERHAWK AVIATION INC.				DATE	07/11/19
MAKE	Cirrus	Lincoln Municipal Airport [LNK]				TACH	688.5
		MODEL	SR22	SERIAL NO.	4378	ACTC	812.8

Maintenance Record

- Corrected left and right magneto timing to 22° before top dead center cylinder #1. Ran for operational checks with no discrepancies. Reference Continental Motors Standard Practices for Spark Ignited Engines Maintenance Manual, Chapter 6-4.9.1.
- Removed #1 cylinder injector line worn bracket and clamp. Installed new bracket P/N 641559 and new clamp P/N 652436-1. Reference Continental IO-550-N Maintenance and Overhaul Manual, Chapter 17-11.4.
- Removed #3 cylinder injector line worn bracket and clamp. Installed new bracket P/N 641559 and new clamp P/N 652436-1. Reference Continental IO-550-N Maintenance and Overhaul Manual, Chapter 17-11.4.

I certify this maintenance was inspected and is determined to be in an airworthy condition. Pertinent details are on file under the noted shop order number: 19-27534 Date: July 11, 2019.

Signed: Benjamin A. Taylor  for
Silverhawk Aviation, Inc. CRS# YQSR759U
Lincoln, NE 68524

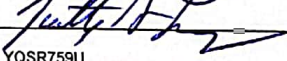
SO#	19-27479	SILVERHAWK AVIATION INC.				DATE	07/11/19
REG.	N189FG	Lincoln Municipal Airport [LNK]				TACH	688.5
MAKE	TCM	MODEL	IO550N68B	SERIAL NO.	1032517	ACTT	688.5
		ETT	688.5	ETSOH	N/A	HOBBS	812.8

Maintenance Record

- Complied with Annual Inspection. Ran aircraft for operational checks. Compressions: #1-67/80, #2-70/80, #3-78/80, #4-71/80, #5-69/80, #6-70/80 MO= 44/80. Removed spark plugs and tested, cleaned, gapped, and rotated before reinstallation. Performed airframe and powerplant annual inspections. Post inspection ran aircraft for leak checks with no leaks noted. Reference Cirrus SR22 Airplane Maintenance Manual, Chapter 5-20 and 5-30.
- Completed 50 hour oil change. Ran aircraft, drained engine oil. Removed oil filter and cut open for contamination check with none found, installed new oil filter P/N CH48108-1 and serviced engine with 8 quarts of Phillips X/C 20w-50 oil. Ran aircraft for leak checks with none noted. Reference Cirrus SR22 Airplane Maintenance Manual, Chapter 12-10.

I certify this (aircraft) (engine) (propeller) has been inspected in accordance with an Annual inspection as per 14 CFR 91.409 (a)(1) and was determined to be in an airworthy condition.

Dated: July 11, 2019 W.O. 19-27479


Signed: Scotty G. Long  for
Silverhawk Aviation Inc. CRS # YQSR759U
Lincoln, NE 68524

SO#	19-27737	SILVERHAWK AVIATION INC.				DATE	08/9/19
REG.	N189FG	Lincoln Municipal Airport [LNK]				TACH	727.6
MAKE	TCM	MODEL	IO-550-N68B	SERIAL NO.	1032517	ACTC	

Maintenance Record

- Removed leaking Alternator #1 mating gasket p/n 653981. Installed new Alternator #1 mating gasket p/n 653981. No discrepancies noted at this time. Reference Cirrus SR22 Airplane Maintenance Manual Chapter 24-30.

I certify this maintenance was inspected and is determined to be in an airworthy condition. Pertinent details are on file under the noted shop order number: 19-27737 Date: August 9, 2019.

Signed: Benjamin A. Taylor  for
Silverhawk Aviation, Inc. CRS# YQSR759U
Lincoln, NE 68524

SILVERHAWK AVIATION INC.					DATE	08/12/19	
Lincoln Municipal Airport [LNK]					HOUR	858.9	
SO#	19-27715	MODEL		IO-550-N	SERIAL NO.	1032517	
REG.	N189FG					ACTC	727.6
MAKE	Continental						

- Maintenance Record**
- Ran aircraft and adjusted max RPM to 2690 per customer request. Reference Cirrus SR22 Airplane Maintenance Manual, Chapter 61-20.
 - Performed engine ground run. Drained oil and removed oil filter p/n CH48108-1 and cut and inspected oil filter with no discrepancies noted at this time. Installed new oil filter p/n CH48108-1 and serviced engine with 7 quarts of Phillips X/C 20W50 oil. Performed engine ground run with no leaks noted at this time. Reference Cirrus SR22 Aircraft Maintenance Manual, Chapter 12-1.

