

Log book #2

ENGINE MAINTENANCE RECORDS



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WESTERN Skyways INC.

GOLD SEAL AIRCRAFT ENGINES

31 Creative Place
Martinez, CA 94501
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(925) 975-9889
(925) 248-0292
FAX: (925) 248-4156

Engine Make: CONTINENTAL Model: IO-550-N TN
 Serial Number: 691783 W/O No: W051119 Date: 01/15/15
 Warranty Number: A15002 Warranty Start Date: 01/15
 Crankshaft Serial No: N08EA041 Cylinder Part Number: EC1CFCN73.1CA OH

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: 1506.4 Hrs.

This engine meets requirements of CONTINENTAL SIL-98C 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:	10-500556-101	D08EA224	Vac Pump:	N/A	N/A
R/H Mag:	10-500556-101	D08BA248	Wastegate:	470842-0004	KLN00158
Fuel Pump:	ETI-SR22-2-12	GP5418	Alt/Gen:	N/A	N/A
Inj/Carb:	653353-8A1	A08EA198	Press Rel Val:	N/A	N/A
Man Valve:	646433-9A4	C08EA202	Pop Off:	470944-0017	KJN00136
Starter:	C24ST5	4C5-271411	Controller:	N/A	N/A
Turbo:	466304-0003	LLL00036	Controller:	N/A	N/A
			Turbo 2:	466304-0003	KKL01395

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: 51062-1	#5: 51062-5
#2: 51062-2	#6: 51062-6
#3: 51062-3	#7: N/A
#4: 51062-4	#8: N/A

DATE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED – SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
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AD NOTES COMPLIANCE RECORD

Engine - Continental Motors - IO-550-N
 S/N: 691783 Western Skyways, Inc.
 CRS # WS9R57J
 WFO# W051119

Appliance - Magnetos - TCM (formerly Bendix) S-20 series
 S/N: D08EA224 & D08BA249 P/N: 10-500556-1
 Model # S6RSC-25

Appliance - Turbochargers - Hartzell Engine Technologies
 S/N: LLL00096 & KKL01395 P/N: 466304-0003

Appliance - Cylinder assembly - Engine Components Incorporated (ECI)
 S/N: 51062-1, 51062-2, 51062-3, 51062-4, 51062-5, 51062-6 P/N: CFCN73.1CA

AD#	Applicable S.B. # & Subject	Date & Hours @ Comp.	Method of Compliance	Out Time	Recurring	Next Comp. @ Hrs/Date	Authorized Signature & Number
74-28-09	Bendix magnetos	01/15/15 1506.4	N/A per magneto model number.		X		Larry Flatten CRS# WS9R575J
82-20-01	Bendix magnetos	01/15/15 1506.4	N/A per magneto model number.		X		Larry Flatten CRS# WS9R575J
88-03-06	Oil filter	01/15/15 1506.4	N/A per oil filter P/N: AA48106-2		X		Larry Flatten CRS# WS9R575J
91-19-03	Champion oil filter	01/15/15 1506.4	N/A per oil filter P/N: AA48106-2		X		Larry Flatten CRS# WS9R575J
93-08-17	Incorrect oil pick-up tube	01/15/15 1506.4	N/A per engine model.		X		Larry Flatten CRS# WS9R575J
93-10-02	Cylinder valve retainer	01/15/15 1506.4	N/A per cylinder manufacturer.		X		Larry Flatten CRS# WS9R575J
94-01-03 R2	Teledyne/Bendix magnetos	01/15/15 1506.4	N/A per magneto serial number.		X		Larry Flatten CRS# WS9R575J
94-06-09	Teledyne/Bendix magnetos	01/15/15 1506.4	N/A per magneto serial number.		X		Larry Flatten CRS# WS9R575J
99-19-01	Crankshaft failure	01/15/15 1506.4	N/A per crankshaft S/N: N08EA041.		X		Larry Flatten CRS# WS9R575J
2000-23-21	Fracture of the crankshaft connecting rod journal	01/15/15 1506.4	N/A per crankshaft S/N: N08EA041		X		Larry Flatten CRS# WS9R575J
2004-08-16	Prevent loss of engine power	01/15/15 1506.4	N/A per cylinder part number.		X		Larry Flatten CRS# WS9R575J
2006-12-06	Prevent failure of the magneto impulse coupling assembly	01/15/15 1506.4	N/A per engine manufacture		X		Larry Flatten CRS# WS9R575J
2007-16-10	To prevent the turbine rotor from separating from the shaft of the turbocharger due to a machining defect in the turbocharger compressor	01/15/15 1506.4	N/A per turbocharger serial numbers.		X		Larry Flatten CRS# WS9R575J
2010-11-04	To prevent excessive hydraulic filter wear	01/15/15 1506.4	N/A, installed overhauled filters P/N: 653888 & 653877		X		Larry Flatten CRS# WS9R575J

