

# ENGINE MAINTENANCE RECORDS



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**GOLD SEAL AIRCRAFT ENGINES**

 P.O. Box 100  
 Montrose, CO 81401  
 www.westernskyways.com

 (800) 675-9829  
 (970) 248-0282  
 FAX: (970) 248-4155

Engine Make: CONTINENTAL Model: IO-520-BB  
 Serial Number: 820463-R W/O No: W050790 Date: 07/23/15  
 Warranty Number: G15144 3 YEAR WARR Warranty Start Date: 08/15  
 Crankshaft Serial No: C848 Cylinder Part Number: SAP SA52006-A20P NEW

This engine and accessories listed below were overhauled to "Factory New Tolerances" per Overhaul Manual No: X30039 and Western Skyways, Inc. Repair Specification WSI-100 "Use and Application of Hylomar Sealant" dated 11/10/2010 on all Teledyne Continental Motor Engines and Lycoming Engines as applicable. See back section for Airworthiness Directives and Service Bulletin compliance. This engine was run in a test cell. Total Previous Time: 1699.24 Hrs.

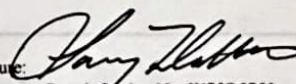
This engine meets requirements of CONTINENTAL SIL-98C for 1700.0 Hour TBO

The accessories listed below were New or Overhauled and supplied with this engine:

Component	Part No.	Serial No.	Component	Part No.	Serial No.
L/H Mag:	BL-349350-4	F14FA014R	Vac Pump:	N/A	N/A
R/H Mag:	BL-349350-5	F14EA272R	Wastegate:	N/A	N/A
Fuel Pump:	646212-16	B01EA412R	Alt/Gen:	N/A	N/A
Inj/Carb:	629904-2	A01FA010R	Press Rel Val.:	N/A	N/A
Man Valve:	631427-2A9	<u>A109410CR</u>	Pop Off.:	N/A	N/A
Starter:	C24ST5	4C5-221503	Controller.:	N/A	N/A
Turbo :	N/A	N/A	Controller:	N/A	N/A
			Fuel Limiter:	N/A	N/A

### MAINTENANCE RELEASE

The engine and accessories listed above were overhauled and inspected in accordance with current Federal Aviation Regulations and were found airworthy for return to service. Pertinent details of this repair are on file at this Repair Station on above work order.

Signature:   
 Repair Station No. WS9R575J

Form 200

Cylinder S/N	Cylinder S/N
#1: 526F1517894	#5: 526F1517908
#2: 526F1517895	#6: 526F1517984
#3: 526F1517898	#7: N/A
#4: 526F1517906	#8: N/A



DATE

TACH OR  
RECORDING  
METER  
TIME

# DESCRIPTION OF WORK PERFORMED - SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK

Page 1 of 2

## AD NOTES COMPLIANCE RECORD

Engine - Continental Motors - IO-520-BB

S/N: 820463-R

Western Skyways, Inc.

CRS# WS9R575J

W/O# W050790

Appliance - Magnetos - TCM (formerly Bendix) 6-1200 series S/N: F14FA014R &amp; F14EA272R

