



WESTERN
Skyways
INC.

GOLD SEAL AIRCRAFT ENGINES

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Engine Make: LYCOMING Model: O-360-A1F6D
Serial Number: L-17524-36A W/O No: W057462 Date: 05 MAY 2021
Warranty Number: E21014 Warranty Start Date: MAY 2021
Crankshaft Serial No: 81905 Cylinder Part Number: SAP SL36006W-A20P 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: 2922.3 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:	10-382555-11	756	Pump Vac:	N/A	N/A
Mag Right:	DUAL	DUAL	Wastegate:	N/A	N/A
Fuel Pump:	AF-15472	0GP704	Alt/Gen:	N/A	N/A
Inj/Carb:	10-5034	MS0EMA03	Relief Valve:	N/A	N/A
Man Valve:	N/A	N/A	Prop Governor:	DC290D1-F/T3	210250
Starter:	149NL	H-U120230	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. WS9RS75J

Form 200

Cylinder S/N	Cylinder S/N
# 1: 366W000002979	# 5: N/A
# 2: 366W000002984	# 6: N/A
# 3: 366W000002987	# 7: N/A
# 4: 366W000002988	# 8: N/A

AD NOTES COMPLIANCE RECORD

Engine - Lycoming Engines - O-360-A1F6D S/N: L-17524-38A Western Skyways Inc.
WS9R575J
W/O W057462

Appliance - Carburetors - MA-4 S/N: MS0EMA03 P/N: 10-5034
Model: MA-4-5

Appliance - Cylinder assembly - Superior Air Parts 366W000002979 P/N: SL36006W-A20P
366W000002984
366W000002987
366W000002988

Appliance - Magnetos - TCM (formerly Bendix) D-2000 series 756 PN: 10-382555-11
Model: D2000

AD#	Applicable S.B. # & Subject	Date & Hours @ Comp.	Method of Compliance	One Time	Recurring	Next Comp. @ Hrs/Date	Authorized Signature & Number
69-10-07	Cylinder baffle clamps	05 MAY 2021 2922.3 ETT	Hooks and retainers provided. Not installed.	X			Larry Flatten WS9R575J
63-22-03	Marvel Schebler carburetors	05 MAY 2021 2922.3 ETT	Verified one piece venturi installed.	X			Larry Flatten WS9R575J
64-16-05	Oil seal failure	05 MAY 2021 2922.3 ETT	Installed NEW Tempest Fuel Pump P/N: AF-15472.	X			Larry Flatten WS9R575J
66-20-04	Oil filter adaptor gasket	05 MAY 2021 2922.3 ETT	N/A per engine serial number. Did not install gasket P/N: 74904.	X			Larry Flatten WS9R575J
69-24-03	Marvel Schebler carburetors	05 MAY 2021 2922.3 ETT	N/A per carburetor serial number.	X			Larry Flatten WS9R575J
72-06-05 R2	Marvel Schebler carburetors	05 MAY 2021 2922.3 ETT	New style levers installed.	X			Larry Flatten WS9R575J
73-23-01	Piston pin failures	05 MAY 2021 2922.3 ETT	Installed piston pins P/N: LW-14078.	X			Larry Flatten WS9R575J
75-08-09	Oil pump	05 MAY 2021 2922.3 ETT	Installed impeller kit P/N 05K19423-S.	X			Larry Flatten WS9R575J
78-18-04	Bendix magnetos	05 MAY 2021 2922.3 ETT	Magneto overhauled by Aircraft Accessories of Oklahoma. Reference 8130-3, W/O: 43662 dated 22 APR 2021. Coil retaining devices verified installed by visual inspection.	X			Larry Flatten WS9R575J
79-12-07	Bendix magnetos	05 MAY 2021 2922.3 ETT	Verified green blocks not installed.		X	N/A	Larry Flatten WS9R575J
79-18-06	Revision 1 - Bendix magnetos	05 MAY 2021 2922.3 ETT	Magneto overhauled by Aircraft Accessories of Oklahoma. Reference 8130-3, W/O: 43662 dated 22 APR 2021. Coil retaining devices verified installed by visual inspection.	X			Larry Flatten WS9R575J