I certify this maintenance was inspected and is determined to be in an airworthy condition. Pertinent details are on file under the noted shop order number: 19-27715 Date: August 12, 2019.


Signed: Benjamin A. Taylor , for

Silverhawk Aviation, Inc. CRS# YQSR759U
Lincoln, NE 68524

SILVERHAWK AVIATION INC.					DATE	10/24/2019	
Lincoln Municipal Airport [LNK]					HOBBS	950.0	
SO#	19-28183	MODEL		SR22	SERIAL NO.	4378	
REG.	N189FG					ACTT	799.6
MAKE	CIRRUS						

- Maintenance Record Airframe/Engine/Propeller**
- Removed propeller Hartzell model P/N. PHC-J3Y1F-1N, S/N. NJ1362B. Installed "Overhauled" and tested propeller Hartzell model PHC-J3Y1F-1N, S/N. NJ1775B see FAA form 8130-3 FTN 20481 Palm Beach Aircraft Propeller dated 22/OCT/2019 for details. Performed engine crankshaft run-out and flange dye-penetrant inspection with no discrepancies noted at this time. Performed engine/propeller ground run performance and leak check with no discrepancies noted at this time. Reference the Cirrus SR22 AMM 05-00, 24-00, 61-00, 72-00 and the TCM IO-550 Series Maintenance and Overhaul Manual Section 15-7, Appendix D and TCM Service Bulletin No. 96-11B.
 - Inspected aircraft as required and determined that it is in safe condition for intended one-time ferry flight from KCBF direct KLNK in accordance with Special Flight Permit issued by the Lincoln, Nebraska FAA FSDO on 10/24/2019. All applicable Airworthiness Directives have been complied with. See Silverhawk Aviation, Inc. Shop Order No. 19-28183 for complete details. --- END ---

I certify this maintenance was inspected and is determined to be in an airworthy condition. Pertinent details are on file under the noted shop order number: 19-28183 Date: October 24, 2019.

Signed: Scotty G. Long , for


Silverhawk Aviation, Inc. CRS# YQSR759U
Lincoln, NE 68524

SILVERHAWK AVIATION INC.					DATE	10/28/2019		
Lincoln Municipal Airport [LNK]					TACH	800.0		
SO#	19-28183	MODEL		IO550N68B	SERIAL NO.	1032517		
REG.	N189FG					ACTT	800.0	
MAKE	TCM	ETT		800.0	ETSOH	N/A	HOBBS	950.9

Maintenance Record Engine

- Removed engine for propeller ground strike inspection TCM Model P/N. IO550N68B, S/N. 1032517 reference the Cirrus SR22 AMM 71-00, 72-00.

I certify this maintenance was inspected and is determined to be in an airworthy condition. Pertinent details are on file under the noted shop order number: 19-28183 Date: October 28, 2019.

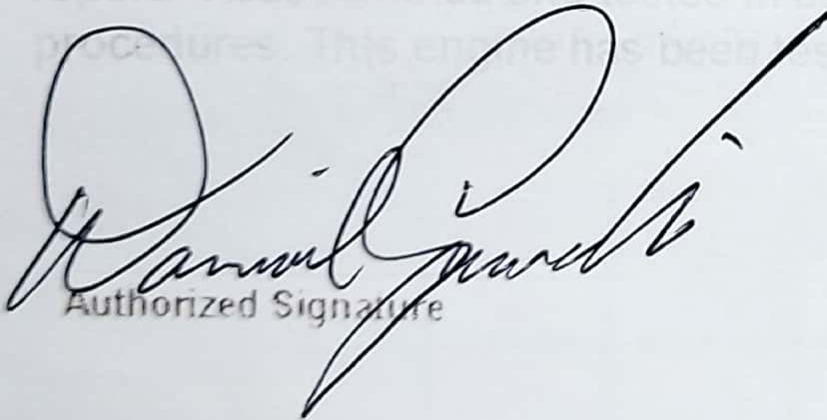
Signed: Scotty G. Long , for

Silverhawk Aviation, Inc. CRS# YQSR759U
Lincoln, NE 68524

CENTRAL CYLINDER SERVICE INC
AIRCRAFT ENGINE REBUILDERS
Certified Repair Station MY2RO22L

