

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:09/26/2018

Test Date:09/25/2018

This engine model I0550N68B, serial number 1036520 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.

Thomas Howard

CONTINENTAL MOTORS, INC.

Form 6012-03 (Rev Sept 2014)

Warranty

This part (part number and serial number indicated below) is conditionally guaranteed to be free from defect in material and workmanship for three years from date of purchase. If any defect in materials or workmanship causes or contributes to this part not functioning properly, Tanis Aircraft Products will honor the warranty in the following manner:

- Contact Tanis Aircraft Products and provide information regarding the part's failure to perform and to receive a RMA form and return instructions.
- Provide the part number and serial number of the product.
- Tanis Aircraft Products will replace the defective part or parts, but will not be responsible for removal, reinstallation, or shipping of said part or parts.

Conditions of the warranty:

- Part must be properly installed and signed off by a licensed A&P or equivalent.
- Part cannot be altered, converted, modified, repaired, neglected or used in any way not recommended by Tanis Aircraft Products.
- Damage to component caused by improper installation or removal from aircraft is expressly not covered by this warranty.
- Warranty card must have been properly completed, signed by purchaser, and installing mechanic within 60 days of the date of purchase.
- Ship product PREPAID to Tanis Aircraft Products facility.

Return Product to:

Tanis Aircraft Products
18781 County Rd 22
Glenwood, MN 56334
Phone: 1-952-224-4425

WWW.TANISAIRCRAFT.COM

Part number: TSFSR22-3052-115

Serial number: 53209

Retain this section with aircraft documents

Part number TSFSR22-3052-115 Serial number 53209

I have read the warranty of Tanis Aircraft Products, concerning this product, I understand and agree to the terms stated therein. To be valid this card must be mailed and postmarked within 60 days of date of purchase, signed by owner and installing mechanic.

Owner's Name: _____ Date Installed: _____
Owner's Address: _____ Aircraft Make: _____
_____ Aircraft Model: _____
_____ Aircraft Serial: _____
Owner's email _____ A/C Time in Service: _____
Owner's Phone Number: _____ A/C Registration number: _____
Technician Name: _____ Engine Make: _____
Technician Cert. #: _____ Engine Model: _____
Technician Signature: _____ Engine Serial #: _____
Installing Authority: _____ Engine Time in Service: _____

** Warranty card may also be faxed (952-224-4426) or scanned and emailed to info@tanisaircraft.com.*



Continental Motors

Engine Component Information Sheet

Printed: 09/26/2018

Serial: 1036520

Assembled: 09/21/2018

Spec: I0550N68B

Shipped: / /

New/Rebuilt: (NEW)

Packed: 09/26/2018

Customer Name: CIRRUS DESIGN CORPORATION

Shipping Address: DULUTH INTERNATIONAL AIRP

Component	Serial Number	Component	Serial Number
CAMSHAFT	402722	OIL COOLER	G18-14781-389
CRANKSHAFT	N18GA023	CYLINDER-1	AC18FA555
CRANKCASE	R18GA015	CYLINDER - 2	AC18GA794
CONNROD	AE18GA313	CYLINDER - 3	AC18HA444
CONNROD	AE18GA316	CYLINDER - 4	AC18HA878
CONNROD	AE18GA277	CYLINDER - 5	AC18FA565
CONNROD	AE18GA320	CYLINDER - 6	AC18FA543
CONNROD	AE18GA304	NOZZLE - 1	1234
CONNROD	AE18GA303	NOZZLE - 2	2234
L MAGNETO	D18HA138	NOZZLE - 3	3239
R MAGNETO	D18HA128	NOZZLE - 4	4236
FUEL PUMP	B18HA005	NOZZLE - 5	5236
MANIFOLD VALVE	C18HA010	NOZZLE - 6	6229
METERING UNIT	A18HA247		
STARTER	H-S07523		
ALTERNATOR	H-S072979		



Pack Inspection Stamp

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

Engine Model	IO-550N68B
Serial#	1036520
Test Document	TH-3215 Rev K
Software/Form Release#	2.03, 05/12/17
Start Time	9/25/2018, 09:20:23
Accepted Time	9/25/2018, 11:49:03
Cell# & Operator	5, 30683
Sea Level Power	310 HP @ 2700 Prop RPM
Vapor Pressure	0.87 in HG
Temp, Wet Baro	81.28 F, 30.07 in HG



Continental Motors

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

Test Club#	D2258A
Rqrd Pitch	20+-5
Actual Pitch	20
Mixture Check	Pass
Alternator Check	

Mag Data	Required	Actual
Eng Speed Both	2100	2096
Eng Speed Right	N/A	2042
Right Mag Drop	150	54
Eng Speed Left	N/A	2055
Left Mag Drop	150	41
Mag Drop Spread	50	13
Fuel Flow (Ref.)	62	63

Note: Magneto check between Run 2 & 3

Run Information	Run 1	Run 2	Run 3	Run 4	Run 5	Run 6	Run 7	Run 8
Time Of Day	09:25:15	09:26:26	09:29:28	10:01:18	10:11:50	10:26:39	10:32:33	11:39:09
Run Time Rqd (MM:SS)	01:00	01:00	01:00	10:00	10:00	01:00	10:00	05:00
Run Time	01:00	01:00	01:00	10:00	10:00	02:07	10:00	05:00
Prop Speed Rqd (RPM)	1175-1225	1575-1625	2425-2475	2736-2786	2504-2529	575-625	2493-2518	2499-2524
Prop Speed	1206	1600	2448	2779	2516	625	2507	2510
Manifold Press Rqd (inHg)	N/A	N/A	N/A	26.2-29.2	N/A	18.5 MAX	N/A	N/A
Manifold Press	11.2	14.3	22.3	27.9	23.0	12.2	22.6	22.8
Turbo Dis Press Rqd (inHg)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Turbo Dis Press	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1
Fuel Flow Rqd (lb/hr)	N/A	N/A	N/A	154.7-164.7	108.5-124.5	N/A	N/A	N/A
Fuel Flow	17.6	30.6	97.0	160.1	110.9	7.0	108.2	109.5
Nozzle Press Rqd (PSID)	N/A	N/A	N/A	21.1-21.7	12.0-13.2	N/A	N/A	N/A
Nozzle Press	4.4	5.1	11.4	21.7	13.1	3.7	12.9	13.1
Fuel Pump Press Rqd (PSIG)	N/A	N/A	N/A	30.0 REF	N/A	8.0-10.0	N/A	N/A
Fuel Pump Press	12.6	16.5	26.9	31.3	30.2	8.6	30.4	30.2
Fuel Temp Rqd (°F)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Fuel Temp	69	68	65	67	71	69	66	65
Ambient Temp Rqd (°F)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Ambient Temp	84	83	86	89	93	86	89	91
Eng Inlet Oil Temp Rqd (°F)	90-240	120-240	165-240	180-240	165-240	140-240	165-240	165-240
Eng Inlet Oil Temp	147	158	178	200	208	197	177	168
Eng Oil Press Rqd (PSIG)	30.0 MIN	30.0 MIN	30.0 MIN	42.9-53.9	30.0 MIN	13.1 MIN	30.0 MIN	30.0 MIN
Eng Oil Press	46.4	48.5	52.5	48.0	44.3	22.6	52.6	55.6
Min Cylinder Temp Rqd (°F)	150 MIN	175 MIN	250 MIN	250 MIN	250 MIN	N/A	250 MIN	250 MIN
Max Cylinder Temp Rqd (°F)	460 MAX	460 MAX	460 MAX	460 MAX	460 MAX	460 MAX	460 MAX	460 MAX
Cylinder 1 Temp	258	263	312	373	382	262	295	286
Cylinder 2 Temp	293	292	354	418	419	261	339	337
Cylinder 3 Temp	251	246	302	349	349	251	304	291
Cylinder 4 Temp	253	258	303	351	359	241	288	279
Cylinder 5 Temp	259	256	307	354	352	223	296	292
Cylinder 6 Temp	216	213	257	283	286	186	250	250
Collar Press Differential Rqd (PSID)	N/A	N/A	N/A	13.2 MAX	N/A	N/A	N/A	N/A
Collar Press Differential	0.1	0.1	0.1	-0.1	-0.2	-0.3	-0.1	0.0