P/N: BL-349350-4 &amp; BL-349350-5

Model # S6RN-1225

Appliance - Cylinder assembly - Superior Air Parts

S/N: 526F1517894, 526F1517895, 526F1517896, 526F1517908, 526F1517909, 526F1517994

P/N: SA52008-A20P

AD#	Applicable S.B. # & Subject	Date & Hours @ Comp.	Method of Compliance	One Time	Recurring	Next Comp. @ Hrs/Date	Authorized Signature & Number
70-14-07 R2	Fuel injection pump needle	07/23/15 1699.24	Verified new style needle installed.	X			Larry Flatten CRS# WS9R575J
72-34-03	Oil filter adaptor	07/23/15 1699.24	N/A per engine model number.	X			Larry Flatten CRS# WS9R575J
74-38-08	Bendix magnetos	07/23/15 1699.24	N/A per magneto serial number.	X			Larry Flatten CRS# WS9R575J
79-08-09	Oil pressure relief valve	07/23/15 1699.24	"Current Design" screw and plunger installed.	X			Larry Flatten CRS# WS9R575J
80-01-04	Cylinder holddown flanges	07/23/15 1699.24	N/A per cylinder manufacture.	X			Larry Flatten CRS# WS9R575J
81-34-06	Fuel pump	07/23/15 1699.24	N/A per fuel pump S/N: B01EA412R.	X			Larry Flatten CRS# WS9R575J
82-13-01	Bendix magnetos	07/23/15 1699.24	N/A, green blocks not installed.	X			Larry Flatten CRS# WS9R575J
83-30-01	Bendix magnetos	07/23/15 1699.24	N/A per magneto serial number.	X			Larry Flatten CRS# WS9R575J
86-13-04 R3	Cylinder assemblies	07/23/15 1699.24	N/A per cylinder manufacture.	X			Larry Flatten CRS# WS9R575J
87-14-02	Starter adaptor shaftgear	07/23/15 1699.24	N/A per engine serial number.	X			Larry Flatten CRS# WS9R575J
88-03-06	Oil filter	07/23/15 1699.24	Installed oil filter P/N: CH48109-1.	X			Larry Flatten CRS# WS9R575J
88-17-03	Starter adapter shaftgear	07/23/15 1699.24	N/A per starter adapter P/N: 624083	X			Larry Flatten CRS# WS9R575J
91-19-03	Champion oil filter	07/23/15 1699.24	N/A per oil filter P/N: CH48109-1.	X			Larry Flatten CRS# WS9R575J
93-06-17	Incorrect oil pick-up tube	07/23/15 1699.24	N/A per engine model number.	X			Larry Flatten CRS# WS9R575J
93-10-02	Cylinder valve retainer	07/23/15 1699.24	N/A per cylinder manufacture.	X			Larry Flatten CRS# WS9R575J

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AD#	Applicable S.B. # & Subject	Date & Hours @ Comp.	Method of Compliance	One Time	Recurring	Next Comp. @ Hrs/Date	Authorized Signature & Number
83-16-16	Fuel pumps	07/23/15 1699.24	Installed fuel pump drive coupling P/N: 653359.	X			Larry Flatten CRS# WS9R575J
94-01-03 R2	Teledyne/Bendix magnetos	07/23/15 1699.24	N/A per magneto serial number.	X			Larry Flatten CRS# WS9R575J
94-06-09	Teledyne/Bendix magnetos	07/23/15 1699.24	N/A per magneto serial number.	X			Larry Flatten CRS# WS9R575J
96-31-16	Engine teardown and analytical inspect.	07/23/15 1699.24	Engine inspected at overhaul.	X			Larry Flatten CRS# WS9R575J
97-38-17	CORRECTION - Crankshaft fatigue cracks	07/23/15 1699.24	VAR crankshaft S/N: C848 ultrasonic inspected.	X	At next crankshaft removal.		Larry Flatten CRS# WS9R575J
98-17-11	Crankshafts	07/23/15 1699.24	Crankshaft, S/N: C848 visual, dimensional and magnetic particle tested.	X			Larry Flatten CRS# WS9R575J
99-19-01	Crankshaft failure	07/23/15 1699.24	N/A per crankshaft S/N: C848.	X			Larry Flatten CRS# WS9R575J
2000-33-21	Fracture of the crankshaft connecting rod journal	07/23/15 1699.24	N/A per crankshaft S/N: C848.	X			Larry Flatten CRS# WS9R575J
2004-08-19	Prevent loss of engine power	07/23/15 1699.24	N/A per cylinder manufacture.	X			Larry Flatten CRS# WS9R575J
2005-12-06	Prevent failure of the magneto impulse coupling assembly	07/23/15 1699.24	N/A per engine manufacture.	X			Larry Flatten CRS# WS9R575J
2007-04-18	To prevent cylinder separation that can lead to engine failure	07/23/15 1699.24	N/A per cylinder part number.	X			Larry Flatten CRS# WS9R575J
2007-04-19R1	To prevent cylinder separation that can lead to engine failure	07/23/15 1699.24	N/A per cylinder part number.	X			Larry Flatten CRS# WS9R575J
2009-10-07	Correction - To prevent loss of engine power due to cracks in the cylinder head, possible engine failure, and fire in the engine compartment	07/23/15 1699.24	N/A per cylinder manufacture.	X			Larry Flatten CRS# WS9R575J
2010-11-04	To prevent excessive hydraulic lifter wear	07/23/15 1699.24	Installed overhauled lifters P/N: 653888 and 653877.	X			Larry Flatten CRS# WS9R575J
2012-03-06	To prevent an in-flight shutdown due to a failed fuel servo diaphragm	07/23/15 1699.24	N/A, fuel injection servo not used on this engine.	X			Larry Flatten CRS# WS9R575J
2014-06-29	Superior Air Parts Investment Cast Cylinder Assemblies	07/23/15 1699.24	N/A per cylinder part number.	X			Larry Flatten CRS# WS9R575J