1 ea. Continental IO-550-N SN: 1032517 Prop Strike Inspection

This engine has been disassembled, inspected and repaired IAW Continental Prop Strike SB96-11B using listed parts under WO#19060 Bendix Magnetos inspected for Prop strike. Cylinders R & R Only. Crankshaft clean, NDT and dimensionally inspected. Sent to AIC Spec. for Ultra Sonic inspection per WO#257485 Crankcase clean, dye checked and dimensionally inspected. Misc. steel parts MPI under hidden damage report. Reassembled and tested in accordance with current recommended procedures. This engine has been test run and is approved to return to service.



Authorized Signature

December 03, 2019

Date

Central Cylinder Service, INC.
6315 Lindbergh Drive
Omaha, NE 68110-2819

REG.	N189FG	SILVERHAWK AVIATION INC.				DATE	12/12/19
MAKE	TCM	Lincoln Municipal Airport [LNK]				HOBBS	950.9
		MODEL	IO-550-N68B	SERIAL NO.	1032517	ACTT	800.0

Maintenance Record Engine

1. Removed and reinstalled engine IO-550-N S/N 1032517 after propeller strike inspection and repair referencing Cirrus SR22 Aircraft Maintenance Manual Chapter 71-00. See Central Cylinder FAA Form 8130-3 dated 12-3-2019.
2. Removed and reinstalled prop governor model C290D3-R/T23 S/N 160292 after overhaul referencing Cirrus SR22 Aircraft Maintenance Manual Chapter 61-20. See Palm Beach Aircraft Propeller FAA Form 8130-3 dated 11-7-2019.
3. Removed and reinstalled #1 alternator P/N 656802 S/N H-S082350 after overhaul referencing Cirrus SR22 Aircraft Maintenance Manual Chapter 24-30. See Aerotech of Louisville FAA Form 8130-3 dated 11-14-2019.

I certify this maintenance was inspected and is determined to be in an airworthy condition. Pertinent details are on file under the noted shop order number: 19-28183 Date: December 12, 2019.

Signed: Benjamin A. Taylor



Silverhawk Aviation, Inc. CRS# YQSR759U
Lincoln, NE 68524

SO#	19-28389	SILVERHAWK AVIATION INC.				DATE	12/13/19
REG.	N189FG	Lincoln Municipal Airport [LNK]				HOBBS	950.9
MAKE	TCM	MODEL	IO-550-N68B	SERIAL NO.	1032517	ACTT	800.0

Maintenance Record Engine

1. Ran aircraft for operational checks and performed modified 50 hour inspection with no discrepancies at this time. Reference Cirrus In-Service Inspection 50 Hour Interval Items and customer requested inspection items.

I certify this maintenance was inspected and is determined to be in an airworthy condition. Pertinent details are on file under the noted shop order number: 19-28389 Date: December 13, 2019.

Signed: Benjamin A. Taylor




Silverhawk Aviation, Inc. CRS# YQSR759U
Lincoln, NE 68524

SO#	20-28799	SILVERHAWK AVIATION INC.				DATE	02/25/20
REG.	N189FG	Lincoln Municipal Airport [LNK]				TACH	852.8
MAKE	Cirrus	MODEL	SR22	SERIAL NO.	4378		

Maintenance Record

1. Troubleshoot oil on belly of aircraft. Rerouted Airwolf ram air hose for more positive induction of ram air to air/oil separator. Cleaned air/oil separator. Work done referencing Airwolf manual AFC-W360 Rev. C.
2. Applied heat tape part number 53294-002 to left lower cowl referencing Cirrus SR22 AMM Chapter 71-10.
3. Troubleshoot inoperative Tanis heater to fuse holder connections being loose. Straightened holding tabs on fuse holders for positive connection with operational check good of all heaters and indicator light. Work done referencing Tanis Aircraft ICA 3052.

