ENGINE LOG BOOK



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 CERTICATE 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)

Time Since Last Engine Service and Maintenance Record **Total Time** Overhaul Date Record maintenance actions including engine part removal and installation and compliance with inspections, Airworthiness Directives, Hours Min Hours Min Special Inspections, Modifications and Service Bulletins 23-Aug-2016 Date: **SR22** TT: 26.1 S/N: 4378 CORPORATE Hobbs: 31.7 Reg. №: N189FG a, TN 37167-0899 615.534.4600 Engine S/N: 1032517 Inspections Accomplished: 2001-Complied with a CMX 25 Hour Inspection. Ref AMM 05-00. 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. 6 5 2 76/80 74/80 74/80 PSI 72/80 76/80 75/80 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. Certified Repair Station № FJTR920D Form CFM 007 For: Corporate Flight Management, Inc. 03-Oct-2016 **SR22** Model: Hobbs: 58 7 S/N: 4378 CORPORATE P.O. Box 899 Flight: 48.4 Reg. №: N189FG Smyrna, TN 27167-0899 Engine S/N: 1032517 Inspections Accomplished 2001-Complied with a CMX 50 Hour Inspection. Ref AMM 05-00 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 Na CIR915.

Signed: Certified Repair,Station № FJTR920D For: Corporate Flight Management, Inc. Date: 22-Feb-2017 SR22 Model: TT: 128.5 CONTOUR S/N: 4378 693 Fitzhugh Blvd. Hobbs: 109.2 Reg. №: N189FG Smyrna, TN 37167 615.534.4600 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 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. 1, 1997. Signed: _______ Aviation Certified Repair Station Nº FJTR920D Form CFM 007