Engine Log



Aircraft Registration Number: _____

Aircraft Serial Number _____

Date	Total Time in Service	Total Time Since Overhaul	Tach or recording Meter Time	Description of work performed Signature and Certificate Number of Person Performing Work
				TOTALS brought Forward from Previous Page

DEBLOIS AEROSPACE LLC 7940 AIRPARK ROAD GAITHERSBURG MD 20879 (301)-641-4657

MAKE: CONTINENTAL **N181MC** **FLIGHT: 22.9 HR**
MODEL: IO-550-H68 **HOBBS: 29.7 HR**
SERIAL #: 1036520

DRAINED OIL AND TOOK OIL SAMPLE. INSTALLED A NEW AA48108-2 OIL FILTER. ADDED 7 QTS OF PHILLIPS 20W50. PERFORMED ENGINE RUN-UP TO LEAK CHECK. NO LEAKS DETECTED.

All work was accomplished in accordance with current Federal Aviation Regulations and manufacturer's maintenance instructions. Details of work performed are on file at Deblois Aerospace LLC Company under work order 1431.

Signature: *Lena Gafney* Certificate #: 3811092 A&P/IA Date: 12/12/2018
Lena Gafney

DEBLOIS AEROSPACE LLC 7940 AIRPARK ROAD GAITHERSBURG MD 20879 (301)-641-4657

MAKE: CONTINENTAL **N181MC** **FLIGHT: 69.2 HR**
MODEL: IO-550-H68 **HOBBS: 85.7 HR**
SERIAL #: 1036520

DRAINED OIL AND TOOK OIL SAMPLE. INSTALLED A NEW AA48108-2 OIL FILTER. ADDED 7 QTS OF PHILLIPS 20W50. PERFORMED ENGINE RUN-UP TO LEAK CHECK. NO LEAKS DETECTED.

All work was accomplished in accordance with current Federal Aviation Regulations and manufacturer's maintenance instructions. Details of work performed are on file at Deblois Aerospace LLC Company under work order 1469.

Signature: *Lena Gafney* Certificate #: 3811092 A&P/IA Date: 01/08/2019
Lena Gafney

				SUB-TOTALS this Page
				TOTALS-Carry forward to next page





Engine Log



Aircraft Registration Number: _____

Aircraft Serial Number _____

Date	Total Time in Service	Total Time Since Overhaul	Tach or recording Meter Time	Description of work performed Signature and Certificate Number of Person Performing Work
				<p>AvDyne AeroServices, LLC MAKE: Cirrus MODEL: SR22 SERIAL NO.: 4720 REGISTRATION NO.: N181MC</p> <p style="text-align: right;"><i>20FL</i></p> <p>DATE: 03/11/19 WORKORDER: 19-03-001 TOTAL TIME: 128.1 TACH TIME: 106.8 TSN TIME: 106.8</p> <p>8. Spark plugs removed, cleaned, inspected, gapped, and tested. Reinstalled plugs with new gaskets P/N: M674. 9. Removed, cleaned and reinstalled fuel injectors IAW Cirrus Maintenance Manual. 10. Adjusted LH exhaust ball joint tension IAW Cirrus M/M. 11. Engine washed. 12. Ground run engine. Operating parameters normal. Leak check okay. //END//</p> <p>This aircraft and or component identified above was repaired and inspected in accordance with current manufacturers maintenance manuals and was found airworthy for return to service. Pertinent details of the repair are on file at agency under Work Order No.: 19-03-001 Date: 03/11/19 Signed:  For AvDyne AeroServices LLC CRS #Y7NR985Y</p>
				<p>DEBLOIS AEROSPACE LLC 7940 AIRPARK ROAD GAITHERSBURG MD 20879 (301)-641-4657</p> <p>MAKE: CONTINENTAL MODEL: IO-550-H68 SERIAL #: 1036520</p> <p style="text-align: right;">N181MC FLIGHT: 155.1 HR HOBBS: 188.8 HR</p> <p>----- DRAINED OIL AND TOOK OIL SAMPLE. INSTALLED A NEW AA48108-2 OIL FILTER. ADDED 7 QTS OF PHILLIPS 20W50. PERFORMED ENGINE RUN-UP TO LEAK CHECK. NO LEAKS DETECTED.</p> <p>All work was accomplished in accordance with current Federal Aviation Regulations and manufacturer's maintenance instructions. Details of work performed are on file at Deblois Aerospace LLC Company under work order 1582.</p> <p>Signature:  Certificate #: 3811092 A&P/IA Date: 05/02/2019</p>
				<p>SUB-TOTALS this Page</p> <p>TOTALS-Carry forward to next page</p>


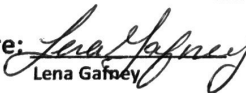


Engine Log



Aircraft Registration Number: _____

Aircraft Serial Number _____

Date	Total Time in Service	Total Time Since Overhaul	Tach or recording Meter Time	Description of work performed Signature and Certificate Number of Person Performing Work
				<p style="text-align: right;"><u>2012</u></p> <p>AvDyne AeroServices, LLC MAKE: Cirrus MODEL: SR22 SERIAL NO.: 4720 REGISTRATION NO.: N181MC</p> <p style="text-align: right;">DATE: 07/02/19 WORKORDER: 19-06-012 A/C TOTAL TIME: 264.9 TACH TIME: 217.6 TSN TIME: 217.6</p> <p>8. Spark plugs removed, cleaned, inspected, gapped, and tested. Reinstalled plugs with new gaskets P/N: M674. 9. Adjusted LH & RH exhaust ball joint tensions IAW Cirrus maintenance manual. 10. Engine washed. 11. Ground run engine. Operation normal. Leak check okay. //END//////////////////////////////////////</p> <p>This aircraft and or component identified above was repaired and inspected in accordance with current manufacturers maintenance manuals and was found airworthy for return to service. Pertinent details of the repair are on file at agency under Work Order No.: 19-06-012 Date: 07/02/19 Signed:  For AvDyne AeroServices LLC CRS #Y7NR985Y</p>
				<p>DEBLOIS AEROSPACE LLC 7940 AIRPARK ROAD GAITHERSBURG MD 20879 (301)-641-4657</p> <p>MAKE: CONTINENTAL N181MC FLIGHT: 297.8 HR MODEL: IO-550-H68 HOBBS: 359.2 HR SERIAL #: 1036520</p> <p>-----</p> <p>DRAINED OIL AND TOOK OIL SAMPLE. INSTALLED A NEW AA48108-2 OIL FILTER. ADDED 7 QTS OF PHILLIPS 20W50. PERFORMED ENGINE RUN-UP TO LEAK CHECK. NO LEAKS DETECTED.</p> <p>All work was accomplished in accordance with current Federal Aviation Regulations and manufacturer's maintenance instructions. Details of work performed are on file at Deblois Aerospace LLC Company under work order 1763.</p> <p>Signature:  Certificate #: 3811092 A&P/IA Date: 09/26/2019</p>
				<p>SUB-TOTALS this Page</p>
				<p>TOTALS-Carry forward to next page</p>

AvDyne AeroServices, LLC

10F2

MAKE: Cirrus
MODEL: SR22
SERIAL NO.: 4720
REGISTRATION NO.: N181MC

DATE: 10/21/19
WORKORDER: 19-10-005
A/C TOTAL TIME: 381.7
TACH TIME: 316.4
TSN TIME: 316.4

1. Completed 100 hour/Annual inspection and 300 hour inspection items on engine in accordance with Cirrus Maintenance Manual. Engine model: TCM IO550N68B; S/N: 1036520
2. AD research completed using the FAA web-site dated Oct 15, 2019.
3. Compression checked #1-76/80, #2-74/80, #3-74/80, #4-72/80, #5-72/80, #6-74/80.
4. Drained oil, oil sample taken.
5. Removed oil filter and cut open, no metal found.
6. Installed new filter P/N: AA48108-2, torqued and safetied.