AD#	Applicable S.B. # & Subject	Date & Hours @ Comp.	Method of Compliance	One Time	Recurring	Next Comp. @ Hrs/Date	Authorized Signature & Number
80-17-14	Bendix magnetos	05 MAY 2021 2922.3 ETT	Magneto overhauled by Aircraft Accessories of Oklahoma. Reference 8130-3, W/O: 43662 dated 22 APR 2021. Coil retaining devices verified installed by visual inspection.	X			Larry Flatten WS9R575J
82-11-05	Bendix magnetos	05 MAY 2021 2922.3 ETT	Magneto overhauled by Aircraft Accessories of Oklahoma. Reference 8130-3, W/O: 43662 dated 22 APR 2021.		X		Larry Flatten WS9R575J
87-10-06 R1	Rocker arm assemblies	05 MAY 2021 2922.3 ETT	Installed rocker arms P/N: 69444 and 74636.	X			Larry Flatten WS9R575J
89-04-02	Facet carburetors	05 MAY 2021 2922.3 ETT	N/A per carburetor part number.	X			Larry Flatten WS9R575J
90-04-06 R1	Prop governor oil line	05 MAY 2021 2922.3 ETT	Oil line inspected. Has steel ferrules and nuts.	X			Larry Flatten WS9R575J
92-12-06	Piston pin failure	05 MAY 2021 2922.3 ETT	Installed piston pins, P/N: LW-14078.	X			Larry Flatten WS9R575J
93-11-11	AC, Textron, Rajay fuel pumps	05 MAY 2021 2922.3 ETT	Installed NEW Tempest fuel pump P/N: AF-15472.	X			Larry Flatten WS9R575J
95-07-01	Connecting rod bolts	05 MAY 2021 2922.3 ETT	Installed NEW rod bolts P/N: SL75061.	X			Larry Flatten WS9R575J
95-26-02	Low octane detonation	05 MAY 2021 2922.3 ETT	Engine inspected during overhaul.	X			Larry Flatten WS9R575J
96-09-10	Oil Pumps	05 MAY 2021 2922.3 ETT	Installed NEW impeller kit P/N: 05K19423-S.	X			Larry Flatten WS9R575J
97-15-11	Piston pin	05 MAY 2021 2922.3 ETT	Installed piston pin P/N: LW-14078.	X			Larry Flatten WS9R575J
98-02-08	Crankshaft corrosion	05 MAY 2021 2922.3 ETT	N/A per engine model.		X	N/A	Larry Flatten WS9R575J
98-17-11	Crankshafts	05 MAY 2021 2922.3 ETT	Crankshaft, S/N: 81905 visual, dimensional and magnetic particle inspected.	X			Larry Flatten WS9R575J
2002-12-07	Prevent complete loss of engine oil	05 MAY 2021 2922.3 ETT	Installed new gasket, P/N: 06B23072 per option 1 of MSB543. Stamped 543 on plate. Terminating action completed.	X		Terminating action completed.	Larry Flatten WS9R575J
2004-10-14	CORRECTION - Prevent loosening or failure of the crankshaft gear retaining bolt	05 MAY 2021 2922.3 ETT	Crankshaft, S/N: 81905 counter bore recess inspected per MSB 475. Installed NEW dowel, modified gear and lockplate with new bolt P/N: AN8-14.	X		Anytime engine experiences a prop strike or gear train work is required.	Larry Flatten WS9R575J
2005-12-08	Prevent failure of the magneto impulse coupling assembly	05 MAY 2021 2922.3 ETT	Magneto overhauled by Aircraft Accessories of Oklahoma. Reference 8130-3, W/O: 43662 dated 22 APR 2021. Snap ring impulse installed.	X			Larry Flatten WS9R575J
2005-19-11	Prevent failure of the crankshaft	05 MAY 2021 2922.3 ETT	N/A per crankshaft S/N: 81905.	X			Larry Flatten WS9R575J