I certify this maintenance was inspected and is determined to be in an airworthy condition. Pertinent details are on file under the noted shop order number: 20-28799 Date: February 25, 2020.


Signed: Benjamin A. Taylor  for
 Silverhawk Aviation, Inc. CRS# YQSR759U
 Lincoln, NE 68524

SO#	20-28799	SILVERHAWK AVIATION INC.				DATE	02/25/20
REG.	N189FG	Lincoln Municipal Airport [LNK]				TACH	852.8
MAKE	Cirrus	MODEL	SR22	SERIAL NO.	4378		

Maintenance Record

1. Complied with oil and filter change. Drained engine oil and removed oil filter, cut open oil filter for contamination check with none found. Installed new oil filter P/N CH48108-1 and serviced engine with 7 quarts of Phillips X/C 20W-50 oil. Ran aircraft for leak checks with no leaks noted. Reference Cirrus SR22 AMM, Chapter 12-10.

I certify this maintenance was inspected and is determined to be in an airworthy condition. Pertinent details are on file under the noted shop order number: 20-28799 Date: February 25, 2020.

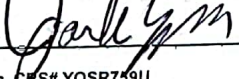
Signed: Benjamin A. Taylor  for
 Silverhawk Aviation, Inc. CRS# YQSR759U
 Lincoln, NE 68524

SO#	20-29440	SILVERHAWK AVIATION INC.				DATE	07/06/2020
REG.	N189FG	Lincoln Municipal Airport [LNK]				TACH	900.5
MAKE	Cirrus	MODEL	SR22	SERIAL NO.	4378	Hobbs	1081.5

Maintenance Record Engine

1. Removed propeller. Removed the leaking engine nose crackshaft oil seal and replaced with a new shaft seal PN: 641250. Reinstalled propeller with a new prop flange oring PN: C-3317-228. Engine run completed for leak check with no leaks noted at this time. Reference the TCM IO-550 Permold Series Engine Maintenance and Overhaul Manual chapter 10-9.1.

I certify this maintenance was inspected and is determined to be in an airworthy condition. Pertinent details are on file under the noted shop order number: 20-29440 Date: July 6, 2020.

Signed: Jordan Spriger  for
 Silverhawk Aviation, Inc. CRS# YQSR759U
 Lincoln, NE 68524

SO#	20-29403	SILVERHAWK AVIATION INC.			DATE	06/11/2020
REG.	N189FG	Lincoln Municipal Airport [LNK]			TACH	892.5
MAKE	Cirrus	MODEL	SR22	SERIAL NO.	4378	

Maintenance Record Engine

1. Ran aircraft, drained engine oil. Removed and inspected oil filter for contamination with none found. Installed new oil filter p/n CH48109-1 and serviced engine with 7 qts of Phillips X/C 20w-50 oil. Ran aircraft for leak checks with none noted. Reference Cirrus SR22 airplane maintenance manual chapter 12-10.

I certify this maintenance was inspected and is determined to be in an airworthy condition. Pertinent details are on file under the noted shop order number:
20-29403 Date: June 11, 2020

Signed: Benjamin A. Taylor  , for

Silverhawk Aviation, Inc. CRS# YQSR759U
 Lincoln, NE 68524

SO#	20-29457	SILVERHAWK AVIATION INC.				DATE	07/07/2020
REG.	N189FG	Lincoln Municipal Airport [LNK]				TACH	900.5
MAKE	TCM	MODEL	IO550N68B	SERIAL NO.	1032517	ACTT	900.5
		ETT	900.5	ETSOH	N/A	HOBBS	1081.5

Maintenance Record Engine

1. Complied with Annual Inspection referencing Cirrus SR22 AMM Chapter 05-20 and 05-30. Compressions: #1-74/80, #2-50/80, #3-60/80, #4-66/80, #5-66/80, #6-56/80. Cleaned, gapped, analyzed, and rotated spark plugs. Run up and leak check good.
2. Ran aircraft, drained engine oil, removed and inspected oil filter for contamination. None found. installed new oil filter p/n CH48108-1 and serviced engine with 7 qts of Aeroshell 100 mineral oil. Ran aircraft for leak checks with none noted. Reference Cirrus SR22 Maintenance Manual Chapter 12-10.
3. Removed the low compression #1-cylinder PN: 658595A1 SN: AC16EA772. Installed a new cylinder PN: 658815A1 SN: AC20DB725. Engine run completed for operational and leak check with no discrepancies noted at this time. Post #1 compression 74/80. Reference the TCM IO-550 Permold Series Engine Maintenance and Overhaul Manual chapter 10-8.

