


WESTERN
Skyways
 INC.

GOLD SEAL AIRCRAFT ENGINES

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

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 (970) 249-0292
 FAX: (970) 249-4155

Engine Make: LYCOMING Model: O-540-L3C5D
 Serial Number: L-21347-40A W/O No: W056971 Date: 16 NOV 2020
 Warranty Number: K20305 3 YR WARR Warranty Start Date: NOV 2020
 Crankshaft Serial No: 91379 Cylinder Part Number: LYC 05K21231 NEW

This engine and accessories listed below were overhauled to "Factory New Tolerances" per Overhaul Manual No: 60294-7-14 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: 2878.2 Hrs.

This engine meets requirements of LYCOMING SI 1009BE 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.
Mag Left:	10-682560-11	228801	Pump Vac:	N/A	N/A
Mag Right:	DUAL	DUAL	Wastegate:	N/A	N/A
Fuel Pump:	AF-15473	0E0E16	Alt/Gen:	N/A	N/A
Inj/Carb:	10-6001	MS0D2F08	Relief Valve:	N/A	N/A
Man Valve:	N/A	N/A	Prop Governor:	N/A	N/A
Starter:	149NL/EC	H-U080487	Controller:	N/A	N/A
Turbo:	N/A	N/A	Controller:	N/A	N/A
			Turbo:	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: 187387-15	# 5: 187387-18
# 2: 187387-21	# 6: 187388-3
# 3: 187387-3	# 7: N/A
# 4: 187388-21	# 8: N/A

DATE _____

TAC REC'D _____

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AD NOTES COMPLIANCE RECORD

Engine - Lycoming Engines - O-540-L3C5D

S/N: L-21347-40A

Western Skyways Inc

WS9R575J

W/O: W056971

Appliance - Magnetos - TCM (formerly Bendix) D-3000 series S/N 228801

P/N: 10-682560-11

Model: D6LN-3000

Appliance - Carburetors - HA-6

S/N: MS07C603

P/N: 10-6001

Model: HA-6





AD#	Applicable S.B. # & Subject	Date & Hours @ Comp.	Method of Compliance	Recurring One Time	Next Comp. @ Hrs/Date	Authorized Signature & Number
59-10-07	Cylinder baffle clamps	16 NOV 2020 2878.2	Hooks and retainers provided. Not installed	X		Larry Flatten WS9R575J <i>FL</i>
63-14-03	Oil pump drive shaft	16 NOV 2020 2878.2	N/A per engine serial number		X N/A	Larry Flatten WS9R575J <i>FL</i>
64-16-05	Oil seal failure	16 NOV 2020 2878.2	Installed fuel pump P/N: AF-15473	X		Larry Flatten WS9R575J <i>FL</i>
66-20-04	Oil filter adaptor gasket	16 NOV 2020 2878.2	N/A per engine serial number	X		Larry Flatten WS9R575J <i>FL</i>
69-24-03	Marvel Schebler carburetors	16 NOV 2020 2878.2	N/A per carburetor part number	X		Larry Flatten WS9R575J <i>FL</i>
72-06-05 R2	Marvel Schebler carburetors	16 NOV 2020 2878.2	Installed new style levers.	X		Larry Flatten WS9R575J <i>FL</i>
73-23-01	Piston pin failures	16 NOV 2020 2878.2	Installed NEW piston pins P/N: LW13445	X		Larry Flatten WS9R575J <i>FL</i>
75-08-09	Oil pump	16 NOV 2020 2878.2	Installed new oil pump body, P/N: LW-10344 and impeller kit, P/N: 05K23463	X		Larry Flatten WS9R575J <i>FL</i>
77-13-16	Marvel Schebler carburetors	16 NOV 2020 2878.2	N/A per carburetor part number	X		Larry Flatten WS9R575J <i>FL</i>
79-08-06	Marvel Schebler carburetors	16 NOV 2020 2878.2	N/A per carburetor part number	X		Larry Flatten WS9R575J <i>FL</i>
82-20-01	Bendix magnetos	16 NOV 2020 2878.2	N/A per magneto serial number	X		Larry Flatten WS9R575J <i>FL</i>
87-10-06 R1	Rocker arm assemblies	16 NOV 2020 2878.2	Installed rocker arms P/N: 69444 and 74636	X		Larry Flatten WS9R575J <i>FL</i>
93-11-11	AC Textron Rajay fuel pumps	16 NOV 2020 2878.2	Installed NEW Tempest fuel pump P/N: AF-15473	X		Larry Flatten WS9R575J <i>FL</i>
94-25-04	Prevent the interruption of fuel flow to the engine	16 NOV 2020 2878.2	N/A per carburetor part number	X		Larry Flatten WS9R575J <i>FL</i>
95-07-01	Connecting rod bolts	16 NOV 2020 2878.2	Installed new connecting rod bolts, P/N: SL75061 and nuts, P/N: SL12186	X		Larry Flatten WS9R575J <i>FL</i>
96-09-10	Oil Pumps	16 NOV 2020 2878.2	Installed new oil pump body, P/N: LW-10344 and impeller kit, P/N: 05K23463	X		Larry Flatten WS9R575J <i>FL</i>