This aircraft and or component identified above was repaired and inspected in accordance with current manufacturers maintenance manuals and was found airworthy for return to service. Pertinent details of the repair are on file at agency under Work Order No.: 19-10-005, Date: 10/21/19.

Signed: 
For AvDyne AeroServices LLC CRS #Y7NR985Y

AvDyne AeroServices, LLC

20F2

MAKE: Cirrus
MODEL: SR22
SERIAL NO.: 4720
REGISTRATION NO.: N181MC

DATE: 10/21/19
WORKORDER: 19-10-005
A/C TOTAL TIME: 381.7
TACH TIME: 316.4
TSN TIME: 316.4

7. Serviced with 8qts of Phillips 20W50 oil.
8. Spark plugs removed, cleaned, inspected, gapped, and tested. Reinstalled plugs with new gaskets P/N: M674.
9. Remove fuel injectors. Cleaned, inspected, and reinstalled with new seals P/N: 630979-9, 640612, X1473, and 628556 IAW Cirrus maintenance manual. Leak checked Okay.
10. Engine washed.
11. Ground run engine. Operation normal. Leak check okay.

////////////////////////////////////END////////////////////////////////////

This aircraft and or component identified above was repaired and inspected in accordance with current manufacturers maintenance manuals and was found airworthy for return to service. Pertinent details of the repair are on file at agency under Work Order No.: 19-10-005, Date: 10/21/19.

Signed: 
For AvDyne AeroServices LLC CRS #Y7NR985Y

AvDyne AeroServices, LLC

20FZ

MAKE: Cirrus
MODEL: SR22
SERIAL NO.: 4720
REGISTRATION NO.: N181MC

DATE: 05/01/2020
WORKORDER: 20-04-004
A/C TOTAL TIME: 493.6
TACH TIME: 409.1
TSN TIME: 0.0

- 7. Serviced engine with 8qts of Phillips 20W50 oil.
 - 8. Spark plugs removed, cleaned, inspected, gapped, and tested. Reinstalled plugs with new gaskets P/N: M674.
 - 9. Replaced #1 cylinder exhaust pipe with new pipe P/N: 15080-001; gasket P/N: 652458, and associated hardware IAW Cirrus maintenance manual. Leak checked Okay.
 - 10. Ground run engine. Engine operating parameters normal. Leak checked okay.
- //////////////////////////////////////END//////////////////////////////////////

This aircraft and or component identified above was repaired and inspected in accordance with current manufacturers maintenance manuals and was found airworthy for return to service. Pertinent details of the repair are on file at agency under Work Order No.: 20-04-004, Date: 05/01/2020.

Signed: 
For AvDyne AeroServices LLC CRS #Y7NR985Y

AvDyne AeroServices, LLC

MAKE: Cirrus
MODEL: SR22
SERIAL NO.: 4720
REGISTRATION NO.: N181MC

DATE: 08/17/2020
WORKORDER: 20-08-006
A/C TOTAL TIME: 556.0
TACH TIME: 460.3
TSN TIME: 460.3

- 1. Drained oil, oil sample taken.
 - 2. Removed oil filter and cut open, no metal found.
 - 3. Installed new filter P/N: AA48108-2, torqued and safetied.
 - 4. Serviced with 8qts of Phillips 20W50 oil.
 - 5. Ground run engine. Leak check okay.
- //////////////////////////////////////END//////////////////////////////////////

This aircraft and or component identified above was repaired and inspected in accordance with current manufacturers maintenance manuals and was found airworthy for return to service. Pertinent details of the repair are on file at agency under Work Order No.: 20-08-006, Date: 08/17/2020.

Signed: 
For AvDyne AeroServices LLC CRS #Y7NR985Y

AvDyne AeroServices, LLC

MAKE: Cirrus
MODEL: SR22
SERIAL NO.: 4720
REGISTRATION NO.: N181MC

DATE: 10/06/2020
WORKORDER: 20-09-013
A/C TOTAL TIME: 603.4
TACH TIME: 499.7
TSN TIME: 0.0

11. Complied with 500 hour inspection of # 2 alternator IAW Hartzell maintenance manual ES1031. Replaced brushes P/N: ALE-2013AS. Reinstalled # 2 alternator IAW Cirrus maintenance manual.

12. AD 2020-16-11, amend 39-21195 dated Sept. 21, 2020, crossflow cylinders. Previously complied with by Cirrus Mandatory Service Bulletin SB 2X-71-33 on Jan. 9, 2020, Tach 370.5.

13. Ground run engine. Engine operating parameters normal. Leak checked okay.
////////////////////////////////////END////////////////////////////////////

This aircraft and or component identified above was repaired and inspected in accordance with current manufacturers maintenance manuals and was found airworthy for return to service. Pertinent details of the repair are on file at agency under Work Order No.: 20-09-013, Date: 10/06/2020.

Signed: 
For AvDyne AeroServices LLC CRS #Y7NR985Y

AvDyne AeroServices, LLC

MAKE: Cirrus
MODEL: SR22
SERIAL NO.: 4720
REGISTRATION NO.: N181MC

DATE: 11/23/2020
WORKORDER: 20-11-016
A/C TOTAL TIME: 663.3
TACH TIME: 549.8
TSN TIME: 0.0

1. Ground run engine to normal operating temperature.
 2. Cowling removed. Drained oil, oil sample taken.
 3. Removed oil filter and cut opened, no metal found.
 4. Installed new filter P/N: AA48108-2, torqued and safetied.
 5. Serviced with 8qts of Phillips 20W50 oil.
 6. Ground run engine. Leak check okay. Installed cowling.
- ////////////////////////////////////END////////////////////////////////////

This aircraft and or component identified above was repaired and inspected in accordance with current manufacturers maintenance manuals and was found airworthy for return to service. Pertinent details of the repair are on file at agency under Work Order No.: 20-11-016, Date: 11/23/2020.

Signed: 
For AvDyne AeroServices LLC CRS #Y7NR985Y

Engine Log

Aircraft Registration Number: _____

Aircraft Serial Number _____

Date	Total Time in Service	Total Time Since Overhaul	Tach or recording Meter Time	Description of work performed Signature and Certificate Number of Person Performing Work
TOTALS brought Forward from Previous Page				

ENGINE MODEL: IO-550-N
ENGINE S/N: 1036520
REG NO: N181MC
WORK ORDER: 0455-02-2021



1005 Sycolin Road Suite 106
Leesburg, VA 20175
Phone: 703-443-4739

DATE: 2/9/2021
A/C TSN: 590.4
ENG TT: 590.4
HOBBS: 718.5

Engine Entries

(2) Performed Annual Engine inspection IAW FAR 43 Appendix D and Cirrus AMM Chpt. 5-20. Performed Compression check: 1) 77/80 2) 75/80 3) 76/80 4) 76/80 5) 79/80 6) 78/80. Drained engine oil and collected oil sample. Removed oil filter and inspected, no metal found. Installed new oil filter P/N: CH48108-1 and serviced with 7 quarts of Phillips 20W50XC. Checked engine controls for proper operation, travel, and rigging. Cleaned fuel injection nozzles and reinstalled IAW 73-00-01. Checked magneto timing. Performed ground run, leak check ok at this time. ADs searched through 02/09/2021.
(6) Replaced all (12) spark plugs with new P/N RHB32E torqued to 35 ft/lbs.
(7) Removed cyl#4 rocker cover, cleaned surface. Installed rocker cover with new gasket (1) P/N 07-20701 IAW Cirrus MM, torqued to 60 inch lbs. Leak check ok at this time.