		Tot	tal Time		ince Last erhaul	Engine	e Servic	e and	Maintenance Record
	Date	Hours	s Min	Hours	Min				ncluding engine part removal and inspections, Airworthiness Directives and Service Bulletins
arrie	ed forward		→						
+								Date:	5/31/17
-		Model		A	00000	DATE		Hobbs:	179.6
		S/N: Reg. №:		4.30	FLIGHT MAN	RATE AGEMENT 276 DO	oug Warpoole Road	Flight:	153.2
		Keg. Ka	N pe la la				Smyrna, TN 37167 615.534.4600		
						Engine	31 / 11		
	-Complied	with oil and	oil filter change	. Inspected of	rus Inspection I filter-no metal	110.001	Chapter 12, added	8 qts Phillips 2	0W50XC & AA48108-2 filter.
			ied above have to service with rk Order NºJW		ted and repaire pect to the wor	ed in accordance k performed. Per	with the current Fed tinent details of the	deral Aviation work perform	Regulations and ad are on file at this
	Signed:(orate Flight	Management,	Inc. Ce	ertified Repair	Station	FJTR920D	Form CF	M 007
_									
		Model:	SR22					Date:	17·Aug·2017
		S/N:	4378		CORPOR			TAT:	200.6
	Name of the last	Reg. №:	N189FG	V	LIGHT MANAG		Warpoole Road myrna, TN 37167		233.4
							615.534.4600	Flight:	200.6
u fe s					Engine	S/N: 1032517			
		ons Accomp d with Engine	Annual Inspe	ction. Ref AM	M 05-30.				
	Airworth -Research	iness Direct	ives:	117: none are	due at this tim				
	-Complied and sen		filter change IA	3 20W30. OII	Cut open filter filter P/N: AA48	and inspected for 8108-2.	metal. No metal r	noted at this tir	ne. Replaced oil filter
+	Cyl N		3	5					
	PSI	68/80		72/80	54/80	56/80 6	6 2/80		
	1 .0						2700		
94	1	ice Reading:	38						
	Master Orif	ice Reading: broken oil co	oler P/N 65458	35A1 S/N C16	5-13012-185 a	nd replaced with	new oil cooler P/N	654585A1 S/I	N F17-140006 208 Post 7 CM ANA
	Master Orif -Removed -Removed	broken oil co two weak spa	oler P/N 65458 ark plugs and r				OIN IVIIVI.		N F17-140006-298 Ref TCM MM.
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	lota	al Time		nce Last rhaul			laintenance Recor
Date	Hours	Min	Hours	Min	Record maintenance installation and com Special Inspections,	pliance with insp	ding engine part removal a pections, Airworthiness Directive d Service Bulletins
ied forward -		-				1	
	Model: S	SR22	1			Date: 18-April-2	1018
	S/N: 4	1378	C C	ONTO	IIR	Hobbs: 418.40	
R	Reg. №: N	N189FG	V	AVIATIO	693 Fitzhugh Blvd. Smyrna, TN 37167 615.534.4600	Flight: 359.30	
		_		Engine S	S/N: 1032517		
and service	h a CMX 50 h h oil and filte ced with 8 qu	Hour Inspection r change. Ref a uarts of Phillips	AMM 12. Cut of 20W50 X/C. (open filter and Oil filter P/N: A	inspected for metal. No metal r	Pegulations and is approv	ved for return to service
_ Signed	unc			Acceptance of the second			Form CFM 007
For:	Contour Av	viation	-	Certified	Repair Station № FJTR920D		
		٠	Model: SR	22			Date: 01-June-2018
			S/N: 437	F 1	CONTOU	R	TAT: 415.6
		Re		39FG	AVIATION	693 Fitzhugh Blvd.	Hobbs: 482.8
						Smyrna, TN 37167 615.534.4600	
				L	Engine S/N: 10	032517	
	li li	nspections A	ccomplished		100 All 100 Al		-
		Complied with	Engine Annua	al Inspection. F	Ref AMM 05-20.		
	-	Airworthiness Researched A	Directives: Ds through 01	·June·2018; n	one are due at this time.		
						ata difer motel. No motel	noted at this time. Replaced oil filter
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	Total	Time		nce Last rhaul					intenance Record
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Carried forwal		Model: S/N: Reg. №:	SR22 4378 N189FG	+ (CONT	DUR	693 Fitzhugh I Smyrna, TN 3 615.534.4	7167	16·Nov·2018 630.8 546.5
		th Cirrus 10	hed: 0 hour CMX ins ompression ch		Engine S/N: 1032517 ecklist Ref Cirrus CMX program checklist.				
	Cyl №	1	3	5	2	4	6		
	PSI	62/80	72/80	70/80	70/80	65/80	70/80		
	and serviced Removed and Removed and Removed L/H	oil and filte with 8 quart Replaced E Replaced a and R/H Ma	r change. Ref s of Phillips 20 Engine Oil Coo Ill 12 Spark Plu	W50 X/C, Oil ler with New ligs with New ent out for 50	l filter P/N: AA P/N 658756 S P/N URHB32I	48108-2. /N A18-147 = Ref CMI S	31-28 Ref AMM Service Manual	79-20	ime. Replaced oil filter Service Manual. Ref Contour Aviation

SO#	19-26757		SILVERHAW	K AVIATION INC.		DATE	03/12/19
REG.	N189FG		Lincoln Munic	ipal Airport [LNK]		TACH	607.8
MAKE	Círrus	MODEL	SR22	SERIAL NO.	4378		

Certified Repair Station № FJTR920D

Maintenance Record

- 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.
- 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

Silverhawk Aviation, Inc. CRS# YQSR759U

Lincoln, NE 68524

SO#	19-27055		SILVERHAW	K AVIATION INC.		DATE	05/03/19
REG.	N189FG		Lincoln Munic	ipal Airport [LNK]		TACH	659.7
MAKE	Cirrus	MODEL	SR22	SERIAL NO.	4378	IAOII	000.1

Maintenance Record Engine

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.

