



WESTERN
Skyways
INC.

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Gold Seal Aircraft Engines

ENGINE MAINTENANCE RECORDS

21 Creative Pl. Montrose, CO 81401
(970) 249-0232 • 800-575-9929 • FAX (970) 249-4155
www.westernskyways.com



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Montrose, CO 81401
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(800) 575-9829
(970) 249-0232
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Engine Make: CONTINENTAL Model: IO-550-N
Serial Number: 691442 W/O No: W054016 Date: 16 FEB 2018
Warranty Number: B18048 Warranty Start Date: 02/18
Crankshaft Serial No: N07HA155 Cylinder Part Number: CMI 658595-A2BP NEW

This engine and accessories listed below were overhauled to "Factory New Tolerances" per Overhaul Manual No: M-16 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: 1539.7 Hrs.

This engine meets requirements of CONTINENTAL M-0 for 2000.0 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-500556-101	D17FA182R	Vac Pump:	N/A	N/A
R/H Mag:	BL-500556-101	D17GA031R	Wastegate:	N/A	N/A
Fuel Pump:	ETI-SR22-2-12	GP5090	Alt/Gen:	N/A	N/A
Inj/Carb:	653353-8A1	A07IA050	Press Rel Val.:	N/A	N/A
Man Valve:	646433-9A4	C07IA303	Pop Off.:	N/A	N/A
Starter:	C24ST3 NEW	H-R082463	Controller :	N/A	N/A
Turbo:	N/A	N/A	Prop Gov: Slope:	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: AC17HB469	#5: AC17GA618
#2: AC17HB449	#6: AC17GA662
#3: AC17LA350	#7: N/A
#4: AC17HB495	#8: N/A

**DESCRIPTION OF WORK PERFORMED –
SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK**

Page 1 of 1

AD NOTES COMPLIANCE RECORD

Engine - Continental Motors - IO-550-N

S/N: 691442

Western Skyways, Inc.
CRS # WS9R575J
W/O# W054016

AD#	Applicable S.B. # & Subject	Date & Hours @ Comp.	Method of Compliance	Weight Restrictions	Next Check @ Interval	Signature & Number
74-28-09	Bendix magnetos	16 FEB 2018 1539.7	N/A per magneto model number.	X		Larry Flatten CRS# WS9R575J
82-20-01	Bendix magnetos	16 FEB 2018 1539.7	N/A per magneto model number.	X		Larry Flatten CRS# WS9R575J
88-03-06	Oil filter	16 FEB 2018 1539.7	Installed oil filter P/N: CH48108-1	X		Larry Flatten CRS# WS9R575J
91-19-03	Champion oil filter	16 FEB 2018 1539.7	Installed oil filter P/N: CH48108-1.	X		Larry Flatten CRS# WS9R575J
93-08-17	Incorrect oil pick-up tube	16 FEB 2018 1539.7	N/A per engine model.	X		Larry Flatten CRS# WS9R575J
93-10-02	Cylinder valve retainer	16 FEB 2018 1539.7	Installed NEW CMI cylinders.	X		Larry Flatten CRS# WS9R575J
94-01-03 R2	Teledyne/Bendix magnetos	16 FEB 2018 1539.7	N/A per magneto serial number.	X		Larry Flatten CRS# WS9R575J
94-06-09	Teledyne/Bendix magnetos	16 FEB 2018 1539.7	N/A per magneto serial number.	X		Larry Flatten CRS# WS9R575J
99-19-01	Crankshaft failure	16 FEB 2018 1539.7	N/A per crankshaft S/N: N07HA155.	X		Larry Flatten CRS# WS9R575J
2000-23-21	Fracture of the crankshaft connecting rod journal	16 FEB 2018 1539.7	N/A per crankshaft S/N: N07HA155.	X		Larry Flatten CRS# WS9R575J
2004-08-10	Prevent loss of engine power	16 FEB 2018 1539.7	Installed NEW CMI cylinders.	X		Larry Flatten CRS# WS9R575J
2010-11-04	To prevent excessive hydraulic lifter wear	16 FEB 2018 1539.7	Installed overhauled lifters P/N: 653886 and 653877.	X		Larry Flatten CRS# WS9R575J
2012-03-06	To prevent an in-flight shutdown due to a failed fuel servo diaphragm	16 FEB 2018 1539.7	N/A, fuel injection servo not used on this engine.	X		Larry Flatten CRS# WS9R575J
2012-10-13	To prevent starter adapter gear shaft failure	16 FEB 2018 1539.7	N/A per starter adapter part number 653440A1	X		Larry Flatten CRS# WS9R575J
2014-05-29	Superior Air Parts Investment Cast Cylinder Assemblies	16 FEB 2018 1539.7	Installed NEW CMI cylinders.	X		Larry Flatten CRS# WS9R575J
2016-16-12	ECI Class 71 or Class 76 Cylinder Assembly Failures	16 FEB 2018 1539.7	Installed NEW CMI cylinders.	X		Larry Flatten CRS# WS9R575J



WESTERN Skyways INC.

