



WESTERN
Skyways
INC.

GOLD SEAL AIRCRAFT ENGINES

21 Creative Place
Montrose, CO 81401
www.westernskyways.com

(800) 675-9829
(970) 248-0292
FAX: (970) 249-4155

Engine Make: CONTINENTAL Model: IO-470-C
Serial Number: 295537-R W/O No: 0029082 Date: 08/15/12
Warranty Number: H12137 Warranty Start Date: 08/12
Crankshaft Serial No: E179610N Cylinder Part Number: AEC631397 CUST SUPP

This engine and accessories listed below were overhauled to "Factory New Tolerances" per Overhaul Manual No: X30586 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: 1036.5 Hrs.

This engine meets requirements of CONTINENTAL SIL98-9A for 1500.0 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:	10-500556-1 CUST SUPP	D239606D	Vac Pump:	N/A	N/A
R/H Mag:	10-500556-1 CUST SUPP	F259629D	Wastegate:	N/A	N/A
Fuel Pump:	646212-9A3	G059602BR	Alt/Gen:	N/A	N/A
Inj/Carb:	626836A9	G059605AR	Press Rel Val.:	N/A	N/A
Man Valve:	631427A22	G059601CR	Controller:	N/A	N/A
Starter:	N/A	N/A	VAPC:	N/A	N/A
Turbo:	N/A	N/A	Fuel Limiter:	N/A	N/A
	N/A	N/A	Tach Gen:	N/A	N/A
	N/A	N/A		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.

Form 200 Rev. 2

Signature:

Tony Nicholson

Repair Station No. WS9R575J

AD NOTES COMPLIANCE RECORD

Engine - Continental Motors - IO-470-C

S/N: 295537-R

Western Skyways, Inc.

WS9R575J

W/O# 0029082

P/N: 10-500556-1

Appliance - Magnetos - TCM (formerly Bendix) S-20 series

S/N: D239606D &
F259628DAppliance - Cylinder assembly - Engine Components
Incorporated (EC)S/N: 77568-03,
77568-01,
76721-07,
76721-06,
76075-02,
76074-10.

P/N: AEC631397 / SN68.3B

AD#	Applicable S.B. # & Subject	Date & Hours @ Comp.	Method of Compliance	Recurring One Time	Next Comp. @ Hrs/Date	Authorized Signature & Number
70-14-07 R2	Fuel injection pump needle	08/15/12 1036.5	N/A per adjustment needle style.	X		Tory Nicholson WS9R575J
73-07-04	Bendix Magnetos	08/15/12 1036.5	Superseded by 94-01-03 R2.	X		Tory Nicholson WS9R575J
74-26-06	Bendix magnetos	08/15/12 1036.5	N/A per magneto part number.	X		Tory Nicholson WS9R575J
78-09-07 R3	Bendix magnetos	08/15/12 1036.5	Superseded by 96-12-07.	X		Tory Nicholson WS9R575J
79-05-09	Oil pressure relief valve	08/15/12 1036.5	Installed "Current Design" screw and plunger.	X		Tory Nicholson WS9R575J
82-20-01	Bendix magnetos	08/15/12 1036.5	N/A per magneto serial numbers.	X		Tory Nicholson WS9R575J
85-08-02	Cylinder assemblies	08/15/12 1036.5	N/A per engine serial number.	X		Tory Nicholson WS9R575J
88-03-06	Oil filter	08/15/12 1036.5	N/A, no oil filter supplied by Western Skyways.	X		Tory Nicholson WS9R575J
91-19-03	Champion oil filter	08/15/12 1036.5	N/A, no oil filter supplied by Western Skyways.	X		Tory Nicholson WS9R575J
93-08-17	Incorrect oil pick-up tube	08/15/12 1036.5	N/A per engine model.	X		Tory Nicholson WS9R575J
93-10-02	Cylinder valve retainer	08/15/12 1036.5	N/A, installed new ECi cylinders.	X		Tory Nicholson WS9R575J
94-01-03 R2	Teledyne/Bendix magnetos	08/15/12 1036.5	N/A per magneto serial numbers.	X		Tory Nicholson WS9R575J
94-06-09	Teledyne/Bendix magnetos	08/15/12 1036.5	Date code "93-40" or "93-42" capacitor not installed.	X		Tory Nicholson WS9R575J
94-14-12	Low octane detonation	08/15/12 1036.5	Superseded by 95-21-15.	X		Tory Nicholson WS9R575J
95-21-15	Engine teardown and analytical inspect.	08/15/12 1036.5	N/A per N# N6007E.	X		Tory Nicholson WS9R575J