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AD#	Applicable S.B. # & Subject	Date & Hours @ Comp.	Method of Compliance	Recurring One Time	Next Comp. @ Hrs/Date	Authorized Signature & Number
96-23-03	High pressure fuel pumps	16 NOV 2020 2878.2	Installed NEW Tempest fuel pump P/N: AF-15473	X		Larry Flatten WS9R575J <i>FL</i>
2002-12-07	Prevent complete loss of engine oil	16 NOV 2020 2878.2	Complied with option 2 of Lycoming MSB543 by installation of converter plate and gasket, P/N: 06B23072. Terminating action completed	X	Terminating action completed.	Larry Flatten WS9R575J <i>FL</i>
2004-05-24	Prevent loss of all engine power and possible forced landing	16 NOV 2020 2878.2	Installed new bolt, P/N: AN8-14A.	X		Larry Flatten WS9R575J <i>FL</i>
2004-10-14	CORRECTION - Prevent loosening or failure of the crankshaft gear retaining bolt	16 NOV 2020 2878.2	Crankshaft S/N: 91379 counter bore recess inspected per MSB475C. Installed new dowel, lockplate and bolt P/N: AN8-14A.	X	Anytime engine experiences a prop strike or gear is removed	Larry Flatten WS9R575J <i>FL</i>
2005-12-08	Prevent failure of the magneto impulse coupling assembly	16 NOV 2020 2878.2	Magneto overhauled by Aircraft Accessories of Oklahoma. See 8130-3, W/O 40788 dated 13 OCT 2020. Snap ring impulse coupling installed	X	3378.2 hrs. TTE	Larry Flatten WS9R575J <i>FL</i>
2005-19-11	Prevent failure of the crankshaft	16 NOV 2020 2878.2	N/A per crankshaft S/N: 91379	X		Larry Flatten WS9R575J <i>FL</i>
2006-12-07	To prevent loss of engine power due to cracks in the cylinder assemblies	16 NOV 2020 2878.2	Installed NEW Lycoming cylinders	X		Larry Flatten WS9R575J <i>FL</i>
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	16 NOV 2020 2878.2	Installed NEW Lycoming cylinders	X	N/A	Larry Flatten WS9R575J <i>FL</i>
2011-13-03	To prevent seizure of the turbocharger turbine	16 NOV 2020 2878.2	N/A turbocharger not supplied	X		Larry Flatten WS9R575J <i>FL</i>
2012-03-07	To address a "machined-from-billet" HA-6 carburetor having a loose mixture control sleeve that rotated in the carburetor body	16 NOV 2020 2878.2	N/A carburetor not machined from billet	X		Larry Flatten WS9R575J <i>FL</i>
2012-19-01	To prevent failure of the crankshaft	16 NOV 2020 2878.2	N/A per crankshaft S/N: 91379	X	N/A	Larry Flatten WS9R575J <i>FL</i>
2015-02-07	Propeller Governor Idler Shaft Set Screw	16 NOV 2020 2878.2	N/A per engine model	X	N/A	Larry Flatten WS9R575J <i>FL</i>
2017-16-11	Engine Connecting Rod Assemblies Integrity	16 NOV 2020 2878.2	Installed connecting rod small end bushing P/N: SL13923A.	X		Larry Flatten WS9R575J <i>FL</i>