Maintenance Release

The aircraft and/or component(s) on N181MC was repaired and inspected in accordance with current FARs rules of the Federal Aviation Regulations and was found Airworthy for return to service. Pertinent details of this maintenance are on file at our facility under the above work/service order number as applicable.

DATE: 2/9/2021

SIGNED: _____

Dustin Heffner, A&P: 3784018

Work Order: 0455-02-2021

Printed by EBis 3 (datcomedia.com)

ENGINE MODEL: IO-550-N (68)
ENGINE S/N: 1036520
REG NO: N181MC
WORK ORDER: 0518-03-2021



1005 Sycolin Road Suite 106
Leesburg, VA 20175
Phone: 703-443-4739

DATE: 3/12/2021
A/C TSN: 777
ENG TT:
TACH: 638.8

Engine Entries

(1) Ran up aircraft to warm oil and removed cowling. Drained engine oil, collected oil sample, removed oil filter and inspected, no metal found at this time. Installed new oil filter CH48108-1 and safety wired, serviced engine with 7 quarts of Phillips XC 20W50. Reinstalled cowling and ran up aircraft. Leak check ok at this time.

Maintenance Release

The aircraft and/or component(s) on N181MC was repaired and inspected in accordance with current FARs rules of the Federal Aviation Regulations and was found Airworthy for return to service. Pertinent details of this maintenance are on file at our facility under the above work/service order number as applicable.

DATE: 3/12/2021

SIGNED: _____

David Ponce-Mexicano, A&P: 4066904

Work Order: 0518-03-2021

Printed by EBis 3 (datcomedia.com)

ENGINE MODEL: IO-550-N (68)
ENGINE S/N: 1036520
REG NO: N181MC
WORK ORDER: 0595-04-2021



1005 Sycolin Road Suite 106
Leesburg, VA 20175
Phone: 703-443-4739

DATE: 4/23/2021
A/C TSN: 850.9
ENG TT: 697.6
TACH: 697.6

Engine Entries

(2) Performed 100HR Engine inspection IAW FAR 43 Appendix D and Cirrus AMM Chpt. 5-20. Performed Compression check: 1) 66/80 2) 62/80 3) 58/80 4) 63/80 5) 62/80 6) 70/80. Drained engine oil and collected oil sample. Removed oil filter and inspected, no metal found. Installed and safety wired new oil filter P/N: CH48108-1. Removed spark plugs; cleaned, inspected, gapped, tested, rotated and reinstalled to 35 ft/lbs with new gaskets. Checked engine controls for proper operation, travel, and rigging. Removed and cleaned fuel injection nozzles and reinstalled IAW 73-00-01. Checked magneto timing.
(5) Upon inspecting engine, cylinder no. 3 was found to have a crack from top spark plug hole to intake valve seat. Removed exhaust assembly, baffling, ignition/heater leads, fuel lines, etc. to remove cylinder. Installed new cylinder & valve assy P/N: 658815A2, S/N: AC21BA619 IAW Continental IO-550 Standard Practice Maintenance Manual 10-6.1.2 & 10-6.1.3. Reinstalled baffling, exhaust assy., ignition/heater leads, fuel lines, etc. Serviced engine with 7 quarts of Phillips 20W50 Type M mineral oil. Ran up engine, performed magneto drop check and high power run. Ops and leak check ok at this time.

Maintenance Release

The aircraft and/or component(s) on N181MC was repaired and inspected in accordance with current FARs rules of the Federal Aviation Regulations and was found Airworthy for return to service. Pertinent details of this maintenance are on file at our facility under the above work/service order number as applicable.

DATE: 4/23/2021

SIGNED: _____

David Ponce-Mexicano, A&P: 4066904

Work Order: 0595-04-2021

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ENGINE MODEL: IO-550-N (68)
ENGINE S/N: 1036520
REG. NO: N181MC
WORK ORDER: 0642-05-2021



1005 Sycolin Road Suite 106
Leesburg, VA 20175
Phone: 703-443-4739

DATE: 5/6/2021
A/C TSN: 879
ENG TT: 719
TACH: 719

Engine Entries

(1) Ran up aircraft to warm oil and removed cowling. Drained engine oil, collected Blackstone oil sample, removed oil filter and inspected, no metal found at this time. Installed new oil filter P/N: CH48108-1 and safety wired, serviced engine with 7 quarts of Phillips XC 20W50. Reinstalled cowling and ran up aircraft. Leak check ok at this time.

Maintenance Release

The aircraft and/or component(s) on N181MC was repaired and inspected in accordance with current FARs rules of the Federal Aviation Regulations and was found Airworthy for return to service. Pertinent details of this maintenance are on file at our facility under the above work/service order number as applicable.

DATE: 5/6/2021

SIGNED:

David Ponce-Mexicano, A&P: 4066904

Work Order: 0642-05-2021

Printed by EBis 3 (datcomedia.com)

ENGINE MODEL: IO-550-N (68)
ENGINE S/N: 1036520
REG. NO: N181MC
WORK ORDER: 0745-06-2021



1005 Sycolin Road Suite 106
Leesburg, VA 20175
Phone: 703-443-4739

DATE: 6/17/2021
A/C TSN: 946
ENG TT: 766.3
FLIGHTTIME: 766.3

Engine Entries

(1) Ran up aircraft to warm oil and removed cowling. Drained engine oil, collected Blackstone oil sample, removed oil filter and inspected, no metal found at this time. Installed new oil filter P/N: CH48108-1 and safety wired, serviced engine with 7 quarts of Phillips XC 20W50. Reinstalled cowling and ran up aircraft. Leak check ok at this time.

Maintenance Release

The aircraft and/or component(s) on N181MC was repaired and inspected in accordance with current FARs rules of the Federal Aviation Regulations and was found Airworthy for return to service. Pertinent details of this maintenance are on file at our facility under the above work/service order number as applicable.

DATE: 6/17/2021

SIGNED:

David Ponce-Mexicano, A&P: 4066904

Work Order: 0745-06-2021

Printed by EBis 3 (datcomedia.com)

ENGINE MODEL: IO-550-N (68)
ENGINE S/N: 1036520
REG. NO: N181MC
WORK ORDER: 0805-07-2021



1005 Sycolin Road Suite 106
Leesburg, VA 20175
Phone: 703-443-4739

DATE: 7/16/2021
A/C TSN: 998.3
ENG TT: 804.4
FLIGHTTIME: 804.4

Engine Entries

(2) Performed 100HR Engine inspection IAW FAR 43 Appendix D and Cirrus AMM Chpt. 5-20. Removed cowling and inspected. Performed Compression check: 1) 64/80 2) 61/80 3) 73/80 4) 60/80 5) 64/80 6) 66/80; Master Orifice @ 42psi. Drained engine oil and collected Blackstone oil sample. Removed oil filter and inspected, no metal found. Installed and safety wired new oil filter P/N: CH48108-1 and serviced with 7 quarts of Phillips XC 20W50. Removed spark plugs; cleaned, inspected, gapped, tested, rotated and reinstalled to 35 ft/lbs with new gaskets. Checked engine controls for proper operation, travel, and rigging. Checked magneto timing, within limits. Reinstalled cowling. Performed ground run, leak check ok at this time. ADs searched on ATP through 7/16/2021.
(6) Applied red Dowsil 736 RTV to cylinder #3 fuel injection line to prevent further chafing on induction manifold.
(7) Stop drilled cracks found baffling on both LH and RH side of engine.

I certify this Engine has been inspected IAW with a 100 Hour Inspection and was found to be in Airworthy Condition.

Maintenance Release

The aircraft and/or component(s) on N181MC was repaired and inspected in accordance with current FARs rules of the Federal Aviation Regulations and was found Airworthy for return to service. Pertinent details of this maintenance are on file at our facility under the above work/service order number as applicable.