AD#	Applicable S.B. # & Subject	Date & Hours @ Comp.	Method of Compliance	Recurring One Time	Next Comp. @ Hrs/Date	Authorized Signature & Number
96-12-07	Prevent magneto failure and subsequent engine failure	08/15/12 1036.5	Superseded by 2005-12-06.	X		Tory Nicholson WS9R575J
PL97-15-01	Cylinders and piston pins	08/15/12 1036.5	Superseded by 97-21-02.	X		Tory Nicholson WS9R575J
97-21-02	Cylinders and piston pins	08/15/12 1036.5	Installed new ECi cylinders and new piston pins P/N: SA539467.	X		Tory Nicholson WS9R575J
PL98-01-08	Exhaust roller rocker arms	08/15/12 1036.5	No roller rockers installed.	X		Tory Nicholson WS9R575J
98-17-11	Crankshafts	08/15/12 1036.5	No work performed by Nelson Balancing Service.	X		Tory Nicholson WS9R575J
PL99-09-17	Crankshaft failure	08/15/12 1036.5	Superseded by 99-19-01.	X		Tory Nicholson WS9R575J
99-19-01	Crankshaft failure	08/15/12 1036.5	N/A per crankshaft S/N: E179610N.	X		Tory Nicholson WS9R575J
PL2000-08-51	Crankshaft connecting rod journal fracture	08/15/12 1036.5	Superseded by 2000-23-21.	X		Tory Nicholson WS9R575J
2000-23-21	Fracture of the crankshaft connecting rod journal	08/15/12 1036.5	N/A per crankshaft S/N: E179610N.	X		Tory Nicholson WS9R575J
2005-12-06	Prevent failure of the magneto impulse coupling assembly	08/15/12 1036.5	N/A per engine model.	X		Tory Nicholson WS9R575J
2005-26-10	To prevent loss of engine power due to cracks in the cylinder assemblies	08/15/12 1036.5	Superseded by 2006-12-07.	X		Tory Nicholson WS9R575J
2006-12-07	To prevent loss of engine power due to cracks in the cylinder assemblies	08/15/12 1036.5	N/A per cylinder serial numbers.	X		Tory Nicholson WS9R575J
2008-19-05	To prevent loss of engine power due to cracks at the head-to-barrel interface in the cylinder assemblies and possible engine failure caused by separation of a cylinder head	08/15/12 1036.5	Superseded by 2009-26-12.	X		Tory Nicholson WS9R575J
2009-19-07	Correction - To prevent loss of engine power due to cracks in the cylinder head, possible engine failure, and fire in the engine compartment	08/15/12 1036.5	N/A, EQ3 cylinders not installed.	X		Tory Nicholson WS9R575J
2009-24-51	To address rapid wear on the face of hydraulic lifters	08/15/12 1036.5	Superseded by 2009-24-52.	X		Tory Nicholson WS9R575J
2009-24-52	To address rapid wear on the face of hydraulic lifters	08/15/12 1036.5	Superseded by 2010-11-04.	X		Tory Nicholson WS9R575J
2009-26-12	To prevent loss of engine power due to cracks at the head-to-barrel interface and possible engine failure caused by separation of a cylinder head	08/15/12 1036.5	N/A per cylinder serial numbers.	X		Tory Nicholson WS9R575J
2010-11-04	To prevent excessive hydraulic lifter wear	08/15/12 1036.5	Installed overhauled lifters P/N: 653888 & 653877.	X		Tory Nicholson WS9R575J
2012-03-06	To prevent an in-flight shutdown due to a failed fuel servo diaphragm	08/15/12 1036.5	P/N: AV2541801 or AV2541803 diaphragm not installed.	X		Tory Nicholson WS9R575J

Gradisar Aviation

N6007E D-5915
TT 4050.5 TSMO 0.0

September 18, 2012

Engine Log Entry

Performed annual inspection per FAR 43 appendix D.

Removed engine and sent to Western Skyways. Reinstalled engine after overhaul.

Installed PMA approved Sky-Tec starter part number C12ST3.

I certify that this engine has been inspected in accordance with and annual inspection and is approved for return to service.

Christopher Gradisar

AP3301600IA

Engine Oil Change

1/5/2013
Date

4075.4 Hrs
Tach Time

Gradisar Aviation
(214) 923-8613

Oil Type: Aeroshell 100 weight

Oil Amount: 9 quarts

Oil Additive:

Oil Filter: Champion 48102-1 ☐ Oil Screen Cleaned

Oil Analysis:

- ☐ Spectro
- ☐ Wear Check
- ☐ AOA

- ☒ Ground Run
- ☒ Leak Check
- ☐ Washed
- ☒ OK to return to service

25 Hrs
Hours Since
Last Oil Change

2 Qts
Oil Consumed
Since
Last Oil Change

- ☐ Owner/Operator
- ☐ Other:

Gradisar Aviation

N6007E D-5915 July 1, 2013
Total Time 4099.9 Hour meter 3999.9

Engine Log Entry

Performed 100 hour inspection per FAR 43 appendix D.