DATE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED – SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
12/23/20		TACH: 2882.7 SMOH: 0.0 N756FC
		Installed engine S/N- L-21347-40A in aircraft N756FC using new Lord engine
		isolators (J-9613-12). Installed turbo OH'd by Main Turbo Systems Inc.. Installed
		new wastegate from Hartzell Engine Technologies. Installed OH'd governor from
		Texas Aircraft Propeller & Accessories. Installed new oil cooler from Pacific
		Coolers. Added 9qts Phillips Type M 20W-50. Removed and replaced alternator
		belt. All AD's checked and complied with as needed. Aircraft test ran with no
		leaks found. Aircraft returned to service.
		"I certify that this <u>Engine</u>
		has been inspected <u>hazel</u>
		in accordance with inspection and was determined
		to be in airworthy condition"

1121 It3052247

DATE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED – SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
		<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;">  <p>WESTERN Skyways INC. GOLD SEAL AIRCRAFT ENGINES 21 Creative Place Montrose, CO 81401 CRS # WS9R575J</p> </div> <div style="width: 50%;"> <p>Engine Model: O-540-L3C5D Serial Number: L-21347-40A Time: Unknown ETT Work Order: W057615 Date: 19 MAY 2021</p> </div> </div> <p>This engine was disassembled and cleaned.</p> <p>Fluorescent penetrant inspected crankcase match 392, accessory housing, engine mount legs, and oil sump. Magnetic particle inspected crankshaft S/N: 91379, connecting rods, crankshaft gear, governor drive and driven gears, idler shaft and gears, vacuum pump and hydraulic pump shafts, fuel pump plunger, accessory driven gear, mag drive gear, oil pump drive and driven gear, thru bolts, tach shaft, pushrod sockets, oil pump drive shaft and gerator pump gears.</p> <p>Installed repaired camshaft LW13908, reference Aircraft Specialties Services, Inc. 8130-3 Work Order 258254 dated 15 JAN 2020. Installed two repaired counterweights, P/N: LW-19210, reference 8130-3 forms (x2) by Aircraft Specialties Services Inc. under their form tracking number ASI-150009 dated 14 APR 2021 and form tracking number ASI-150012 dated 14 APR 2021. Installed overhauled lifters, P/N: 72877, certified by Aircraft Specialties Service, Inc. under their W/O: 264663 dated 16 FEB 2021. Case half Match number 393 was repaired at squirter hole. Fluorescent penetrant inspected and installed scavenge pump cover and scavenge pump housing.</p> <p>Installed repaired cylinders LW-15605, serial numbers 187387-15, 187387-21, 187387-3, 187388-21, 187387-18 and 187388-3 reference our 8130-3 Work Order W057615 dated 21 APR 2021.</p> <p>Complied with AD2002-12-07, Loss of engine oil, effective date 3 JUL 2002. Installed new 06B23072 gasket. No further action required.</p> <p>Complied with AD2004-05-24, Loss of power, effective date 30 March 2004, by installation of new crankshaft bolt AN8-14A.</p> <p>Complied with AD2004-10-14, Crankshaft gear retaining bolt, effective date 25 June 2004 by inspection of crankshaft S/N: V116206 counter bore recess, inspection of crankshaft gear, and installation of crankshaft gear with new lock plate, new dowel and gear retaining bolt P/N: AN8-14A per MSB 475C. Next due if engine experiences a propeller strike.</p> <p>Complied with AD2017-16-11, connecting rod failure, effective date 15 August 2017 by completion of connecting rod bushing press out verification procedure using tool P/N: ST-531 per MSB 632. Bushings did not move.</p> <p>Engine was reassembled using new rod and main bearings, new rod bolts and nuts, new counterweight pins, plates, and snap-rings, new gaskets, and seals, as necessary. All work was performed in accordance with Lycoming overhaul manual 60294-7-14, table of limits, Western Skyways Inc Repair Specification WSI-100, "use and application of Hylomar sealant" dated 11/10/2010, and current applicable service publications. Engine was run in test cell for leak and operational check.</p> <p>The engine and/or component identified above was repaired 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.</p> <p style="text-align: right;">Signed:  Ryan Dickerson CRS# WS9R575J</p> <p>FORM 201E</p>
8-20-21	Tach time 44:3 2922.1	<div style="text-align: center;">  <p>FLYTEX AVIATION, LLC Seminole TX 79360 432-788-7137</p> </div> <p style="text-align: right;">N756FC</p> <p>Installed Rebuilt Engine O-540-J3C5D S/N L-21347-40A. Installed engine with new engine mounts and hardware. Installed with new oil cooler P/N 8001646 S/N 4720659. Reinstalled alternator after having it tested for proper operation. Reinstalled Vacuum pump pulled from removed engine. Installed overhauled turbo S/N H-PER00201. Inspected exhaust with no defects noted and reinstalled with new hardware and gaskets. Installed new prop governor P/N DC290D1/T4 S/N 784198. Installed overhauled propeller. Installed new bracket Aero filter P/N BA-2510 IAW STC SA71GL. Serviced engine with 9 quarts Phillips 20w-50. Engine Ground runs C/W with no defects noted. Engine Fuel calibrations C/W IAW Cessna TR182 Maint manual and Lycoming maint manual. All work Performed IAW Cessna maint manual. <i>I certify this aircraft to be airworthy and inspected IAW annual inspection and can return to service.</i></p> <p style="text-align: right;"> AJ Froese, A&P IA 4017197</p>