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

Silverhawk Aviation, Inc. CRS# YQSR759U

Lincoln, NE 68524

Form CFM 007

Maintenance Record Corrected left and right magneto timing to 22° before top dead center cylinder #1. Ran for operational checks with no discrepance. Reference Continental Motors Standard Practices for Spark (grited Engines Maintenance Manus). Removed #1. Quilledr injector line worn bracket and clamp. Installed new bracket PRI 641559 and new clamp PN Removed #1. Quilledr injector line worn bracket and clamp. Installed new bracket PRI 641559 and new clamp PN Removed #2. An administration of Continental IO-550-N Maintenance and Overhaul Manusl. Chapter 17-11.4. Chapter 17-11.4. Removed #2. An administration of Continental IO-550-N Maintenance and Overhaul Manusl. Chapter 17-11.4. September 19-2436-1. Reference Continental IO-550-N Maintenance and Overhaul Manusl. Chapter 17-11.4. September 19-2436-1. Reference Continental IO-550-N Maintenance and Overhaul Manusl. Chapter 17-11.4. September 19-2436-1. Reference Continental IO-550-N Maintenance and Overhaul Manusl. Chapter 17-11.4. September 19-2436-1. Reference Continental IO-550-N Maintenance and Overhaul Manusl. Chapter 17-11.4. September 19-2439-1. Septem	REG. MAKE	N189FG		Lincoln Munici	pal Airport II NY	,	DATE	07/11/19
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 14.9.1. **Removed #1 cylinder injector line worn bracket and clamp. Installed new bracket PIN 641559 and new clamp PIN Removed #3 cylinder injector line worn bracket and clamp. Installed new bracket PIN 641559 and new clamp PIN Removed #3 cylinder injector line worn bracket and clamp. Installed new bracket PIN 641559 and new clamp PIN Removed #3 cylinder injector line worn bracket and clamp. Installed new bracket PIN 641559 and new clamp PIN 641551. **Removed #3 cylinder injector line worn bracket and clamp. Installed new bracket PIN 641559 and new clamp PIN 641551. **Removed #3 cylinder injector line worn bracket and clamp. Installed new bracket PIN 641559 and new clamp PIN 641551. **Removed #3 cylinder injector line worn bracket and clamp. Installed new bracket PIN 641559 and new clamp PIN 641551. **Removed #3 cylinder injector line worn bracket and clamp. Installed new bracket PIN 641559 and new clamp PIN 641559. **Removed #3 cylinder injector line worn bracket and clamp. Installed new bracket PIN 641559. **Removed #3 cylinder injector line worn bracket and clamp. Installed new bracket PIN 641559. **Removed #3 cylinder injector line worn bracket and clamp. Installed new bracket PIN 641559. **Removed #3 cylinder injector line worn bracket and clamp. Installed new bracket PIN 641559. **Removed #3 cylinder injector line worn bracket and clamp. Installed new bracket PIN 641559. **Removed #3 cylinder injector line worn bracket and clamp. Installed new Bracket PIN 641559. **Removed #3 cylinder injector line worn bracket and clamp. Installed new Alternator #1 mating gasket pin 6253981. No discrepancies noted at this time. Reference Cirrus SR22 Airplane Maintenance Manual. Chapter 12-10. **Maintenance Record** **Removed Bracket PIN 641559. **Removed Br		Cirrus	MODEL	SR22				688.5
Maintenance Record Complied with Annual Inspection. Ran aircraft for operational checks. Compressions: #1-67/80, #2-70/80, #3-78/80 71/80, #5-69/80, #6-70/80 MC= 44/80. Removed spark plugs and tested, cleaned, gapped, and rotated before reins Reference Cirrus SR22 Airplane Maintenance Manual, Chapter 5-20 and 5-30. Completed 50 hour oil change. Ran aircraft for aircraft for operations. Post inspection ran aircraft for leak checks with no leaks no Completed 50 hour oil change. Ran aircraft, drained engine oil. Removed oil filter and cut open for contamination c with none found, Installed new oil filter P/N CH48108-1 and serviced engine with 8 quarts of Phillips X/C 20w-50 oil aircraft for leak checks with none noted. Reference Cirrus SR22 Airplane Maintenance Manual, Chapter 12-10. ertify this (aircraft) (engine) (propeller) has been inspected in accordance with anAnnual_ Inspection as per 14 CFR 91.409 _(aX1) and was determined to the contamination of the c	discrept discrept Chapte Remove 652436 Secretify this manumber: 19-27 Signed Pennial Silverhawk Avalancoln, NE 66	Cirrus nance Record ted left and rig pancies. Reference 6-4.9.1. yed #1 cylinder 6-1. Reference 16-1. Reference 16-1. Reference 16-1. Reference 17534 Date: July 17534 Date: July 18524 19-27479 N189FG	th the magneto timing ence Continental injector line work to Continental IO-5 injector line work to Continental IO-5 injector and is detented and is detented and is detented to Continental IO-5 injector and III 2019.	g to 22° before top of Motors Standard Property of the Standard Propert	SERIAL NO. dead center cylinder ractices for Spark Ign D. Installed new brack and Overhaul Manual	#1. Ran for opera hited Engines Mair ket P/N 641559 ar al, Chapter 17-11. ket P/N 641559 a al, Chapter 17-11.	TACH ACTC tional checks on tenance Manual new clamp 4. nd new clamp 4. r the noted shop of the noted	688.5 812.8 with no ual, P/N