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AD#	Applicable S.B. # & Subject	Date & Hours @ Comp.	Method of Compliance	Out Time	Recurring	Next Comp. @ Hrs/Date	Authorized Signature & Number
2012-03-06	To prevent an in-flight shutdown due to a failed fuel servo diaphragm	01/15/15 1506.4	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	01/15/15 1506.4	N/A, starter adapter not purchased from TCM in 2011		X		Larry Flatten CRS# WS9R575J
2012-10-02	To address incorrectly located oil passages in the center housing, causing insufficient oil flow to the bearings	01/15/15 1506.4	N/A per turbocharger part numbers		X		Larry Flatten CRS# WS9R575J
2013-21-02	Turbine Wheel Head And Shaft Welding Joint	01/15/15 1506.4	N/A per engine model.		X		Larry Flatten CRS# WS9R575J
2014-06-29	Superior Air Parts Investment Cast Cylinder Assemblies	01/15/15 1506.4	N/A per cylinder manufacture.		X		Larry Flatten CRS# WS9R575J

DATE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED - SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
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ENGINE MODEL: IO-550-N (51)
 ENGINE S/N: 691783
 REG. NO. N811JT
 WORK ORDER: 114937


 **Clear Star Aviation**
 4765 Frank Luke Dr
 Addison, TX 75001
 Phone: 972-267-2376

DATE: 2/11/2015
 A/C TSN: 1506.4
 ENG TT: 1506.4
 FLIGHTTIME: 1506.4

Engine Entries

Performed engine 100 HR inspection in accordance with current Cirrus Design Aircraft Maintenance Manual 5-20 and 5-30. Found Absolute Pressure Controller to be bad. Installed new absolute pressure controller P/N 470688-5-E S/N LFR0137. Removed engine Western Skyways and TCM MM. Ops checks normal. The oil changed and serviced with 8 quarts of Phillips 20W-50 X/C and a new AA48108-2 filter. Inspected the turbo system in accordance with the instructions for continued airworthiness document 22-6460004 anti-chafe pad. Installed new #2 Alternator belt. Installed new waste gate interconnect cable P/N 22-5650009. Installed new intake Y intake scat hoses and applied red RTV on tears. Installed two new exhaust forward heat shields. Cleaned engine

Researched AD's through bi-weekly issue of this date, all AD's are in compliance at this time. I certify that this engine has been inspected in accordance with a 100HR inspection and was determined to be in airworthy condition. I have reviewed the file on this aircraft and the accompanying discrepancy forms. The aircraft, airframe, aircraft engine, propeller, or appliance identified was repaired/inspected in accordance with current requirements of the Federal Aviation Administration and is approved for return to service. Pertinent details of repair are on file at this Certified Repair Station 5CSR009B.

DATE: 2/11/2015 SIGNED:  Work Order: 114937
 Printed by EBis 3 (datcomedia.com)

ENGINE MODEL: IO-550-N (51)
 ENGINE S/N: 691783
 REG. NO: N811JT
 WORK ORDER: 115038

 **Clear Star Aviation**
 4765 Frank Luke Dr
 Addison, TX 75001
 Phone: 972-267-2376

DATE: 2/18/15
 A/C TSN: 1511.8
 ENG TT: 1511.8
 FLIGHTTIME: 1511.8

Engine Entries

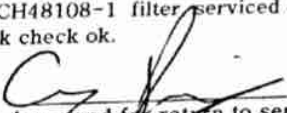
The oil and filter was changed and serviced with 8 quarts of Phillips 20W-50 X/C and a new AA48108-2 filter. An oil sample was collected for analysis by Blackstone Laboratories. Adjusted cruise RPM per Cirrus AMM.