Changed oil and filter, serviced using Aeroshell W100 oil. Ground ran and checked for leaks.

Compression shows, 76/80, 77/80, 78/80, 78/80, 78/80, 78/80.

I certify that this engine has been inspected in accordance with a 100 hour inspection and is approved for return to service.

Christopher Gradisar

AP3301600IA

8/19/13 T-4029.89

Removed starter drive adaptor for overhaul.

Reinstalled, function check was normal.

Charles Schandelmeier IA3575997

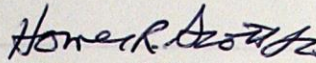
12/3/13 Tach/Time 4033.22

Change oil & filter. Serviced with 9 qts of
100w oil and a CH48 109 filter.

Charles Schandelmeier, IA3575997

Date: 08/16/2015 Tach: 4068.6 SMOH:118.1 A/C TT:4168.6

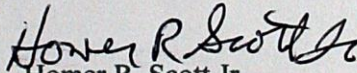
Compressions: #1 75/80, #2 75/80, #3 75/80, #4 75/80 #5 75/80 #6 74/80.
Checked AD's thru 2014-05B. Changed oil (Aero Shell 15w50) and filter
(Champion 48109-1). I certify this engine has been inspected in
accordance with a 100 hour inspection and determined to be in airworthy
condition.



Homer R. Scott Jr.
AP 3036905 IA

Date: 11/02/2015 Tach: 4129.0 SMOH:179.1 Eng TT:1388.7

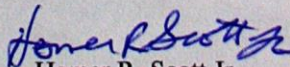
Compressions: #1 78/80, #2 78/80, #3 78/80, #4 76/80 #5 78/80 #6 78/80.
Checked AD's thru 2015-08B. Changed oil (Aero Shell 15w50) and filter
Champion 48109-1). Cleaned and checked spark plugs. I certify this engine has
been inspected in accordance with a 100 hour inspection and determined to be in
airworthy condition.



Homer R. Scott Jr.
AP 3036905 IA

Date: 11/11/2016 Tach: 4176.8 SMOH:226.3 Eng TT:1435.9

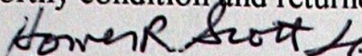
Compressions: #1 78/80, #2 76/80, #3 78/80, #4 78/80 #5 76/80 #6 76/80.
Checked AD's thru 2016-Aug. Changed oil (Aero Shell 15w50) and filter
(Champion 48109-1). Cleaned and checked spark plugs, installed new spark plug
gaskets. Inspected air filter. I certify this engine has been inspected in accordance
with a 100 hour inspection and determined to be in airworthy condition and
returned to service.



Homer R. Scott Jr.
AP 3036905 IA

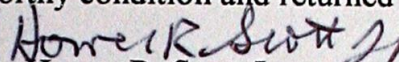
Date: 11/15/2017 Tach: 4224.0 SMOH: 273.5 Eng TT: 1483.1

Compressions: #1 78/80, #2 78/80, #3 79/80, #4 78/80 #5 79/80 #6 76/80.
Checked AD's thru 2017-Oct. Changed oil (Aero Shell 15w50) and filter
(Tempest AA 48109). Cleaned and checked spark plugs, replaced top spark plug
number 2 cylinder with new Champion REM 38S fine wire plug.
I certify this engine has been inspected in accordance with a 100 hour inspection
and determined to be in airworthy condition and returned to service.


Homer R. Scott Jr.
AP 3036905 IA

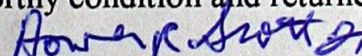
Date: 11/26/2018 Tach: 4265.0 SMOH: 315.5 Eng TT: 1524.1

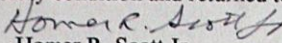
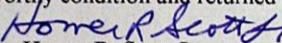
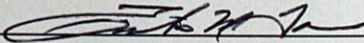
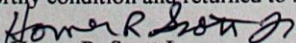
Compressions: #1 76/80, #2 76/80, #3 78/80, #4 75/80 #5 76/80 #6 76/80.
Checked AD's thru 2018-22. Changed oil (Aero Shell 15w50) and filter
(Tempest AA 48109). Cleaned and rotated spark plugs.
I certify this engine has been inspected in accordance with a 100 hour inspection
and determined to be in airworthy condition and returned to service.