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

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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
2006-06-16	To prevent failure of the crankshaft	05 MAY 2021 2922.3 ETT	N/A per crankshaft S/N: 81905.	X			Larry Flatten WS9R575J <i>LF</i>
2006-10-21	CORRECTION - To prevent fatigue failure of the connecting rod and a possible uncommanded shutdown of the engine.	05 MAY 2021 2922.3 ETT	Installed connecting rods P/N: LW-11750..	X			Larry Flatten WS9R575J <i>LF</i>
2006-12-07	To prevent loss of engine power due to cracks in the cylinder assemblies	05 MAY 2021 2922.3 ETT	Installed NEW Superior cylinders.	X			Larry Flatten WS9R575J <i>LF</i>
2007-04-19	To prevent cylinder separation that can lead to engine failure	05 MAY 2021 2922.3 ETT	N/A per cylinder part number.		X	N/A	Larry Flatten WS9R575J <i>LF</i>
2007-04-19R1	To prevent cylinder separation that can lead to engine failure	05 MAY 2021 2922.3 ETT	N/A per cylinder part number.		X	N/A	Larry Flatten WS9R575J <i>LF</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	05 MAY 2021 2922.3 ETT	Installed NEW Superior cylinders.	X		N/A	Larry Flatten WS9R575J <i>LF</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	05 MAY 2021 2922.3 ETT	N/A HA-6 carburetor not used on this engine.	X			Larry Flatten WS9R575J <i>LF</i>
2012-19-01	To prevent failure of the crankshaft	05 MAY 2021 2922.3 ETT	N/A per crankshaft S/N: 81905.		X	N/A	Larry Flatten WS9R575J <i>LF</i>
2017-16-11	Engine Connecting Rod Assemblies Integrity	05 MAY 2021 2922.3 ETT	Installed connecting rod small end bushings P/N: SL13923A.	X			Larry Flatten WS9R575J <i>LF</i>

REG #	N34606	LOGBOOK INSERT	DATE	7/07/2021
MODEL	Cessna 177B			
SERIAL #	17701898		TACH	2924.5
Eng. Model	O-360-A1F6D		A/C TT	2924.5
Eng. S/N	L-17524-36A			

Eng. TT: 2924.5 TSMOH: 2.2

1. Reinstalled engine after overhaul by Skyways Inc. CRS # WS9R575J Ref. W.O. # WO57462 on 5/5/2021 IAW Cessna 177 Model Series Service Manual Section 11.
2. Installed new prop governor P/N DC290D1-F/T3 S/N 21050 IAW Cessna 177 Service manual section 13.
3. Reinstalled carburetor P/N 10-5034 S/N MS0EMA03 and carb heat box using new gaskets.
4. Installed an overhauled alternator P/N DOFF10300J S/N H-R062400 from Falcon Aero CRS# AZR629B Ref. W.O. 4746.
5. Reinstalled engine baffles.
6. Installed overhauled propeller. See propeller logbook for details.
7. Serviced engine with 8 qts of Phillips 20w-50 M mineral oil.
8. Completed post installation checks, adjustments and break in flight. (2.2 hrs)

The Aircraft and/or Component(s) Identified above in the scope of this work order were repaired and/or inspected in accordance with current applicable Federal Aviation Regulations.

DATE 7/07/2021

SIGNED Thomas W. Thunstrom A/P 476860448IA

Thomas W. Thunstrom A/P 476860448IA

REG #	N34606	LOGBOOK INSERT	DATE	7/07/2021
MODEL	Cessna 177B			
SERIAL #	17701898		TACH	2924.5
Prop Model	B2D32C208/82PA-6		A/C TT	2924.5
Prop S/N	731160			

Prop TT: 2924.5 TSOH: 2.2

1. Reinstalled propeller after overhaul by Maxwell Aircraft Service Inc. CRS# UF2R211L Ref. W.O. 125260. Completed operational and leak checks. Both found good at this time/date. Work performed IAW Cessna 177 Model Series Service Manual Section 13.

The Aircraft and/or Component(s) identified above in the scope of this work order were repaired and/or inspected in accordance with current applicable Federal Aviation Regulations.

DATE 7/07/2021 SIGNED Thomas W. Thunstrom A/P 476860448IA
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