GOLD SEAL AIRCRAFT ENGINES

21 Creative Place Montrose, CO 81401 CRS # WS9R575J

Engine Model: IO-550-N

Serial Number: 691442

Time: 1539.7 TTE

Work Order: W054016

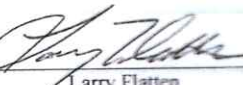
Date: 16 FEB 2018

Installed S539800M30 starter adapter spring in accordance with Aircraft Specialties Inc. STC SE09846SC and Aircraft Specialties services Service Bulletin No.: S-2008-01, Rev. 0, or later FAA approved revision. Starter Adapter was overhauled in accordance with Continental Motors Overhaul Manual M-16 and applicable Service Information.

Installed Cam Gear P/N: 656818. This satisfies the requirements of MSB05-8C.

GAMI Injector kit, TIGT550-19B, S/N: 17104 reinstalled per GAMI installation procedure IP-2001-02 (rev NC) dated 25 MAR 2001.

The engine and/or component identified above was overhauled and inspected IAW current FAA Regulations and found Airworthy for return to service. Pertinent details of this repair are on file at this repair station under above work order.

Signed: 
Larry Flatten
CRS# WS9R575J

FORM 201E

Date 3/29/2019

W/O# 17412



Engine Logbook Entry AIRCRAFT: N 868SR

CRS AWKR298C

S/N 2860

25170 Aviation Ave., Davis, CA 95616

Tach / Flight 1695.2 COMPLIED WITH AN ANNUAL INSPECTION THIS DATE PER FAR 43 APPENDIX D. ALL WORK COMPLETED IN ACCORDANCE WITH APPLICABLE MANUALS.

Eng TSN 1695.2 COMPLIED WITH DIFFERENTIAL COMPRESSION CHECK PER CMI STANDARD PRACTICES MAINTENANCE MANUAL. COMPRESSION TEST RESULTS: #1- 64/80, #2- 64/80, #3- 66/80, #4- 68/80, #5- 62/80, #6- 68/80. MASTER ORIFICE: 42/80.

Eng TSO 155.5

TTAF 1695.2 DRAINED OIL AND REMOVED FILTER. OPENED FILTER AND INSPECTED FOR METAL AND DEBRIS; NO DISCREPANCIES NOTED. OIL SAMPLE RECOVERED AND SENT OUT FOR ANALYSIS. INSTALLED NEW FILTER AND SERVICED ENGINE WITH PHILLIPS 20W-50 X/C ENGINE OIL AND 1 PINT OF CAMGUARD. REMOVED LEFT EXHAUST TAIL PIPE, REMOVED DUMP TUBE, CLEANED AND APPLIED ANTI SEIZE. REINSTALLED. INSTALLED NEW RIGHT TAILPIPE P/N 22-6150021. INSTALLED NEW LEFT TURBO SUPPORT ROD TEFLON SLEEVE. INSTALLED NEW LEFT WASTEGATE SUPPORT BUSHING. INSTALLED NEW LEFT TAILPIPE INBOARD SPRING. INSTALLED NEW RIGHT WASTEGATE KNUCKLE WITH NEW PINS. INSTALLED NEW LEFT UPPER THROUGH STUD O-RING. REINSTALLED #4 CYLINDER EXHAUST RISER AFTER REPAIR BY DAWLEY AVIATION CRS# J5R069N W.O. 118594.

The Aircraft and/or component identified above was repaired and inspected IAW FAA regulations and was found airworthy to return to service only for the work performed.

Pertinent details of the repair are on file at this agency: Signed: *[Signature]*

Shawn Matthies AWKR298C

I certify that this Aircraft/Engine/Propeller has been inspected IAW an Annual inspection and was determined to be in an airworthy condition. Signed *[Signature]*

Shawn Matthies AWKR298C

Date 5/13/2019

W/O# 17648



Engine Logbook Entry

AIRCRAFT: N 868SR

CRS AWKR298C

S/N 2860

25170 Aviation Ave., Davis, CA 95616

Tach ~~1063.2~~ 1704.6 REMOVED ALTERNATOR #1 P/N 656802 S/N H-Q040870. INSTALLED NEW ALTERNATOR P/N 656802 S/N H-S072395. OPERATIONAL AND LEAK CHECKED GOOD.