Maintenance Record Complied with Annual Inspection. Ran aircraft for operational checks. Compressions: #1-67/80, #2-70/80, #3-78/80, #5-70/80, #6-70/80 MC= 44/80. Removed spark plugs and tested, cleaned, gapped, and rotated before reins 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 c with none found, Installed new oil filter 9/N CH48/108-1 and serviced engine with 8 quarts of Phillips X/C 20w-50 diaircraft for leak checks with none noted. Reference Cirrus SR22 Airplane Maintenance Manual, Chapter 12-10. entify this (aircraft) (engine) (propeller) has been inspected in accordance with anAnnual_ Inspection as per 14 CFR 91.409(e)(1) and was determined in the condition. Dated: _July 11, 2019 W.O19-27479 Signed: _Scotty G. Long	- VIII	Andred d	ETT	688.5	ETSOH	The second second		812.8
Maintenance Record Removed leaking Alternator #1 mating gasket p/n 653981. Installed new Alternator #1 mating gasket 653981. No discrepancies noted at this time. Reference Cirrus SR22 Airplane Maintenance Manual Chapter 24-30. If this maintenance was inspected and is determined to be in an airworthy condition. Pertinent details are on file under the noted shop order per: 19-27737 Date: August 9, 2019. Bed: Benjamin A, Taylor		craft) (<u>engine</u>) (pr condition,	ropeller) has been in	a. Itelefelice Cilius	SR22 Airplane Mair	rith 8 quarts of Ph ntenance Manual,	illips X/C 20w- Chapter 12-1	-50 oil. Ran 0.
Maintenance Record Removed leaking Alternator #1 mating gasket p/n 653981. Installed new Alternator #1 mating gasket 653981. No discrepancies noted at this time. Reference Cirrus SR22 Airplane Maintenance Manual Chapter 24-30. Lifty this maintenance was inspected and is determined to be in an airworthy condition. Pertinent details are on file under the noted shop order ber: 19-27737 Date: August 9, 2019. Lifty this maintenance was inspected and is determined to be in an airworthy condition. Pertinent details are on file under the noted shop order ber: 19-27737 Date: August 9, 2019. Lifty this maintenance was inspected and is determined to be in an airworthy condition. Pertinent details are on file under the noted shop order ber: 19-27737 Date: August 9, 2019.	Dated: July Signed: Sox Silverhawk	craft) (engine) (pr condition. 11, 2019 W.O. 19 otty G. Long	9-27479	a. Itelefelice Cilius	SR22 Airplane Mair	rith 8 quarts of Ph ntenance Manual,	illips X/C 20w- Chapter 12-1	-50 oil. Ran 0.
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Maintenance Record Removed leaking Alternator #1 mating gasket p/n 653981. Installed new Alternator #1 mating gasket 653981. No discrepancies noted at this time. Reference Cirrus SR22 Airplane Maintenance Manual Chapter 24-30. Lify this maintenance was inspected and is determined to be in an airworthy condition. Pertinent details are on file under the noted shop order ber: 19-27737 Date: August 9, 2019. Led: Benjamin A. Taylor	Dated: July Signed: Sox Silverhawk , Lincoln, NE	craft) (engine) (procondition. 11, 2019 W.O. 11 otty G. Long Aviation Inc. CRS 68824	9-27479	SILVERHAWK	SR22 Airplane Mair with an Annual Inspecti	ith 8 quarts of Ph ntenance Manual, ion as per 14 CFR 91.4	DATE	-50 oil. Ran 0. ras determined to be
	Dated: July Signed: Scc Silverhawk / Lincoln, NE	craft) (engine) (procondition. 11, 2019 W.O. 11 otty G. Long Aviation Inc. CRS 68524	# YQSR759U	SILVERHAWK Lincoln Munici	SR22 Airplane Mair with an Annual Inspecti	of the squarts of Ph ntenance Manual, ion as per 14 CFR 91.4	DATE TACH	-50 oil. Ran 0.
	Dated: July Signed: Sox Silverhawk A Lincoln, NE D# EG. AKE Maintena Remove 653981, Chapter tify this maint ber: 19-2773; and Benjamin	19-27737 N189FG TCM And Exercise August To Jane CRS# 100, Inc. CRS	MODEL ternator #1 ma ancies noted at	SILVERHAWK Lincoln Munici 10-550-N68B ating gasket p/n 6 t this time. Reference with the control of the control	SR22 Airplane Mair with an Annual Inspection for SERIAL NO. 53981. Installed rence Cirrus SR22	of the squarts of Photenance Manual, ion as per 14 CFR 91.4 1032517 1032517 1032517	DATE TACH ACTC #1 mating gatenance Man	-50 oil. Ran 0. ras determined to be 08/9/19 727.6 asket p/n nual

