



WESTERN
Skyways
INC.

Engines Are Our ONLY Business

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

ENGINE MAINTENANCE RECORDS

Log No. _____

Aircraft Registration No. _____

Engine Manufacturer _____

Model _____

Serial No. _____

Date installed on aircraft _____

Time Between Overhauls (TBO) _____ Hours

If used on multi-engine aircraft:

☐ RIGHT

☐ LEFT

☐ FRONT

☐ REAR



WESTERN
Skyways
INC.



ENGINE WARRANTY TRANSFER REQUEST

Current Owners Name: _____

Phone: _____

Address: _____

New Owner's Name: _____

Phone: _____

Address: _____

Engine Model: _____

Engine Serial: _____

Numbers of Hours Since Installed: _____

Date of Transfer: _____

Date Installed: _____

Aircraft Model/year: _____

Signature of
Current Owner: _____

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



WESTERN
Skyways
INC.

**21 Creative Place
Montrose, CO 81401**

PLACE
POSTAGE
HERE



WESTERN
Skyways
INC.

GOLD SEAL AIRCRAFT ENGINES

21 Creative Place
Montreal, Q2 0A0
www.williamsharvey.com

(0000) 0000-0000
 (0000) 0000-0000
 PAGE 0000 0000-0000

Engine Make: <u>LYCOMING</u>	Model: <u>IO-360-A1B6</u>
Serial Number: <u>L-26587-51AC</u>	W/O No: <u>W058937</u> Date: <u>15 SEP 2022</u>
Warranty Number: <u>122216</u>	Warranty Start Date: <u>SEP 2022</u>
Crankshaft Serial No: <u>V27830</u>	Cylinder Part Number: <u>LW-12993 OH</u>

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: 2203.79 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.
L/H Mag.	BL-349365-9	F19DA053R	Vac Pump.	N/A	N/A
R/H Mag.	BL-349305-1	F19CA246R	Wastegate	N/A	N/A
Fuel Pump	AF-15473	0XDC23	Alt/Gen	N/A	N/A
Inj/Carb	2524054-11	720YMF18	Pop Off	N/A	N/A
Main Valve	2524232-2	A0Y LX19	Controller	N/A	N/A
Starter	149NL	H-W072218	VAPC	N/A	N/A
Turbo	N/A	N/A	Fuel Limiter	N/A	N/A
Prop Gov.	N/A	N/A	Tach Gen	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 
Repair Station No. WS98575

Cylinder S/N	Cylinder S/N
#1: F3276F	#5: N/A
#2: G8527G	#6: N/A
#3: F3282H	#7: N/A
#4: H4089H	#8: N/A

DATE

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2022-18

AD NOTES COMPLIANCE RECORD

Engine: Lycoming Engine - IO-360-A1B6

S/N: 177RG0803

Western Skyways Inc.

WS9R575J

Applicable: Magneto - YOM (formerly Rotax) R-1200 series S/N: F132AD08

S/N: F132AD08

P/N: SL-34390-1

Model: 54LJ-1227 & 54LJ-1208

Applicable: Fuel Injection Servo - Precision Airborne LLC S/N: F007M018

S/N: F007M018

P/N: 2524054-11

Model: TMA-5A(1)