DATE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED – SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
		<div data-bbox="619 215 842 294" data-label="Image"></div> <div data-bbox="453 294 1054 331" data-label="Text">432-788-7137 FLYTEX AVIATION, LLC Seminole TX 79360</div> <div data-bbox="119 331 453 363" data-label="Text">N756FC 12-06-21 Tach 2970.0</div> <div data-bbox="119 381 1406 450" data-label="Text"><p>Drained engine oil and removed and inspected oil filter with no defects noted. Serviced with Aeroshell W100Plus and new oil filter CH48103-2. Ground runs C/W no defects noted. I certify this engine to be airworthy and return to service.</p></div> <div data-bbox="316 450 683 665" data-label="Text"></div> <div data-bbox="834 563 1289 600" data-label="Text">Jonathan Siemens, A&P IA 3288274</div>
		<div data-bbox="635 794 858 873" data-label="Image"></div> <div data-bbox="466 873 1066 908" data-label="Text">432-788-7137 FLYTEX AVIATION, LLC Seminole TX 79360</div> <div data-bbox="132 908 453 939" data-label="Text">N756FC 4-14-22 Tach 3019.6</div> <div data-bbox="132 958 1412 1055" data-label="Text"><p>Drained engine oil and removed and inspected oil filter with no defects noted. Serviced with Aeroshell W100Plus and new oil filter CH48103-2. Ground runs C/W no defects noted. Removed starter and installed new P/N 149-12PM starter. I certify this engine to be airworthy and return to service.</p></div> <div data-bbox="196 1029 547 1252" data-label="Text"></div> <div data-bbox="659 1171 1054 1205" data-label="Text">Jonathan Siemens, A&P IA 3288274</div>
		<div data-bbox="635 1400 858 1479" data-label="Image"></div> <div data-bbox="462 1479 1064 1513" data-label="Text">432-788-7137 FLYTEX AVIATION, LLC Seminole TX 79360</div> <div data-bbox="129 1508 450 1539" data-label="Text">N756FC 7-12-22 Tach 3076.5</div> <div data-bbox="129 1558 1409 1652" data-label="Text"><p>Drained engine oil and removed and inspected oil filter with no defects noted. Serviced with Aeroshell W100Plus and new oil filter CH48103-2. Ground runs C/W no defects noted. I certify this engine to be airworthy and return to service.</p></div> <div data-bbox="320 1626 683 1902" data-label="Text"></div> <div data-bbox="841 1779 1295 1816" data-label="Text">Jonathan Siemens, A&P IA 3288274</div>