				TO AMIATION INC		DATE	08/12/19
			SILVERHAM	K AVIATION INC	7	HOUR	858.9
SO#	19-27715	-		SERIAL NO.	1032517	ACTC	727.6
REG.	N189FG Continenta	MODEL	IO-550-N				
Chap Perfo discree 20W5 Manu I certify this I number: 19- Signed: Beni Silverhawk A Lincoln, NE	tenance Recordaircraft and adjuster 61-20. Immed engine grospancies noted a coll. Performed al, Chapter 12-1 Imaintenance was in 27715 Date: August amin A. Taylor	sted max RPM to sted max RPM to sted max RPM to stem the this time. Instem to the thing to the t	SILVERHAW Lincoln Muni	ted at this time. Ref	erence Cirrus SR2	2 Aircraft Mair	ntenance
REG.	CIRRUS	MODEL	SR22	SERIAL NO.			
	inspection will	screnancies no	oted at this time. Refe	-1N, S/N. NJ1362B. 75B see FAA form 8 engine crankshaft r Performed engine/pr erence the Cirrus SR Manual Section 15-7	, Appendix D and	TCM Service	Bulletin
2. certify this r number: 19-2	inspection with check with no dithe TCM IO-550 No. 96-11B. Inspected aircra KCBF direct KLI 10/24/2019. All 10/24/2019. All 20 Order No. 19-28 naintenance was insented aircra Cotob YG. Long	ft as required a NK in accordan applicable Airw. 183 for comples spected and is detected.	nance and Overhaul and determined that it use with Special Flight orthiness Directives bette details END	is in safe condition for the permit issued by the p	r, Appendix D and or intended one-ti e Lincoln, Nebras with. See Silverha	TCM Service me ferry flight ka FAA FSDC awk Aviation, I	Bulletin from on Inc. Shop
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CENTRAL DVIMBER SERVICE INC AIRCRAFT ENGINE REBUILDERS 1 ea Continental IO-550 N SAV: 1032517 Prop Strike Inspection This engine has been disassembled, inspected and repaired IAW Continental Prop Strike SB96-11B using listed parts under Wod 19060 Bendix Magnetos inspected for Propostrike Cylinders R & R Chiy Cranksham clean, NDT and dimensionally inspected. sent to AIC Spec for Ultra Sonio inspection per WO/257485 Crankcase clean, dye checked and dimensionally inspected. Misc. steel parts MPI under hidden damage in accordance with current recommended um 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		SIL VERHAWK	AVIATION INC		DATE	12/12/19
MAKE	TCM		Lincoln Municip	TATION INC.		HOBBS	950.9
	TOM	MODEL	IO-550-N68B	al Airport [LNK]		ACTT	0.008
			1 10 000-M08B	SERIAL NO.	1032517	AUT	