DA

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Fax 207-622-7858

N1546R Engine Log

08/13/15 Aircraft Time—1809.2 SMOH—0.00 Total Time—1699.2 Work Order # 15-1025

This engine installed on Aircraft N1546R with new isolators and mount bolts. Checked fuel system IAW Continental SB97-3F. Engine ground runs, leak check, operational checks and test flight satisfactory. All work accomplished IAW Beechcraft MM 36-590001-9 C8

Signed Jeffrey Pieske  
Jeffrey Pieske A&P 2580657

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N1546R Engine

10/29/15 Aircraft Time—1833.6 Total Time—1723.6 SOH—24.4 Work Order # 15-1112

Drained oil and serviced with 11qts of Phillips 20W50X/C oil and 16ozs of Camguard. Inspected and replaced the CH48109-1 filter. Replaced the oil pressure relief valve crush gasket. Engine ground runs and leak checks satisfactory. All work accomplished IAW Beechcraft MM 36-590001-9 C8 and Continental IO-520 service manual.

Signed Jeffrey Pieske  
Jeffrey Pieske A&P 2580657

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215 Winthrop St  
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Fax 207-622-7858

N1546R Engine Log

01/14/2016 Aircraft Time—1858.5 Engine TT: 1748.5 TSOH: 49.3 Work Order # 15-1157

Compressions: #1 76/80, #2 74/80, #3 76/80, #4 78/80, #5 76/80, #6 76/80. Drained oil. Removed and inspected filter. Installed new CH48109 filter. Refilled with 11.5 qts 20W50 oil and 16 ounces Camguard. Cleaned and tested the sparkplugs. Checked magneto to engine timing. Adjusted idle mixture. Engine run-up and leak check satisfactory. Replaced tach drive cover. All work accomplished in accordance with Beechcraft MM 36-590001-9 C9 and Continental IO-520 engine manual.

Signed David Blais  
David Blais 40506897 A&P

All AD's checked with TDATA 2016-1. I certify that this engine has been inspected in accordance with an annual inspection and has been found to be in an airworthy condition.

Signed Jeffrey Pieske  
Jeffrey Pieske A&P 2580657 IA

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Augusta, ME 04330-5040 Fax 207-622-7858

Date: 5/23/2016; Aircraft: N1546R; Type: F33A; S/N: CE-1773; Tach: 1885.80; Total Time: 1885.80; Engine - Type: IO-520 -BB, S/N: 820463(R), Time: 1775.80, SMOH: 76.56  
Shop Order #: 16-1288

Installed servicable valve cover gaskets. All work performed IAW Beechcraft MM. 36-590001-9 Rev. C9