The Aircraft and/or component identified above was repaired and inspected IAW FAA regulations and was found airworthy to return to service only for the work performed. Pertinent details of the repair are on file at this agency: Signed: *[Signature]*

Shawn Matthies AWKR298C

Date 3/10/2020

W/O# 18324



Engine Logbook Entry

AIRCRAFT: N 868SR

CRS AWKR298C

S/N 2860

25170 Aviation Ave., Davis, CA 95616

Tach / Flight 1,775.90 COMPLIED WITH AN ANNUAL INSPECTION THIS DATE PER FAR 43 APPENDIX D. ALL WORK COMPLETED IN ACCORDANCE WITH APPLICABLE MANUALS.

Eng TSN 1,775.90 COMPLIED WITH CIRRUS MANDATORY SB2X-71-33 BY COMPLETION OF CMI SB18-08 INSPECTION AND MAINTENANCE MODIFICATION OF CYLINDER ASSEMBLIES. CYLINDER SERIAL NUMBERS, #1 - AC17HB469, #2 - AC17HB449, #3 - AC17IA350, #4 - AC17HB495, #5 - AC17GA618, #6 - AC17GA662. ALL 6 CYLINDERS WERE INSPECTED, MODIFIED AND STAMPED WITH AN "S" PER SB18-08.

Eng TSO 236.2

TTAF 1,775.90 COMPLIED WITH CIRRUS SA19-18 INSPECTION OF ALTERNATOR CASTELLATED HEX NUT INSPECTION PER HET SB 081. COMPLIED WITH PARAGRAPH 3.B.(4) OF HARTZELL ENGINE TECHNOLOGIES ASB 081. ALTERNATOR P/N 656802 S/N H-S072395.

DRAINED OIL AND REMOVED FILTER. OPENED FILTER AND INSPECTED FOR METAL AND DEBRIS. NO DISCREPANCIES NOTED. OIL SAMPLE RECOVERED AND SENT OUT FOR ANALYSIS. INSTALLED NEW FILTER AND SERVICED ENGINE WITH PHILLIPS 20W-50 X/C ENGINE OIL AND 1 PINT CAMGUARD.

COMPLIED WITH DIFFERENTIAL COMPRESSION TEST RESULTS: #1- 56/80, #2- 70/80, #3- 68/80, #4- 62/80, #5- 58/80, #6- 60/80. MASTER ORIFICE: 40/80.

INSTALLED NEW RH SLAVE WASTEGATE WITH NEW ACTUATOR ARM HARDWARE AND RIGGED CROSSOVER CABLE. ADJUSTED RIGHT MAGNETO TO ENGINE TIMING.

The Aircraft and/or component identified above was repaired and inspected IAW FAA regulations and was found airworthy to return to service only for the work performed.

Pertinent details of the repair are on file at this agency: Signed: *[Signature]*

Shawn Matthies AWKR298C

I certify that this Aircraft/Engine/Propeller has been inspected IAW an Annual inspection and was determined to be in an airworthy condition. Signed *[Signature]*

Shawn Matthies AWKR298C

September 27, 2023 N868SR S/N: 2860 Flight Time: 2,049.7 Hobbs: 2,451.6

1. Number 4 cylinder removed and replaced with new Continental (P/N: 658828A2 S/N: AC21IC586).
2. Number 4-cylinder Piston Pin removed and replaced with new Superior (P/N: SA630046).
3. Left Exhaust removed and reinstalled after repaired by TATI.
4. Fuel injectors removed, cleaned and reinstalled with new gasket kit (P/N: ORW-GTIGT).

Ran engine, operational checks performed with no defects at this time. All maintenance was performed in accordance with the manufacturer's maintenance manual and the AC 43.13-1B. I certify this ENGINE is approved for return to service for the work performed. **END.**



Box Aviation, Inc.
Montgomery, AL
334-281-9005

William Erik Box
AP35545141A

Go to avery.com/templates
Use Avery Template 5168

September 27, 2023 N868SR S/N: 2860 Flight Time: 2,049.7 Hobbs: 2,451.6

1. Removed and replaced all spark plugs with new Tempest (P/N: URHB32E).

Operational checks performed with no defects noted at this time. All maintenance was performed in accordance with the manufacturer's maintenance manual and the AC 43.13-1B. I certify this ENG approved for return to service for the work performed. **END**



Box Aviation, Inc.
Montgomery, AL
334-281-9005

Adam Rexroad
AP3399879