Maintenance Record Engine

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 Control On the Con Aircraft Maintenance Manual Chapter 71-00. See Central Cylinder FAA Form 8130-3 dated 12-3-2019. Removed and reinstalled prop governor model Capaba Removed Remove

 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 Reach Air 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. Removed and reinstalled #1 alternator P/N 650000 On 1500000 Propeller FAA Form 8130-3 dated 12-7-2019.

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 Paim Beach Aircraft Propeller FAA Form 8130-3 dated 11-1-2015.

Maintenance Manual Chapter 24-30, See Paim Beach Aircraft Propeller FAA Form 8130-3 dated 11-1-2015. 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 alrworthy 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

				•
Lincol	n,	NE	68524	ı

SO#	19-28389		SILVERHAWK	AVIATION INC.		DATE	12/13/19
REG.	N189FG	T	The same of the sa	al Airport [LNK]		HOBBS	950.9
MAKE	TCM	MODEL	IO-550-N68B	SERIAL NO.	1032517	ACTT	0.008

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

		Time Si	ncel set -	AVIATION INC.		DATE	02/25/20
SO#	20-28799		SILVERHAWK	AVIATION INC.		TACH	852.8
REG.	N189FG			pal Airport [LNK]	4378		
MAKE	Cirrus	MODEL	SR22	SERIAL NO.	4070		

I. Troubleshot 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. Troubleshot 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

Silverhawk Aviation, Inc. CRS# YQSR759U

Lincoln, NE 68524

	1		CII VERHAW	K AVIATION INC.		DATE	02/25/20
SO#	20-28799					TACH	852.8
REG.	N189FG	and the second of	Lincoln Munic	ipal Airport [LNK]		IAGII	002.0
MAKE	Cirrus	MODEL	SR22	SERIAL NO.	4378	urid as	

Maintenance Record

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

Silverhawk Aviation, Inc. CRS# YQSR759U

Lincoln, NE 68524

	20 20440		SILVERHAW	K AVIATION INC.		DATE	07/06/2020
SO#	20-29440		Lincoln Municipal Airport [LNK]				
REG.	N189FG						
MAKE	Cirrus	MODEL	SR22	SERIAL NO.	4378	Hobbs	1081.5

Maintenance Record Engine

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

I certify this r number: 20-2 Signed: Jorda	I do	spected and is determined by the spectrum of t	mined to be i	n an airworthy condition. Pertinent details are on file under the noted shop order , for
Silverhawk Av Lincoln, NE 6	viation, Inc. CRS# Y	QSR759U		

SO#	20-29403		SILVERHAWK AVIATION INC.					
REG.	N189FG		Lincoln Municipal Airport [LNK]					
MAKE	Cirrus	MODEL	SR22	SERIAL NO.	4378			

Maintenance Record Engine

 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

Silverhawk Aviation, Inc. CRS# YQSR759U

Lincoln, NE 68524

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

Maintenance Record Engine

- 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.
- 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.
- 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 <u>Annual</u> 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

Silverhawk Aviation Inc. CRS # YQSR759U Lincoln, NE 68524

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

Engine

 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

Scott VanArsdale for CRS# MGOR426G

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

Maintenance Record Airframe

- 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
- Troubleshot 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: <u>20-30031</u> Date: <u>October 19, 2020</u>,

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

SIGNED

	 17	
1 0 4 0 0 0		

SO#	21-31634		DATE	08/12/2			
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

and

ctives

Maintenance Engine Record

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.

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 alan inspection as per 14 CFR part 91.409 (a) (1) and was Dated August 12, 2021 W.O. 21-31634 Signed Silverhawk Aviation CRS # YQSR759U Lincoln, NE 68524

	21-31733		Silverha	wk Aviation		DATE	08/12/2021
SO#	N189FG		Lincoln Municipal Airport [LNK]			TACH	987.8
REG.	The state of the s	MODEL	IO-550-N	SERIAL NO.	1032517	HOBBS	1192.4
MAKE	TCM	MODEL	10 000 11			ACTT	987.8

Maintenance Record

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. Reinstalled 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 10-357586ARan 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

Silverhawk Aviation CRS# YQSR759U

Lincoln, NE 68524

Date: 11/02/21

N: 189FG

Make: TCM IO-550-N

Flt. Hrs.: 1016.3

S/N: 1032517

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. 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

Date: 12/22/21 N: 189FG Make: TCM IO-550-N Eng. Hrs.: 1041.1 S/N: 1032517 Flt. Hrs.: 1040.6 Changed engine oil & filter. Checked old filter for contamination, no debris noted. Serviced engine with Phillips 20W50 X/C oil. Performed differential compression check, results as follows; Master orifice reading 45 psi, #1-72/80, #2-75/60, #3-76/80, #4-74/80, #5-73/80, #6-78/80. Performed visual inspection of engine for leaks & defects, none noted. Ground ran engine for operational & leak check, all functions within normal parameters at this time. Engine returned to service for the work performed. W.O. 21-130 Daniel L. Ingram A&P3014106 Holdrege Aviation, LLC. 1320 Brewster Road Holdrege NE 68949