Homer R. Scott Jr.
AP 3036905 IA

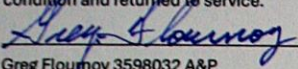
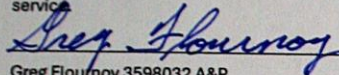
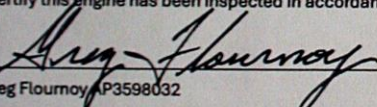
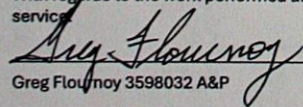
Date: 11/21/2019 Tach: 4311.0 SMOH: 361.5 Eng TT: 1570.1

Compressions: #1 72/80, #2 74/80, #3 78/80, #4 77/80 #5 75/80 #6 75/80.
Checked AD's thru 2019-22. Changed oil (Aero Shell 15w50) and filter
(Tempest AA 48109). Cleaned and rotated spark plugs.
I certify this engine has been inspected in accordance with a 100 hour inspection
and determined to be in airworthy condition and returned to service.


Homer R. Scott Jr.
AP 3036905 IA

DATE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED – SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
		Date: 12/01/2020 Tach: 4353.0 SMOH: 403.5 Eng TT:1612.1 Compressions: #1 72/80, #2 76/80, #3 77/80, #4 73/80 #5 77/80 #6 76/80. Checked AD's thru 2020-22. Washed engine with solvent. Changed oil (Aero Shell 15w50) and filter (Tempest AA 48109). Cleaned and rotated spark plugs. Replaced top #4 cylinder spark plug with new Champion REM-38S fine wire plug. I certify this engine has been inspected in accordance with a 100 hour inspection and determined to be in airworthy condition and returned to service.  Homer R. Scott Jr. AP 3036905 IA
		Date: 11/16/2021 Tach: 4392.0 SMOH: 442.5 Eng TT:1651.1 Compressions: #1 76/80, #2 75/80, #3 76/80, #4 76/80 #5 78/80 #6 77/80. Checked AD's thru 2021-22. Changed oil (Aero Shell 15w50) and filter (Tempest AA 48109). Cleaned and rotated spark plugs, installed new gaskets. Run engine checked for leaks, non found. I certify this engine has been inspected in accordance with a 100 hour inspection and determined to be in airworthy condition and returned to service.  Homer R. Scott Jr. AP 3036905 IA
8-5-2022 44220		REPLACE FUEL PUMP SHAFT SEAL PN: 628178 AND GASKETS PN: 632816 & 534941. OPERATIONAL CHECK GOOD & LEAK CHECKED  AP 2845378
		Date: 11/26/2022 Tach: 4436.0 SMOH: 486.5 Eng TT:1739.1 Compressions: #1 75/80, #2 75/80, #3 77/80, #4 77/80 #5 78/80 #6 78/80. Checked AD's thru 2023-24. Changed oil (Aero Shell 15w50) and filter (Champion 48109-1). Cleaned and rotated spark plugs, installed new gaskets. Run engine checked for leaks, non found. I certify this engine has been inspected in accordance with a 100 hour inspection and determined to be in airworthy condition and returned to service.  Homer R. Scott Jr. AP 3036905 IA