Signed Sam Staples  
Sam Staples A&P 3782586



DATE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED - SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
		<p><b>MAINE INSTRUMENT FLIGHT</b> Since 1946</p> <p>Augusta State Airport Tel 207-622-1211 215 Winthrop St Toll Free 888-643-3597 Augusta, ME 04330-5040 Fax 207-622-7858</p> <p>Date: 7/05/2016; Aircraft: N1546R; Type: F33A; S/N: CE-1773; Tach: 1918.40; Total Time: 1918.40; Engine - Type: IO-520 -BB, S/N: 820463(R), Time: 1808.40, SMOH: 109.16 Shop Order #: 16-1328 Drained oil and serviced with 11 quarts of Phillips 20W50 X/C oil and 16 ozs of Camgaud. Removed, inspected and replaced oil filter. Engine ground runs and leak check satisfactory. All work accomplished IAW Beechcraft MM 36-590001-9 C9 and Continental IO-520 overhaul manual.</p> <p>Signed <u>Jeffrey Pieske</u> Jeffrey Pieske A&amp;P 2580657</p>
		<p><b>MAINE INSTRUMENT FLIGHT</b> Since 1946</p> <p>Augusta State Airport Tel 207-622-1211 215 Winthrop St Toll Free 888-643-3597 Augusta, ME 04330-5040 Fax 207-622-7858</p> <p>Date: 9/02/2016; Aircraft: N1546R; Type: F33A; S/N: CE-1773; Tach: 1957.90; Total Time: 1957.90; Engine - Type: IO-520 -BB, S/N: 820463(R), Time: 1847.90, SMOH: 148.66 Shop Order #: 16-1394 Drained oil and serviced with 11 quarts of Phillips 20W50 X/C oil and 16 oz of Camgaud. Removed, inspected and replaced oil filter. Removed, cleaned, gapped and tested spark plugs. Performed compression test results as follows, #1/72 #2/74 #3/74 #4/68 #5/78 #6/72. Checked engine to magneto timing. Engine ground runs, leak checks and operational checks satisfactory. All work performed IAW Beechcraft MM 36-590001-9 C9</p> <p>Signed <u>David Blais</u> David Blais A&amp;P 40506897</p> <p>All AD's checked using TDATA 2016-17. I certify that this Engine has been inspected in accordance with an annual inspection and was determined to be in an airworthy condition at this time.</p> <p>Signed <u>Jeffrey Pieske</u> Jeffrey Pieske A&amp;P 2580657 IA</p>
		<p><b>MAINE INSTRUMENT FLIGHT</b> Since 1946</p> <p>Augusta State Airport Tel 207-622-1211 215 Winthrop St Toll Free 888-643-3597 Augusta, ME 04330-5040 Fax 207-622-7858</p> <p>Date: 12/06/2016; Aircraft: N1546R; Type: F33A; S/N: CE-1773; Tach: 2008.10; Total Time: 2008.10; Engine - Type: IO-520-BB, S/N: 820463(R), Time: 1898.14, SMOH: 198.90 Shop Order #: 16-1470 Drained oil and serviced with 11 quarts of Phillips 20W50 X/C oil and 16oz of Camgaud. Removed, inspected and replaced oil filter. Engine ground run, leak checks and operational check satisfactory. All work performed IAW Beechcraft MM 36-590001-9 C9 and Continental IO-520 overhaul manual.</p> <p>Signed <u>Jeffrey Pieske</u> Jeffrey Pieske A&amp;P 2580657</p>
		<p><b>MAINE INSTRUMENT FLIGHT</b> Since 1946</p> <p>Augusta State Airport Tel 207-622-1211 215 Winthrop St Toll Free 888-643-3597 Augusta, ME 04330-5040 Fax 207-622-7858</p> <p>Date: 5/17/2017; Aircraft: N1546R; Type: F33A; S/N: CE-1773; Tach: 2026.30; Total Time: 2026.30; Engine - Type: IO-520-BB, S/N: 820463(R), Time: 1916.34, SMOH: 217.10 Shop Order #: 17-1612 Inspected #2 CHT probe and wire, checked for intake and fuel leaks. Could not duplicate #2 CHT fluctuation. Removed, cleaned and reinstalled fuel injectors. Engine ground runs, leak checks and operational checks satisfactory. All work accomplished IAW Beechcraft MM. 36-590001-9C and Continental IO520 service manual</p> <p>Signed <u>Sam Staples</u> Sam Staples A&amp;P 3762586</p>



DATE

TACH OR  
RECORDING  
METER  
TIMEDESCRIPTION OF WORK PERFORMED –  
SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK**MAINE INSTRUMENT FLIGHT**

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Augusta, ME 04330-5040 Fax 207-622-7858Date: 9/19/2017; Aircraft: N1546R, Type: F33A, S/N: CE-1773; Tach: 2062.30; Total Time: 2062.30; Engine - Type: IO-520 -BB, S/N: 820463(R), Time: 1952.34, SMOH: 253.10  
Shop Order #: 17-1713