AD#	Applicable S.B. # & Subject	Date & Hours @ Comp.	Method of Compliance	Next Comp. @ Hrs/Date	Authorized Signature & Number
60-45-44	Oil filter assembly gasket	15 SEP 2022 2203.79 ETT	Oil not installed gasket P/N: 74804	X	Larry Flatten WS9R575J
74-28-22-84	Crankshaft main bearing	15 SEP 2022 2203.79 ETT	N/A per engine serial number	X N/A	Larry Flatten WS9R575J
74-11-40	Hydraulic Vaguet (plunger)	15 SEP 2022 2203.79 ETT	N/A per engine serial number. Installed tappet plunger assemblies P/N: 78290	X	Larry Flatten WS9R575J
74-25-01	Piston pin failure	15 SEP 2022 2203.79 ETT	Installed piston pin P/N: SL-13444-1	X	Larry Flatten WS9R575J
74-25-49	Bomb magneto	15 SEP 2022 2203.79 ETT	N/A per magneto part number	X	Larry Flatten WS9R575J
74-29-06	Oil pump	15 SEP 2022 2203.79 ETT	Installed impeller kit P/N SL18108A-S.	X	Larry Flatten WS9R575J
74-29-11	Fuel flow divider gasket	15 SEP 2022 2203.79 ETT	N/A per flow divider P/N: 2524232-2	X	Larry Flatten WS9R575J
74-25-13	Center body balance seal assembly	15 SEP 2022 2203.79 ETT	N/A per fuel injection servo part number	X	Larry Flatten WS9R575J
74-24-40	Fuel diaphragm	15 SEP 2022 2203.79 ETT	N/A per fuel injection servo part number	X	Larry Flatten WS9R575J
63-13-41	Bomb magneto	15 SEP 2022 2203.79 ETT	Verified green blocks not installed	X N/A	Larry Flatten WS9R575J
63-29-21	Bomb magneto	15 SEP 2022 2203.79 ETT	N/A per magneto serial number	X	Larry Flatten WS9R575J
60-24-26-01	Prop governor oil line	15 SEP 2022 2203.79 ETT	Line inspected per MSB448. Line has steel berrules and nuts	X	Larry Flatten WS9R575J
62-13-48	Piston pin failure	15 SEP 2022 2203.79 ETT	Installed piston pin P/N: SL-13444-1	X	Larry Flatten WS9R575J
65-11-11	A/C. Tension. Hoses fuel ports	15 SEP 2022 2203.79 ETT	Installed new impeller fuel pump P/N: AF15473	X	Larry Flatten WS9R575J
66-21-23-02	Two-cycle/magneto	15 SEP 2022 2203.79 ETT	N/A per magneto serial number	X	Larry Flatten WS9R575J
64-48-45	Two-cycle/magneto	15 SEP 2022 2203.79 ETT	N/A per magneto serial number	X	Larry Flatten WS9R575J

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2022-18

AD#	Applicable S.B. # & Subject	Date & Hours @ Comp.	Method of Compliance	Next Comp. @ Hrs/Date	Authorized Signature & Number
60-29-02	Use extreme deformation	15 SEP 2022 2203.79 ETT	Engine inspected during overhaul	X	Larry Flatten WS9R575J
66-09-15	Oil Pump	15 SEP 2022 2203.79 ETT	Installed impeller kit P/N: SL18108A-S.	X	Larry Flatten WS9R575J
66-23-03	High pressure fuel pump	15 SEP 2022 2203.79 ETT	Installed new Tempest fuel pump P/N: AF-15473	X	Larry Flatten WS9R575J
61-15-11	Piston pin	15 SEP 2022 2203.79 ETT	Installed piston pin P/N: SL-13444-1	X	Larry Flatten WS9R575J
66-43-08	Crankshaft corrosion	15 SEP 2022 2203.79 ETT	N/A per engine model	X N/A	Larry Flatten WS9R575J
66-47-11	Crankshaft	15 SEP 2022 2203.79 ETT	Crankshaft S/N: V27830 visual, dimensional and magnetic particle inspected	X	Larry Flatten WS9R575J
2004-16-14	CORRECTION - Prevent loosening or failure of the crankshaft gear meshing bolt	15 SEP 2022 2203.79 ETT	Inspected crankshaft S/N: V27830 per MSB475C. Installed modified gear with NEW bolt, P/N: STD-2248 and NEW lockplate.	X	Larry Flatten WS9R575J
2005-12-48	Prevent failure of the magneto impeller coupling assembly	15 SEP 2022 2203.79 ETT	N/A per engine model	X N/A	Larry Flatten WS9R575J
2006-19-11	Prevent failure of the crankshaft	15 SEP 2022 2203.79 ETT	N/A per crankshaft S/N: V27830	X	Larry Flatten WS9R575J
2004-46-18	To prevent failure of the crankshaft	15 SEP 2022 2203.79 ETT	N/A per crankshaft S/N: V27830	X	Larry Flatten WS9R575J
2005-43-43	To prevent a lean running engine	15 SEP 2022 2203.79 ETT	Fuel injection servo overhauled by Precision Airborne LLC. Reference R130-3, W/O: 10YMF dated 08 AUG 2022. Verified "G" stamped on plug. Terminating action completed.	X Terminating action complete	Larry Flatten WS9R575J
2013-45-04	To prevent an in-flight shutdown due to a failed fuel servo diaphragm	15 SEP 2022 2203.79 ETT	Fuel injection servo overhauled by Precision Airborne LLC. Reference R130-3, W/O: 10YMF dated 08 AUG 2022.	X N/A	Larry Flatten WS9R575J
2013-45-47	To address a "machined-from-billet" HA-6 carburetor having a loose mixture control sleeve that rotated in the carburetor body	15 SEP 2022 2203.79 ETT	N/A HA-6 carburetor not used on this engine	X	Larry Flatten WS9R575J
2013-19-41	To prevent failure of the crankshaft	15 SEP 2022 2203.79 ETT	N/A per crankshaft S/N: V27830	X N/A	Larry Flatten WS9R575J
2015-19-47	External Fuel Injector Lines	15 SEP 2022 2203.79 ETT	Lines and clamps inspected and installed per MSB342G.	X 2313.79 or whenever a line or clamp is loosened or removed	Larry Flatten WS9R575J
2017-14-11	Engine Connecting Rod Assemblies Integrity	15 SEP 2022 2203.79 ETT	Installed rod and bushing P/N: SL13023A	X	Larry Flatten WS9R575J
2022-14-43	S-1200 Series Magneto Rotor Bearings Improper Lubricated	15 SEP 2022 2203.79 ETT	N/A by magneto serial numbers	X	Larry Flatten WS9R575J