DATE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED – SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK	Page No. _____
		Date: 12/11/2023 Tach: 4461.0 SMOH: 511.5 Eng TT:1764.1 Compressions: #1 75/80, #2 75/80, #3 75/80, #4 76/80 #5 78/80 #6 76/80. Checked AD's thru 2023-24. Changed oil (Aero Shell 15w50) and filter (Tempest AA48109-1). Cleaned and rotated spark plugs, installed new gaskets. Removed left and right Magneto's sent to Velocity Shoppe for 500 hour Inspection (see work orders 815803 & 815804 for details). Reinstalled on engine. Ran engine checked mags and engine for leaks, non-found. I certify this engine has been inspected in accordance with a 100 hour inspection and determined to be in airworthy condition and returned to service. <i>Homer R. Scott Jr.</i> Homer R. Scott Jr. AP 3036905 IA	
1-25-24	4463.0	Replace Alternator Belt TCM CONT. 5395-40-31,19 <i>Homer R. Scott Jr.</i> AP 3036905	
		Date: 12/12/2024 Tach: 4481.0 SMOH: 531.5 Eng TT:1784.1 Compressions: #1 74/80, #2 76/80, #3 75/80, #4 75/80 #5 78/80 #6 76/80. Checked AD's thru 2024-24. Changed oil (Aero Shell 15w50) and filter (Tempest AA48109-1). Cleaned and rotated spark plugs, installed new gaskets. Replaced left exhaust tail pipe clamp. Ran engine checked mags and engine for leaks, none-found. I certify this engine has been inspected in accordance with an Annual / 100 hour inspection and determined to be in airworthy condition and returned to service. <i>Homer R. Scott Jr.</i> Homer R. Scott Jr. AP 3036905 IA	
03-07-2025		N6007E Tach: 4509.81 Engine SN: 295537-R SMOH: 560.3 Engine TT: 1812.9 Beechcraft Bonanza K35 SN: D-5915 A/C Total Time: 4609.81 Replaced alternator battery cable PN M22759/16-8 12814 with new cable PN E56609 LL36118, 6 AWG referencing AC 43.13-1B Acceptable Methods, Techniques, and Practices - Aircraft Inspection and Repair, Figure 11-2, pg 11-30 and as per example. Performed alternator brush assembly inspection referencing Plane Power SAL12-70C Installation Instructions 14-6001 Rev. D, pg 4, Part 3, Instructions for Continued Airworthiness and AL 12/24, 60/70 amp Alternator 10-1020 Brush Assembly Inspection/Replacement. No issues found. Complied with Hartzell Engine Tech Service Bulletin (SB) No. 209, Alternator Mounting Bracket Inspection. No issues found. Operational checks satisfactory. With regards to the work performed above, I certify this engine is considered to be in an airworthy condition and returned to service. <i>Greg Flournoy</i> Greg Flournoy 3598032 A&P	

DATE	RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED – SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK	
05-07-2025	N6007E	Tach: 4524.5	
Engine SN: 295537-R	SMOH: 575	Engine TT: 1827.6	
Beechcraft Bonanza K35	SN: D-5915	A/C Total Time: 4624.5	
Installed throttle return spring PN 628371 and adjusted panel friction lock on throttle cable. Operational checks satisfactory. With regards to the work performed above, I certify this engine is considered to be in an airworthy condition and returned to service.  Greg Flourney 3598032 A&P			
06-08-2025	N6007E	Tach: 4532.5	
Engine SN: 295537-R	SMOH: 583	Engine TT: 1835.6	
Beechcraft Bonanza K35	SN: D-5915	A/C Total Time: 4632.5	
Changed oil adding 8 quarts of Aero Shell 15w50 and replaced filter using Champion CH48109-1. Ran engine for leak check, no leaks found. With regards to the work performed above, I certify this engine is considered to be in an airworthy condition and returned to service.  Greg Flourney 3598032 A&P			
03-25-2026	N6007E	Tach: 4561.6	
Engine SN: 295537-R	SMOH: 612.1	Engine TT: 1864.7	
Beechcraft Bonanza K35	SN: D-5915	A/C Total Time: 4661.6	
C/W 100-hour Inspection this date IAW FAR Part 43 Appendix D using the Hawker Beechcraft 100-hour Long Form Inspection Guide. • Compressions: #1 78/80, #2 79/80, #3 78/80, #4 79/80, #5 78/80, #6 80/80; Master Orifice = 34 lbs at 63 deg F, engine hot. • Cleaned and rotated spark plugs, installed new gaskets. • Cleaned fuel injection nozzles per GAMI Installation Procedure and Instructions for Continued Airworthiness No. IP-96-001 (Rev. 010) Date: June 15, 2023. • Adjusted magneto timing per engine data plate. Mag check OK. • Cleaned fuel servo screen and replaced gasket PN 649983. • Replaced 3 spark plug wire grommets PN MS35489-6 in cylinder baffling. All work performed referencing Hawker Beechcraft Bonanza 33, 35 and 36 100-hour Long Form Inspection guide PN 98-32227R April 1, 2011, Section B. Power Plant and Beechcraft Bonanza Illustrated Parts Catalog PN 35-590015-9C5 Rev June 26, 1987. I certify this engine has been inspected in accordance with a 100-hour inspection and returned to service.  Greg Flourney P3598032			
05-09-2026	N6007E	Tach: 4574.5	
Engine SN: 295537-R	SMOH: 625	Engine TT: 1877.6	
Beechcraft Bonanza K35	SN: D-5915	A/C Total Time: 4674.5	
Changed oil adding 9 quarts of Aero Shell 15w50, 13 oz. CamGuard and replaced filter using Tempest AA48109-2. Oil sample sent for analysis. Ran engine for leak check, no leaks found. With regards to the work performed above, I certify this engine is considered to be in an airworthy condition and returned to service.  Greg Flourney 3598032 A&P			