DATE: 7/16/2021

SIGNED:

David Ponce-Mexicano, A&P: 4066904

Work Order: 0805-07-2021

Printed by EBis 3 (datcomedia.com)

ENGINE MODEL: IO-550-N (68)
ENGINE S/N: 1036520
REG. NO: N181MC
WORK ORDER: 1055



1005 Sycolin Road Suite 106
Leesburg, VA 20175
Phone: 703-443-4739

DATE: 8/16/2021
A/C TSN:
ENG TT: 852
FLIGHTTIME: 852

Engine Entries

Ran up aircraft to warm oil and removed cowling. Drained engine oil, collected Blackstone oil sample, removed oil filter and inspected, no metal found at this time. Installed new oil filter P/N: CH48108-1 and safety wired, serviced engine with 7 quarts of Phillips XC 20W50. Reinstalled cowling and ran up aircraft. Leak check ok at this time.

Maintenance Release

The aircraft and/or component(s) on N181MC was repaired and inspected in accordance with current FARs rules of the Federal Aviation Regulations and was found Airworthy for return to service. Pertinent details of this maintenance are on file at our facility under the above work/service order number as applicable.

DATE: 8/16/2021

SIGNED:

David Ponce-Mexicano, A&P: 4066904

Work Order: 1055

Printed by EBis 3 (datcomedia.com)

Engine Log

Aircraft Registration Number: _____

Aircraft Serial Number _____

Date	Total Time in Service	Total Time Since Overhaul	Tach or recording Meter Time	Description of work performed Signature and Certificate Number of Person Performing Work
<p>ENGINE MODEL: IO-550-N (68) ENGINE S/N: 1036520 REG NO: N181MC WORK ORDER: 1174</p> <p>1005 Sycolin Road Suite 106 Leesburg, VA 20175 Phone: 703-443-4739</p> <p>DATE: 10/8/2021 A/C TSN: 1132.7 ENG TT: 902.7 FLIGHTTIME: 902.7</p> <p>Engine Entries</p> <p>Performed 100HR Engine inspection IAW FAR 43 Appendix D and Cirrus AMM Chpt. 5-20. Removed cowling and inspected. Performed Compression check: 1) 62/80 2) 61/80 3) 63/80 4) 60/80 5) 63/80 6) 60/80; Master Orifice @ 40psi. Drained engine oil and collected Blackstone oil sample. Removed oil filter and inspected, no metal found. Installed and safety wired new oil filter P/N: CH48108-1 and serviced with 8 quarts of Phillips XC 20W50. Removed spark plugs; cleaned, inspected, gapped, tested, rotated, and reinstalled to 35 ft/lbs with new gaskets. Checked engine controls for proper operation, travel, and rigging. Checked magneto timing, within limits. Reinstalled cowling. Performed ground run, leak check ok at this time. ADs searched on ATP through 10/8/2021.</p> <p>I certify this Engine has been inspected IAW with a 100 Hour Inspection and was found to be in Airworthy Condition.</p> <p>Replaced #4, #5, & #6, bottom spark plugs with new. P/N: RHB32E IAW Cirrus MM.</p> <p>Maintenance Release</p> <p>The aircraft and/or component(s) on N181MC was repaired and inspected in accordance with current FARs rules of the Federal Aviation Regulations and was found Airworthy for return to service. Pertinent details of this maintenance are on file at our facility under the above work/service order number as applicable.</p> <p>DATE: 10/8/2021 SIGNED: <i>Paul Alexiou</i> Work Order: 1174 Paul Alexiou, A&P: 4401425 Printed by EBIS 3 (datcomedia.com)</p>				
<p>WEST West Aircraft Maintenance 280 Gardner Dr New Century KS 66031 19137024570</p> <p>Make: Cirrus Model: SR22 Tail: N181MC S/N: 4720</p> <p>Hours: Flight: 974.0</p> <p>Drained engine oil. Replaced oil filter p/n AA48108-2 and added 8 qts X/C 20W50 IAW Cirrus SR22 AMM. Ops/leak check completed.</p> <p>Signed: <i>Justin Pate</i> Name: Justin Pate Cert: Mechanic: 4391662 AP Date: 12/18/2021</p> <p>WEST West Aircraft Maintenance 280 Gardner Dr New Century KS 66031 19137024570</p> <p>Make: Continental Model: IO-550-N Tail: N181MC S/N: 1036520</p> <p>Hours: TACH: 1002.4 EngTT: 1002.4 SNEW: 1002.4</p> <p>Completed 100 hour inspection IAW FAR 43 Appendix D referencing Cirrus SR-22 AMM. No AD's found due. No MSB's found due. Drained engine oil, removed, cut open, and inspected engine oil filter element. Added 7 qts X/C20W50 and installed new engine oil filter p/n AA48108-2. Differential compression check as follows: 74, 72, 76, 79, 76, 78/80. Removed, cleaned, inspected, tested, replaced 1T p/n SHB32E, rotated top to bottom, and reinstalled spark plugs. Engine ops/leak check completed. I certify this engine has been inspected in accordance with a 100 hour inspection and determined to be in airworthy condition.</p> <p>Signed: <i>Justin Pate</i> Name: Justin Pate Cert: Mechanic: 4391662 AP Date: 01/14/2022</p>				
<p>WEST West Aircraft Maintenance 280 Gardner Dr New Century KS 66031 19137024570</p> <p>Make: Cirrus Model: SR22 Tail: N181MC S/N: 4720</p> <p>Hours: AC: 1081.5 TT: 1081.5 EngTT: 1081.5 PropTT: 1081.5 Hobbs: Misc:</p> <p>Performed 100 hour inspection IAW FAR 43 app. D using Cirrus SR22 AMM as guide. No AD's due at this time. Compressions 1:77 2:71 3:77 4:72 5:75 6:73 Drained oil, removed filter and cut open. No metal found, installed new filter P/N AA48108-2, serviced sump with 8qts of XC 20W50. I certify this engine has been inspected IAW a 100 HR inspection and has been determined to be in an airworthy condition.</p> <p>Signed: <i>Logan Baker</i> Name: Logan Baker Cert: Mechanic: 4638550 P Date: 06/03/2022</p>				

WEST West Aircraft Maintenance
280 Gardner Dr
New Century KS 66031
19137024570

Make: Cirrus
Model: SR22
Tail: N181MC
S/N: 4720

Hours: Tach: 1034.3 ETT: 1034.3

Performed an annual inspection IAW FAR 43 app. D and using SR22 AMM as guide. Compressions: (Taken after work below)
1: 71/80 2: 74/80 3: 76/80 4: 78/80 5: 72/80 6: 72/80. Removed #3 cylinder due to detonation. inspection for cause of detonation was conducted and was determined to be the fault of Broken ceramic on bottom spark plug on #3 cylinder. Drained oil and flushed engine with mineral spirits, sent oil filter for analysis, which yielded normal wear, and elevated chromium, most likely from #3 piston pin. Removed and replaced connecting rod assy' on #3 and #4 cylinders. p/n 655911, with bearings p/n 642398. Replaced #3 cyl. assy' p/n 658815A2BP S/N AC21KB013 and Piston Pin p/n SA630046. Replaced All 12 spark plugs p/n REM32E. replaced Gear assy' p/n AB-35786, contact assy' AB-38284, and distributor block assy' p/n AB357426 in RH and LH magnetos. Serviced sump with 7 qts. of A/S 100. no applicable AD's due. oil filter to be removed at 25 hrs. to inspect for metal. The following manuals were used with reference to the work performed above x42002 S-20/200 series magneto service support manual. Continental M-0 Standard practice and MM. Continental M-16 IO-550-N Engine MX and O/H manual. I certify this engine has been inspected IAW an annual inspection and has been determined to be in an airworthy condition.