I certify this (aircraft) (engine) (propeller) has been inspected in accordance with an Annual inspection as per 14 CFR 91.409 (a)(1) and was determined to be in an airworthy condition.

Dated: July 07, 2020 W.O. 20-29457

Signed: Eugene Luce  for

Silverhawk Aviation Inc. CRS # YQSR759U
Lincoln, NE 68524

REG #	N189FG	Signature TECHNICAIR 3636 Wilbur Plaza, Eppley Airfield Omaha, Nebraska 68110 FAA REPAIR STATION # MGOR426G LOGBOOK INSERT	DATE	28/SEP/2020
MODEL	SR-20		W/O	S93-20-01257
SERIAL #	4378		HOBBS	1116.2
ENG. MOD.	IO-550-N		FLIGHT	927.5
ENG. S/N	1032517		ENG HOBBS	927.9

Engine:

1. Drained engine oil and installed new oil filter Part No. CH48108-1. Serviced engine with 7-qts. Aeroshell 100 oil. Cut open old oil filter and visually inspected. No discrepancies noted at this time. Ground run and leak check satisfactory.

THE AIRCRAFT AND/OR COMPONENT IDENTIFIED ABOVE WAS REPAIRED AND/OR INSPECTED IN ACCORDANCE WITH CURRENT FEDERAL AVIATION REGULATIONS AND WAS FOUND TO BE AIRWORTHY FOR RETURN TO SERVICE. PERTINENT DETAILS OF THE REPAIR/S ARE ON FILE AT THIS FACILITY.

DATE 28/SEP/2020

SIGNED 

Scott vanArsdale for CRS# MGOR426G

SO#	20-30031	SILVERHAWK AVIATION INC.				DATE	10/19/2020
REG.	N189FG	Lincoln Municipal Airport [LNK]				TACH	949.9
MAKE	TCM	MODEL	IO-550-N	SERIAL NO.	1032517	HOBBS	1143.4

Maintenance Record Airframe

1. Drained old oil. Removed old oil filter and cut open to check for contaminants. No contaminants found. Added 7 quarts of Phillips cross country oil SAE 20W-50. Installed new oil filter P/N CH48108-1. Ran aircraft for leak check with no leaks found. Reference Cirrus SR22 airplane maintenance manual chapter 12-10
2. Troubleshoot noise in headset from #1 alternator and found brushes worn 25% of service life with minor chipping on the edges. Noise likely to be coming from Inoperative noise filter or a diode internal to the alternator. Customer elects to take as is.

I certify this maintenance was inspected and is determined to be in an airworthy condition. Pertinent details are on file under the noted shop order number: 20-30031 Date: October 19, 2020

Signed: Benjamin Taylor  for

Silverhawk Aviation, Inc. CRS# YQSR759U
Lincoln, NE 68524

SO#	21-31634	Silverhawk Aviation				DATE	08/12/2021
REG.	N189FG	Lincoln Municipal Airport [LNK]				ACTT	987.8
MAKE	TCM	MODEL	IO-550-N	ETT:	987.8	TACH	987.8
		SERIAL NO.	1032517	ETSOH:	N/A	HOUR	1192.4

Maintenance Engine Record

1. Complied with Annual Inspection compression check MO=46 Cyl# 1 66/80, Cyl# 2 60/80, Cyl# 3 63/80, Cyl# 4 66/80, Cyl# 5 56/80 and Cyl# 6 60/80. Ran engine and drain oil and removed oil filter, cut oil filter open, and inspected with no discrepancies found at this time. Replaced oil filter with new P/N CH48108-1 and 7qts of X/C 20w-50 oil. Removed spark plugs and clean, inspected and serviced and reinstalled. Ran engine for leak checks none noted at this time. Reference Cirrus SR22 AMM Chapter 05-20 and 05-30 and Continental standard practice maintenance manual chapter 6-4.8.2, 6-4.11.2, 6-4.9.2.
2. Complied with 100 hours lubrication. Reference Cirrus SR22 maintenance manual chapter 12-20.