DATE

TACH OR
RECORDING
METER
TIMEDESCRIPTION OF WORK PERFORMED -
SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORKGOLD SEAL AIRCRAFT ENGINES
21 Creative Place Montrose, CO 81401 CRS # WS9R575J

Engine Model: IO-360-A3B6 converted IO-360-A1B6

Serial Number: L-26587-51AC

Time: 2203.79 TTE

Work Order: W058937

Date: 15 SEP 2022

Converted engine from an IO-360-A3B6 to an IO-360-A1B6 utilizing Lycoming Parts catalog PC-406-1 dated 01 DEC 1996. Added "C" suffix to the engine serial number in accordance with Lycoming 51 1304J.

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

N7504V

(removed) Tach: 3187.7

JPI Tach: 0.0

ETT: 2203.79

TSMOH: 0.0



Engine log

11/01/2022

Lyc IO-360-A1B6

S/N: L-26587-51AC

Cascade Aircraft Management Inc.

Installed this engine on N7504V. A Cessna 177RG serial# 177RG0803

Serviced engine with 8Q AS W100 mineral oil per Lycoming 51 No. 10144. Ground runs and test

flight: done IAW Lycoming

Joseph Tway

3587026 A&P I/A

TORNADO ALLEY TURBO INC.

300 AIRPORT RD

ADA, OK 74820

N7504V CESSNA 177RG SN: 177RG0803

ENGINE LOG BOOK ENTRY

22 JANUARY 2023

JPI TACH: 14.2

LYCOMING IO-360-A1B6 SN: L-26587-51A C JPI HOBBS: 16.4 ACTT: 3201.1

INSTALLED "CARDINAL CRUISER" TURBO NORMALIZER SYSTEM. INSTALLATION IS COVERED AND APPROVED UNDER GENERAL AVIATION MODIFICATIONS, INC. STC SE4082NM AND STC SA4081NM. THE INSTALLATION WAS COMPLETED USING TORNADO ALLEY TURBO INSTALLATION INSTRUCTIONS 77-6760001, REV H 14 SEP 2015, MASTER DRAWING LIST D-177RG-100 REV J, 19 NOV 2015, AND CESSNA SERVICE MANUALS. REFER TO AIRPLANE FLIGHT MANUAL SUPPLEMENT AFMS C-177RG SYS III AND 77-6460004 FOR OPERATION AND CONTINUED AIRWORTHINESS.