Signed: 
Name: Adam Piepke

Cert: Mechanic: 3965513 AP
IA
Date: 03/24/2022

WEST West Aircraft Maintenance
280 Gardner Dr
New Century KS 66031
19137024570

Make: Cirrus
Model: SR22
Tail: N181MC
S/N: 4720

Hours: flight time:1055.9

Drained engine oil. Removed, cut open, and inspected engine oil filter for metal. Installed new engine oil filter p/n AA48108-2. Added 8 qts X/C 20W50. Performed Ops check.

Landon Reeder 

Signed: 
Name: Adam Piepke

Cert: Mechanic: 3965513 AP
IA
Date: 04/18/2022

WEST West Aircraft Maintenance
280 Gardner Dr
New Century KS 66031
19137024570

Make: Cirrus
Model: SR22
Tail: N181MC
S/N: 4720

Hours: AC: 1199.3 TT: 1199.3 EngTT: 1199.3 PropTT: 1199.3 Hobbs: Misc:

Performed 100 hour inspection IAW FAR 43 app D using Cirrus SR22 AMM as guide. No AD's due at this time. Compressions 1 77/80, 2 73/80, 3 79/80, 4 69/80, 5 69/80, 6 79/80. Master orifice reading 69. Drained engine oil, removed oil filter and cut open. No metal found. Installed new oil filter P/N AA48108-2. Added 8qts of Phillips66 XC 20W50. Installed new induction air filter P/N BA-24. I certify this engine has been inspected IAW a 100 HR inspection and has been determined to be in an airworthy condition.

Signed: 
Name: Adam Piepke


Cert: Mechanic: 3965513 AP
IA
Date: 08/10/2022

WEST West Aircraft Maintenance
280 Gardner Dr
New Century KS 66031
19137024570

Make: Cirrus
Model: SR22
Tail: N181MC
S/N: 4720

Hours: AC: TT: 1293.8 EngTT: PropTT: Hobbs: Misc:

Removed and Replaced starter terminal P/N G-374-76 test ran O.K.

Signed: 
Name: Logan Baker

Cert: Mechanic: 4638550 P
Date: 10/26/2022

Aircraft Registration Number: _____			Aircraft Serial Number _____			
Date	Total Time in Service	Total Time Since Overhaul	Tach or recording Meter Time	Description of Work Done	Signature and Certificate Number	Person Performing Work
				TOTALS brought Forward		

WEST
West Aircraft Maintenance
280 Gardner Dr.
New Century KS 66031
19137024570

Make: Cirrus
Model: SR22
Tail: N181MC
S/N: 4720

Hours: AC: 1,302.1 TT: 1,302.1 EngTT: 1,302.1 PropTT: 1,302.1 Hobbs: 1,602.3 Misc:

Performed 100 HR Engine inspection IAW CMX In-Service Inspection II. Cirrus operational and function check IAW Cirrus AMM 5-30. Performed engine 100 HR inspection IAW Cirrus AMM 5-20 and Continental MM. Drained engine oil and serviced 7qts of Phillips 66 X/C SAE 20W-50. Replaced oil filter P/N AA48108-2. Performed particle inspection on filter, no discrepancies noted. Run up and leaked checks performed with no discrepancies noted, all work accomplished IAW Cirrus AMM 12-10 and Continental MM. Performed cylinder differential compression check IAW Continental MM. No discrepancies noted. Replaced rocket gasket P/N 668893. Compression 1.69/80 2: 69/80 3:69/80 4:66/80 5: 60/80 5: 70/80 Master orifice reading 43. I certify that this engine is in airworthy condition.

Signed: 
Name: Joshua Kennedy

Cert: Mechanic: 4653415 A/P
Date: 12/05/2022

WEST
West Aircraft Maintenance
280 Gardner Dr.
New Century KS 66031
19137024570

Make: Cirrus
Model: SR22
Tail: N181MC
S/N: 4720

Hours: AC: 1,302.1 TT: 1,302.1 EngTT: 1,302.1 PropTT: 1,302.1 Hobbs: 1,602.3 Misc:

Removed and replaced #1 cylinder with cylinder and valve assembly P/N 658815A2. Removed cylinder #1 connecting rod for reconditioning and re-installed. All work done reference to Continental M-0 manual.

Signed: 
Name: Logan Baker

Cert: Mechanic: 4638550 P
Date: 12/05/2022

2416 (03-20-2023)

Page 1 / 2

MAKE: CIRRUS DESIGN CORP
MODEL: SR22
S/N: 4720
REG. NO.: N181MC
ENG MODEL: IO-550-N (68)
ENG S/N: 1036520

Advanced Leesburg
1005 Sycolin Road Suite 106
Leesburg, VA 20175

W/O #: 2416
DATE: 03-20-2023
A/C TT: 1332.5
ENG TT: 1332.5
Hobbs: 1636.8

Engine Entries

- Performed 100HR/Annual Engine inspection in accordance with FAR 43 Appendix D, Cirrus SR22 AMM Rev. 4 Chpt. 5-20 & Continental IO-550 MM (M-16) Rev. 2 Chpt. 6-4.4 as a reference. Removed cowling and inspected. Performed Compression check: (1) 71/80 (2) 64/80 (3) 66/80 (4) 60/80 (5) 70/80 (6) 64/80; Master Orifice @ 44psi. Drained engine oil, collected Blackstone oil sample, removed oil filter to disassemble and inspect, no metal found. Installed and safety wired new oil filter P/N: AA48110-2 and serviced engine with 8 quarts of Phillips XC 20W50. Removed and cleaned fuel injectors, inspected for any defects, none found, reinstalled to 35 ft/lbs. Visually inspected cylinders, baffling, lines, wiring, induction/exhaust sys., accessories, engine mounts. Removed spark plugs; cleaned, inspected, gapped, tested, rotated and reinstalled to 35 ft/lbs with new gaskets. Checked valve timing controls for proper operation and travel; lubricated as needed. Checked magneto timing, within limits. Tightened cylinder #6, replaced (2) missing screws on LH baffling, replaced missing hardware on heat exchanger shroud. Checked sensor wiring, secured Tanis heater wiring, and replaced grommet, on ALT 1 wiring pass-through on front fuselage cowling. Performed post-maintenance ground run, ops and leak check ok. ADs & SBs researched through ATP on bi-week 2023-07.
- Replaced induction filter element with (1) new P/N: BA-24, **NEXT DUE @ 1532.5 FLIGHT or 3/10/2024**, which is the same as the last one.
- Inspected Engine mount weldment for any signs of corrosion or damage, no defects noted at this time. Verified torque bolts of the Engine Mount Weldment and Lower Mount Attach Fittings, no defects noted. **NEXT DUE @ 1663.5 FLIGHT**
- Secured the ignition leads above engine to provide more security and avoid any chafing.
- Found Tanis wiring to be shorting out on governor, secured and wrapped with rescue tape to prevent any more contact and replaced (1) 12amp fuse P/N: TU02848, operational check ok.
- Replaced (2) baffle P/N: 649243 and (2) spring P/N: 632907 for both cylinders #1 and #3.
- Replaced (1) heat exchanger assembly P/N: 21892-002, securing slip-joint hardware with new cotter pins.
- C/W AD2020-19-06, removed governor to disassemble. Inspected gears for any metallic debris, none found. Confirmed bearing variant "SCE59" to be installed. Reassembled with new o-ring, engraved the letter "B" on governor body to confirm compliance with this AD. Reinstalled governor with new gasket. Operational leak check ok.

I certify that this Engine has been inspected in accordance with a 100 Hour / Annual Inspection and has been determined to be in airworthy condition. This aircraft is approved for return to service. Pertinent details are on file under the listed Work Order.