Drained oil and serviced with 11 quarts of Phillips 20W50 X/C oil and 16oz of Camguard. Performed compression test, results as follows #1-74/80 #2-74/80 #3-74/80 #4-73/80 #5-74/80 #6-78/80. Removed, inspected and replaced oil filter. Cleaned, gapped and tested spark plugs. Checked magneto to engine timing. Repaired wire at starter terminal fuse. Replaced oil seal in tach drive. Replaced cushion clamp on fuel return line in engine bay. Torqued hardware on tail pipe to muffler clamps. Ground runs, operational checks and leak checks satisfactory. All work accomplished IAW Beechcraft MM 36-590001-9 C11 and Continental IO-520 overhaul manual.

Signed David Blais  
David Blais A&P 40506897

All AD's checked using TDATA 2017-19. I certify that this engine has been inspected in accordance with an annual inspection and was determined to be in an airworthy condition at this time.

Signed Jeffrey Pieske  
Jeffrey Pieske A&P 2580657 IA**MAINE INSTRUMENT FLIGHT**

Since 1946

Augusta State Airport Tel 207-622-1211  
215 Winthrop St Toll Free 888-643-3597  
Augusta, ME 04330-5040 Fax 207-622-7858Date: 5/04/2018; Aircraft: N1546R, Type: F33A, S/N: CE-1773; Tach: 2113.50; Total Time: 2113.50; Engine - Type: IO-520 -BB, S/N: 820463(R), Time: 2003.50, SMOH: 304.26  
Shop Order #: 18-1866

Drained oil and serviced with 11 quarts of Phillips 20W50 X/C oil and 16oz of Camguard. Removed, inspected and replaced the oil filter. Engine ground run and leak checks satisfactory. All work accomplished IAW Beechcraft MM 36-590001-9 C11 and Continental IO-520 manual.

Signed David Blais  
David Blais A&P 40506897**MAINE INSTRUMENT FLIGHT**

Since 1946

Augusta State Airport Tel 207-622-1211  
215 Winthrop St Toll Free 888-643-3597  
Augusta, ME 04330-5040 Fax 207-622-7858Date: 9/12/2018; Aircraft: N1546R, Type: F33A, S/N: CE-1773; Tach: 2162.90; Total Time: 2162.90; Engine - Type: IO-520 -BB, S/N: 820463(R), Time: 2052.94, SMOH: 353.70  
Shop Order #: 18-1994

Drained oil and serviced with 11 quarts of Phillips 20W50 X/C oil. Removed, inspected and replaced the oil filter. Performed compression test, results as follows #1/74 #2/70 #3/72 #4/72 #5/72 #6/70. Cleaned, gapped and tested the spark plugs. Checked magneto to engine timing. Ground run, leak checks and operational checks satisfactory. All work accomplished IAW Beechcraft MM 36-590001-9 C11 and Continental IO-520 service manual.

Signed David Blais  
David Blais A&P 40506897

All AD's checked using TDATA 2018-18. I certify that this engine has been inspected in accordance with an annual inspection and was determined to be in an airworthy condition at this time.

Signed Jeffrey Pieske  
Jeffrey Pieske A&P 2580657 IA**MAINE INSTRUMENT FLIGHT**

Since 1946

Augusta State Airport Tel 207-622-1211  
215 Winthrop St Toll Free 888-643-3597  
Augusta, ME 04330-5040 Fax 207-622-7858Date: 5/02/2019; Aircraft: N1546R, Type: F33A, S/N: CE-1773; Tach: 2218.70; Total Time: 2218.70; Engine - Type: IO-520 -BB, S/N: 820463(R), Time: 2108.74, SMOH: 409.50  
Shop Order #: 19-2178

Drained oil and serviced with 11qts of Phillips 20W50 X/C oil and 16ozs of Camguard. Removed, inspected and replaced the oil filter. Ground run and leak checks satisfactory. All work accomplished IAW Continental M-0 manual.