I certify this (aircraft) (engine) (propeller) has been inspected in accordance with a/an Annual inspection as per 14 CFR part 91.409 (a)(1) and was determined to be in an airworthy condition.
 Dated August 12, 2021 W.O. 21-31634 Signed Benjamin Taylor
 Silverhawk Aviation CRS # YQSR759U
 Lincoln, NE 68524

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SO#	21-31733	Silverhawk Aviation				DATE	08/12/2021
REG.	N189FG	Lincoln Municipal Airport [LNK]				TACH	987.8
MAKE	TCM	MODEL	IO-550-N	SERIAL NO.	1032517	HOBBS	1192.4
						ACTT	987.8

Maintenance Record

1. Complied with left magneto 500 hour magneto inspection referencing Continental S20 Service Support Manual Section 6, found distributor gear worn. Removed worn gear and installed new gear using kit 10-357586A. Re-installed magneto with gasket P/N 649954 referencing Cirrus SR22 Airplane Maintenance Manual CH74-10. Ran aircraft for operational check with no discrepancies. Next due 1487.8 ACTT.
2. Complied with right magneto 500 hour magneto inspection referencing Continental S20 Service Support Manual Section 6. Found distributor gear worn. Removed worn gear and installed new gear using kit 10-357586A. Ran aircraft for operational check with no discrepancies noted. Re-installed magneto with gasket P/N 649954 referencing Cirrus SR22 Airplane Maintenance Manual CH74-10. Next due 1487.8 ACTT.

I certify this maintenance was inspected and is determined to be in an airworthy condition. Pertinent details are on file under the noted shop order number: 21-31733 Date: August 12, 2021

Signed: Benjamin Taylor for
 Silverhawk Aviation CRS# YQSR759U
 Lincoln, NE 68524

Date: 11/02/21 N: 189FG Make: TCM IO-550-N S/N: 1032517
 Eng. Hrs.: 1016.8 Flt. Hrs.: 1016.3 Hobbs: 1227.9

Removed propeller assembly & forward cooling baffles as required to access crankcase nose seal. Removed seal retainer plates, removed & replaced nose seal assembly P/N 641250. Reinstalled retainer plates & cooling baffles. Removed & replaced propeller seal P/N C-3317-228, reinstalled propeller assembly, torqued mount nuts & safety wired studs. Washed engine & ground ran engine to operating temperature. Performed differential compression check, results as follows; Master orifice reading 48 psi, #1-66/80, #2-56/60, #3-54/80, #4-56/80, #5-56/80, #6-54/80. Excessive blow-by noted in cylinders #2 - #6. Borescoped cylinders #2 - #6, found cylinder heads & tops of pistons wet with oil. Drained oil & changed oil filter. Checked old filter for contamination, found a relatively high amount of carbon debris for time on filter. Removed engine components as required to facilitate removal of cylinder assemblies #2 - #6. Removed & replaced cylinder assemblies #2 - #6 with overhauled assemblies P/N 658595A, S/N's 6199-1, 6199-2, 6199-3 6199-4 & 6199-5 from ACE Inc. See Maintenance Release tags dated 10/21/21 in aircraft forms for details. Cleaned & gapped all spark plugs. Reinstalled all previously removed components. Cylinder assemblies & all components reinstalled with new gaskets, seals & safety devices as required. Serviced engine with Aeroshell 80 mineral oil. Ground ran engine for operational & leak check, all functions within normal parameters at this time. Work completed in reference to TCM IO-550 Permold Series Overhaul Manual & TCM IO-550 Permold Series Maintenance Manual. Engine returned to service for the work performed. - END -

Daniel L. Ingram A&P3014106
Holdrege Aviation, LLC.
 1320 Brewster Road Holdrege NE 68949

Daniel L. Ingram
Holdrege Aviation