DATE: 03-20-2023

SIGNED: 
David Ponce-Mexicano
A&P or IA Number: 4066904

WORK ORDER: 2416
Printed by EBIS (EBISCloud.com)

MAKE: CIRRUS DESIGN CORP
 MODEL: SR22
 S/N: 4720
 REG. NO.: N181MC
 ENG MODEL: IO-550-N (68)
 ENG S/N: 1036520

Advanced Leesburg
 1005 Sycolin Road Suite 106
 Leesburg, VA 20175

W/O #: 2629
 DATE: 05-19-2023
 ENG TT: 1382.9
 ENG TSN: 1382.9
 Hobbs: 1704.5
 A/C TT: 1382.9

Entries

- Drained engine oil. Removed, cut, inspected oil filter element w/no defects noted. Installed and safetied new oil filter P/N AA48108-2. Serviced engine w/8 quarts Phillips XC 20W50 aircraft engine oil. Ops and leak check performed; no defects noted.

Maintenance Release

The aircraft and/or component(s) on N181MC was repaired and inspected in accordance with current FARs rules of the Federal Aviation Regulations and was found Airworthy for return to service. Pertinent details of this maintenance are on file at our facility under the above work/service order number as applicable.

DATE: 05-19-2023

SIGNED:


 Daniel Sternfeld
 A&P: 3939920

WORK ORDER: 2629

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2715 (06-21-2023)

MAKE: CIRRUS DESIGN CORP
 MODEL: SR22
 S/N: 4720
 REG. NO.: N181MC

Advanced Leesburg
 1005 Sycolin Road Suite 106
 Leesburg, VA 20175

W/O #: 2715
 DATE: 06-21-2023
 A/C TT: 1428.6
 Flight: 1428.6
 Hobbs: 1763.1

Engine Entries

- Performed 100HR Engine inspection IAW FAR 43 Appendix D and Cirrus AMM Chpt. 5-20. Removed cowling and inspected. Performed Compression check: 1) 72/80 2) 70/80 3) 64/80 4) 72/80 5) 70/80 6) 78/80. Drained engine oil and collected Blackstone oil sample. Removed oil filter and inspected, no metal found. Installed and safety wired new oil filter and serviced with 8 quarts of Phillips XC 20W50. Removed spark plugs; cleaned, inspected, gapped, tested, rotated, and reinstalled to 35 ft/lbs with new gaskets. Replaced cyl# 4 push rod tube packings, cly#2 exhaust rush rod tube packing and cly #4 intake gasket due to leaks. Checked engine controls for proper operation, travel, and rigging. Checked magneto timing, within limits. Reinstalled cowling. Performed ground run, leak check ok at this time. ADs searched on ATP through 6/21/2023.
 I certify this Engine has been inspected IAW with a 100 Hour Inspection and was found to be in Airworthy Condition.

Maintenance Release

The aircraft and/or component(s) on N181MC was repaired and inspected in accordance with current FARs rules of the Federal Aviation Regulations and was found Airworthy for return to service. Pertinent details of this maintenance are on file at our facility under the above work/service order number as applicable.

DATE: 06-21-2023

SIGNED:


 Michael Noyes
 A&P: 4495806

WORK ORDER: 2715

Printed by EBIS (EBISCloud.com)

3150 (11-20-2023)

MAKE: CIRRUS DESIGN CORP **Advanced Leesburg**
 MODEL: SR22 1005 Sycolin Road Suite 106
 S/N: 4720 Leesburg, VA 20175
 REG. NO.: N181MC
 ENG MODEL: IO-550-N (68)
 ENG S/N: 1036520

W/O #: 3150
 DATE: 11-20-2023
 Flight: 1534.7
 Hobbs: 1899.2

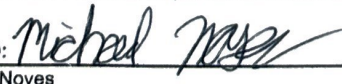
Engine Entries

- Performed 100HR Engine inspection IAW FAR 43 Appendix D and Cirrus AMM Chpt. 5-20. Removed cowling and inspected. Performed Compression check: 1) 72/80 2) 60/80 3) 65/80 4) 60/80 5) 63/80 6) 64/80 Master orifice at 42PSI. Drained engine oil and collected Blackstone oil sample. Removed oil filter and inspected, no metal found. Installed and safety wired new oil filter (PN:48108-2) and serviced with 8 quarts of Phillips XC 20W50. Checked magneto timing, within limits. Reinstalled cowling. Performed ground run, leak check ok at this time. ADs and SBs researched on ATP through 11/16/2023.
- Replaced both Cyl #4 push rod tube packings, O-rings and tab washers (PN:TCM534610, PN:TCM630286, and PN:TCM501868).
- Replaced all spark plugs with new (PN:RHB32E).

I certify that this engine has been inspected IAW a 100hr inspection and was found to be in Airworthy condition.

DATE: 11-20-2023

SIGNED:


 Michael Noyes
 A&P: 4495806

WORK ORDER: 3150

Printed by EBIS (EBISCloud.com)

3265 (12-27-2023)

MAKE: CIRRUS DESIGN CORP **Advanced Leesburg**
 MODEL: SR22 1005 Sycolin Road Suite 106
 S/N: 4720 Leesburg, VA 20175
 REG. NO.: N181MC

W/O #: 3265
 DATE: 12-27-2023
 Flight: 1565.3
 Hobbs: 1937.6

Airframe Entries


- AFCS INOP/SERVO COMM to GIA 1 CAS messages
 Could not reproduce fault. Applied contact cleaner and ACF-50 to connectors on both GIAs and both GDUs. Autopilot ops ck good.

Maintenance Release

The aircraft and/or component(s) on N181MC was repaired and inspected in accordance with current FARs rules of the Federal Aviation Regulations and was found Airworthy for return to service. Pertinent details of this maintenance are on file at our facility under the above work/service order number as applicable.

DATE: 12-27-2023

SIGNED:


 Christopher Ray
 A&P: 4122058

WORK ORDER: 3265

Printed by EBIS (EBISCloud.com)

ENGINE LOG BOOK





Continental Motors

FAA PRODUCTION CERTIFICATE NO. 508

Printed:09/26/2018

Test Date09/25/2018

This engine model I0550N68P, serial number 1036520 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.

Thomas Howard

CONTINENTAL MOTORS, INC.

Date	Total Time		Time Since Last Overhaul		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
	Hours	Min	Hours	Min	

2889 (08-18-2023) Page 1 / 1
 MAKE: CIRRUS DESIGN CORP **Advanced Leesburg** W/O #: 2889
 MODEL: SR22 1005 Sycolin Road Suite 106 DATE: 08-18-2023
 S/N: 4720 Leesburg, VA 20175 Flight: 1480.3
 REG. NO.: N181MC Hobbs: 1827.8

Engine Entries

- Performed 50 HR inspection, ran up aircraft to warm oil and removed cowling. Drained engine oil, collected Blackstone oil sample, removed oil filter and inspected, no metal found at this time. Installed new oil filter P/N: AA48108-2 and safety wired; serviced engine with 8 quarts of Phillips XC 20W50. Checked tire pressured; brought all tires to spec IAW aircraft POH. Reinstalled cowling and ran up aircraft. Leak check ok at this time.

Maintenance Release

The aircraft and/or component(s) on N181MC was repaired and inspected in accordance with current FARs rules of the Federal Aviation Regulations and was found Airworthy for return to service. Pertinent details of this maintenance are on file at our facility under the above work/service order number as applicable.