Researched AD's through bi-weekly issue of this date, all AD's are in compliance at this time. I certify that this engine has been inspected in accordance with a 100HR inspection and was determined to be in airworthy condition. I have reviewed the file on this aircraft and the accompanying discrepancy forms. The aircraft, airframe, aircraft engine, propeller, or appliance identified was repaired/inspected in accordance with current requirements of the Federal Aviation Administration and is approved for return to service. Pertinent details of repair are on file at this Certified Repair Station 5CSR009B.

DATE: 2/18/15 SIGNED:  Work Order: 115038
 Printed by EBis 3 (datcomedia.com)

Abilene Aero Inc. 2850 Airport Blvd. Abilene TX 79601 WO# 13592 Registration# N811JT Date: 4/30/15
 Engine S/N 691783 Meter: 1538.6

- ◆ Removed and installed new EGT probe P/N 24585-001. Ops check ok
- ◆ Removed fuel nozzle 2,4,6 flow checked, inspected, cleaned, and reinstalled. Leak check ok.
- ◆ Drained oil, removed filter, inspected filter media, installed a new P/N CH48108-1 filter, serviced engine with 8 quarts Phillips 66 X/C 15w-50 oil. Washed engine ground run ops and leak check ok.


 Approved for return to service

ABILENE AERO INC.

DATE: 9/9/15 **N#** 811JT
H.M. 1572.8 **W.O.** 15-13735

1 OF WORK PERFORMED -
TE NO. OF PERSON PERFORMING WORK

**ALL WORK ACCOMPLISHED IAW
MANUFACTURERS APPROVED DATA.**

**DRAINED OIL CHANGED AND INSPECTED FILTER
SERVICED 7 QUARTS PHILLIPS 20W50 X/C OIL
GROUND RUN OPS AND LEAK CHECK OK**

George Wilkins

**THE ABOVE REPAIR APPROVED FOR
RETURN TO SERVICE. APP 450828487**

Blank lines for recording work performed and person performing work.

Abilene Aero Inc. 2850 Airport Blvd. Abilene TX 79601 **WO#** 13798 **Registration#** N811JT **Date:** 10/23/15
Engine S/N 691783 **Meter:** 1583.7

Drained oil, removed filter, inspected filter media, installed a new P/N CH48108-1 filter, serviced engine with 7 quarts PhillipsXC 20W50. Washed engine ground run ops and leak check ok. Lengthened wastegate interconnect cable 2 turns as required.

Cory Rodriguez
Approved for return to service
Cory Rodriguez AP3654870

Blank lines for recording work performed and person performing work.

Abilene Aero Inc. 2850 Airport Blvd. Abilene TX 79601 **WO#** 13919 **Registration#** N811JT **Date:** 3/2/16
Engine S/N 691783 **Meter:** 1628.8 **Total Time:** 1628.8 **TSMOH:** 122.4
Airworthiness Directives Through 2015-04

I Certify this engine has been inspected IAW FAR 43 appendix D 100 hour inspection and found to be in an Airworthy condition.
◆Compression check #1 76/80 #2 78/80 #3 75/80 #4 76/80 #5 77/80 #6 75/80 **M.O 49.** ◆Drained oil, removed filter, inspected filter media, installed a new P/N CH48108-1 filter, serviced engine with 8 quarts Phillips X/C 20W50 oil. Washed engine ground run ops and leak check ok. ◆Removed, inspected, cleaned, gapped, tested and re-installed spark plugs. ◆Tested spark plug leads ok. ◆Checked magneto timing ok. ◆Removed cleaned inspected and reinstalled air filter. ◆Removed, cleaned, inspected, installed, and torqued, fuel nozzles.

Nathan Loflin
Approved for return to service
Nathan Loflin AP3669831

Blank lines for recording work performed and person performing work.

Blank lines for recording work performed and person performing work.