Signed David Blais  
David Blais A&P 40506897



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Date: 10/23/2019; Aircraft: N1546R; Type: F33A; S/N: CE-1773; Tach: 2258.20; Total Time: 2258.20; Engine - Type: IO-520-BB, S/N: 820463(R); Time: 2148.24; SMOH: 449.00  
 Shop Order #: 19-2335

Drained oil. Removed, inspected and replaced oil filter with new filter. Serviced engine with 11 quarts of Phillips 20W50 oil and 16 ounces of camguard. Cleaned, inspected, and rotated spark plugs. Performed compression checks, results as follows: 1-63, 2-66, 3-71, 4-65, 5-72, 6-70. Performed 500 hr checks on LH and RH magnetos. Replaced distributor blocks in both magnetos with new distributor blocks. Internally timed mags, reinstalled and timed to engine. Replaced deteriorated oil dipstick gasket with new gasket. Replaced #4 cyl pushrod tube seals with new seals. Ground run, leak checks and operational checks satisfactory. All work accomplished IAW Continental manual M-0.

Signed   
 Nicholas Koch A&P 3130849

All AD's checked using TDATA 2019-21. I certify that this Engine has been inspected in accordance with an annual inspection and was determined to be in an airworthy condition at this time.


Signed   
 Jeffrey Pieske A&P 2580657 IA

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 Augusta, ME 04330-5040 Fax 207-622-7858

Date: 10/29/2020; Aircraft: N1546R; Type: F33A; S/N: CE-1773; Tach: 2304.10; Total Time: 2304.10; Engine - Type: IO-520-BB, S/N: 820463(R); Time: 2194.14; SMOH: 494.90  
 Shop Order #: 20-2583

Drained oil. Removed, inspected, and replaced oil filter with new oil filter. Serviced engine with 11 quarts of Phillips XC 20W50 oil and 16 ounces of camguard. Removed, cleaned, inspected, gapped, and re-installed spark plugs. Replaced 2ea cracked spark plugs with new plugs. Performed compression checks. Results as follows: 1-75, 2-60, 3-73, 4-64, 5-72, 6-62. Checked magneto to engine timing. Ground run, leak checks and operational checks ok. All work done IAW Continental manual M-0.

Signed   
 Nicholas Koch A&P 3130849

AD's checked using TDATA 2020-22. I certify that this Engine has been inspected in accordance with an annual inspection and was determined to be in an airworthy condition at this time.

Signed   
 Jeffrey Pieske A&P 2580657 IA

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 Augusta, ME 04330-5040 Fax 207-622-7858

Date: 6/11/2021; Aircraft: N1546R; Type: F33A; S/N: CE-1773; Tach: 2352.90; Total Time: 2352.90; Engine - Type: IO-520-BB, S/N: 820463(R); Time: 2242.94; SMOH: 543.70  
 Shop Order #: 21-2739

Drained oil. Removed, inspected, and replaced oil filter with new filter. Serviced engine with 11 quarts of Phillips XC 20W50 oil and 16 ounces of Camguard. Ground run and leak check satisfactory. All work done IAW Continental manual M-0.


Signed   
 Nicholas Koch A&P 3130849

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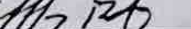
 Augusta State Airport Tel 207-622-1211  
 215 Winthrop St Toll Free 888-643-3597  
 Augusta, ME 04330-5040 WWW.Maineinstrumentflight.Com

Date: 11/10/2021; Aircraft: N1546R; Type: F33A; S/N: CE-1773; Tach: 2392.90; Total Time: 2392.90; Engine - Type: IO-520-BB, S/N: 820463(R); Time: 2282.94; SMOH: 583.70  
 Shop Order #: 21-2836

Drained oil and serviced with 11qts of Phillips 20W50 X/C oil and 16ozs of Camguard. Removed, inspected and replaced the oil filter. Cleaned, gapped, tested and rotated the sparkplugs. Replaced two sparkplugs. Checked the magneto to engine timing. Performed compression checks, results as follows #1-70, #2-66, #3-73, #4-77, #5-72, #6-72. Ground run, leak checks and operational checks satisfactory. All work done IAW Continental manual M-0.

Signed   
 David Blais A&P 40506897

ADs checked using TDATA 2021-23. I certify that this Engine has been inspected in accordance with an annual inspection and was determined to be in an airworthy condition at this time.

Signed   
 Jeffrey Pieske A&P 2580657 IA