DATE: 08-18-2023 SIGNED: *Michael Noyes* WORK ORDER: 2889
 Michael Noyes Printed by EBIS (EBISCloud.com)
 A&P: 4495806

3375 (02-10-2024) Page 1 / 1
 MAKE: CIRRUS DESIGN CORP **Advanced Leesburg** W/O #: 3375
 MODEL: SR22 1005 Sycolin Road Suite 106 DATE: 02-10-2024
 S/N: 4720 Leesburg, VA 20175 Flight: 1582.4
 REG. NO.: N181MC Hobbs: 1960.7
 ENG MODEL: IO-550-N (68) A/C TT: 1582.4
 ENG S/N: 1036520

Engine Entries

- Ran up aircraft to warm oil and perform 50HR oil change & insp. IAW SR22 AMM Rev. 4 Chpt 5-20-00 & TCM IO-550 SPM (M-0) Chpt. 6-4.3. Checked all aircraft lighting, inspected airframe and inflated all tires to specified PSI in POH. Removed cowling. Drained engine oil, collected Blackstone oil sample, removed oil filter and inspected, no metal found at this time. Installed new oil filter P/N: AA48108-2 and safety wired; serviced engine with 8 quarts of Phillips XC 20W50. Inspected engine compartment, no defects found. Reinstalled cowling. Ran up aircraft. Leak check ok, no defects noted.
- Removed leaking engine-driven fuel pump P/N: 655921-6A1, S/N: NB18HA005 to send out for repair. Received and reinstalled overhauled unit same P/N, S/N: CF186701 (from Consolidated Fuel Systems LLC under w.o #1867). Fabricated gasket and reconnected lines, rigged mixture control cable and safetied bolt w/ new cotter pin. Ran up aircraft, operational leak check ok.

Maintenance Release

The aircraft and/or component(s) on N181MC was repaired and inspected in accordance with current FARs rules of the Federal Aviation Regulations and was found Airworthy for return to service. Pertinent details of this maintenance are on file at our facility under the above work/service order number as applicable.

DATE: 02-10-2024 SIGNED: *David Ponce-Mexicano* WORK ORDER: 3375
 David Ponce-Mexicano Printed by EBIS (EBISCloud.com)
 A&P/IA: 4066904

3438 (02-22-2024) Page 1 / 1
 MAKE: CIRRUS DESIGN CORP **Advanced Leesburg** W/O #: 3438
 MODEL: SR22 1005 Sycolin Road Suite 106 DATE: 02-22-2024
 S/N: 4720 Leesburg, VA 20175 Flight: 1594.7
 REG. NO.: N181MC Hobbs: 1975.4

Engine Entries

- Engine has Trouble Starting... Fuel delivery to engine is excessively lean. Tested unmetered fuel pressure at idle and 2500 RPM. Adjusted idle mixture. Ops check good; Engine starts, runs, and idles smoothly.

Maintenance Release

The aircraft and/or component(s) on N181MC was repaired and inspected in accordance with current FARs rules of the Federal Aviation Regulations and was found Airworthy for return to service. Pertinent details of this maintenance are on file at our facility under the above work/service order number as applicable.

DATE: 02-22-2024 SIGNED: *Christopher Ray* WORK ORDER: 3438
 Christopher Ray Printed by EBIS (EBISCloud.com)
 A&P: 4122058

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 f

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3553 (04-15-2024)

MAKE: CIRRUS DESIGN CORP
 MODEL: SR22
 S/N: 4720
 REG. NO: N181MC
 ENG MODEL: IO-550-N (68)
 ENG S/N: 1036520

Advanced Leesburg
 1005 Sycolin Road Suite 106
 Leesburg, VA 20175

W/O #: 3553
 DATE: 04-15-2024
 Hobbs: 1992.0
 Flight: 1607.9
 Eng TSN: 1607.9

Engine Entries

- Performed an Engine 100 Hr/Annual Inspection IAW Cirrus AMM 5-20 and Continental M-18 Manual. Performed engine operational and function check IAW Cirrus AMM 5-30. Drained engine oil and serviced w/8 qts Phillips XC 20w50 engine oil. Replaced oil filter w/new P/N AA48108-2. Performed particulate inspection on filter, no discrepancies noted. Run up and leak checks performed with no discrepancies noted. Removed, cleaned, reinstalled fuel injector nozzles. All work accomplished IAW Cirrus AMM 12-20 and Continental M-18 Manual. Performed cylinder differential compression checks and borescope inspections IAW Continental M-18 Manual. No discrepancies noted. Compression results as follows: 1) 70/80 2) 68/80 3) 71/80 4) 65/80 5) 65/80 6) 72/80, Master Orifice: 50/80.
- R/R alternator 1 gasket w/new P/N 653981.
- Adjusted idle speed and mixture within limits.
- Adjusted high unmetered and high metered fuel pressures within limits IAW Continental M-0 Revision No. 1 Change 5, Chapter 6-4.

I certify that this Engine has been inspected in accordance with a 100 Hour / Annual Inspection and has been determined to be in airworthy condition. This aircraft is approved for return to service. Pertinent details are on file under the listed Work Order.

DATE: 04-15-2024 SIGNED: 
 Daniel Sternfeld
 A&P/IA: 3939920

WORK ORDER: 3553
 Printed by EBIS (EBISCloud.com)

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3754 (06-11-2024)

MAKE: CIRRUS DESIGN CORP
 MODEL: SR22
 S/N: 4720
 REG. NO: N181MC
 ENG MODEL: IO-550-N (68)
 ENG S/N: 1036520

Advanced Leesburg
 1005 Sycolin Road Suite 106
 Leesburg, VA 20175


W/O #: 3754
 DATE: 06-11-2024
 Hobbs: 2054.1
 Flight: 1658.7

Engine Entries

- 50 hour oil change
 Ran up aircraft to warm oil and perform 50HR oil change & insp. IAW SR22 AMM Rev. 4 Chpt 5-20-00 & TCM IO-550 SPMM (M-0) Chpt. 6-4.3. Checked all aircraft lighting, inspected airframe and inflated all tires to specified PSI in POH. Removed cowling. Drained engine oil, collected Blackstone oil sample, removed oil filter and inspected, no metal found at this time. Installed new oil filter P/N: AA48108-2 and safety wired; serviced engine with 8 quarts of Phillips XC 20W50. Inspected engine compartment, no defects found. Reinstalled cowling. Ran up aircraft. Leak check ok, no defects noted.

Maintenance Release

The aircraft and/or component(s) on N181MC was repaired and inspected in accordance with current FARs rules of the Federal Aviation Regulations and was found Airworthy for return to service. Pertinent details of this maintenance are on file at our facility under the above work/service order number as applicable.

DATE: 06-11-2024 SIGNED: 
 Tim Watson
 A&P: 2775667

WORK ORDER: 3754
 Printed by EBIS (EBISCloud.com)

Engine Service and Maintenance Record

Date	Total Time		Time Since Last Overhaul	
	Hours	Min	Hours	Min
Carried forward →				

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

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JYO3951-08-2024 (08-16-2024)

MAKE: CIRRUS DESIGN CORP
MODEL: SR22
S/N: 4720
REG. NO: N181MC
ENG MODEL: IO-550-N (68)
ENG S/N: 1036520

Advanced Leesburg
1005 Sycolin Road Suite 106
Leesburg, VA 20175

W/O #: JYO3951-08-2024
DATE: 08-16-2024
Hobbs: 2115.8
Flight: 1709.3

Engine Entries

- Ran up aircraft to warm oil and perform 50HR oil change & insp. IAW SR22 AMM Rev. 4 Chpt 5-20-00 & TCM IO-550 SPMM (M-0) Chpt. 6-4.3. Checked all aircraft lighting, inspected airframe and inflated all tires to specified PSI in POH. Removed cowling. Drained engine oil, collected Blackstone oil sample, removed oil filter and inspected, no metal found at this time. Installed new oil filter P/N: AA48108-2 and safety wired; serviced engine with 8 quarts of Phillips XC 20W50. Inspected engine compartment, no defects found. Reinstalled cowling. Ran up aircraft. Leak check ok, no defects noted.

Maintenance Release

The aircraft and/or component(s) on N181MC was repaired and inspected in accordance with current FARs rules of the Federal Aviation Regulations and was found Airworthy for return to service. Pertinent details of this maintenance are on file at our facility under the above work/service order number as applicable.

DATE: 08-16-2024

SIGNED:

Jacob Gehly
A&P: 3989557



WORK ORDER: JYO3951-08-2024
Printed by EBIS (EBISCloud.com)