PERFORMED COMPRESSION TEST CYLINDER 1)77 2)74 3)77 4)75

REMOVED MCCAULEY B2D34C2P7A S/N 793798

INSTALLED HARTZELL HC-C2YR-1N/NG8301-5 S/N NS6812B IAW STC SA09871SC

INSTALLED NEW SCAVENGE PUMP CF101833-0032 S/N SP0507026

INSTALLED O/H FUEL PUMP 04-655001 MO 13951

INSTALLED NEW OIL COOLER 8001956 S/N 170

INSTALLED O/H PRV VALVE 470944-0017 S/N KHN00161

INSTALLED O/H WASTEGATE 470842-0004 S/N LIN00381

INSTALLED O/H MP CONTROLLER 470688-0005 S/N MHN00012

INSTALLED O/H FUEL SERVO 77-6700002 S/N 59156

INSTALLED O/H TURBOCHARGER 466304-0003 S/N KKL01397

INSTALLED AIRWOLF OIL FILTER KIT AFC-K007-F IAW STC SA00024NY

INSTALLED NEW EXHAUST MANIFOLDS, WASTEGATE MANIFOLD, CABIN HEATER, TAIL PIPE, AND INTERCOOLER.

INSTALLED ALL NEW EXHAUST PORT BASE GASKETS, FLANGE NUTS, TURBOCHARGER GASKET, AND V-BAND CLAMP.

INSTALLED NEW FLUID CARRYING HOSES. REPLACED FRESH AIR AND HEATER SCAT TUBING.

REMOVED LYC FUEL NOZZLES AND INSTALLED TURBOGAMJECTORS KIT # GT15B-177RG S/N 31182 STC SE09445SC

SERVICED ENGINE OIL WITH AEROSHELL 100 AND NEW OIL FILTER AFC-600


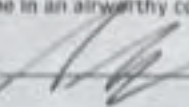
UPDATED W&B AND AFMS

RUN-UP, LEAK CHECK, OP'S, & TEST FLIGHT OK. APPROVED FOR RETURN TO SERVICE.

AIRCRAFT WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH CURRENT MAINTENANCE RULES OF THE FEDERAL AVIATION REGULATIONS. ADVISORY

CIRCULARS, AND APPROPRIATE MANUFACTURER'S MANUALS.

KARL SOBOLIK A&P 003675139 IA

DATE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED - SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
		<p>N7504V</p> <p>Tach: 25.1 TSMOH: 25.1 ETT: 2228.89</p> <p></p> <p>Engine log</p> <p>Cascade Aircraft Management Inc.</p> <p>08/02/2023</p> <p>Lycoming IO-360-A186 s/n: L-26587-51AC</p> <p>Complied with annual inspection in accordance with FAR 43 appendix D. Aids researched through 08/02/2023 using current ATP subscription Compressions: #1 78/80, #2 77/80, #3 78/80, #4 78/80. CW AD 2015-19-07 (11/03/2015) fuel injection lines and clamps. Next due 135.1 Tach or whenever a line or clamp is tampered. Removed fuel servo P/N 77-6700002 serial# 9156 and reinstalled after repair by Avstar Fuel Systems Inc on WO# 59241001. I certify this Engine has been inspected in accordance with an annual inspection and was determined to be in an airworthy condition.</p> <p>Joseph Tway  3682026 A&P I/A</p>

[illegible]

DATE

RECORDING
METER
TIME

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

N7504V

Tach: 25.1
TSMOH: 25.1
ETT: 2228.89



Engine log

Cascade Aircraft Management Inc.

08/02/2023

Lycorning
IO-360-A186
s/n: L-28587-51AC

Complied with annual inspection in accordance with FAR 43 appendix D. Ads researched through 08/02/2023 using current ATP subscription Compressions: #1 78/80, #2 77/80, #3 78/80, #4 78/80. CW AD 2015-19-07 (11/03/2015) fuel injection lines and clamps. Next due 135.1 Tach or whenever a line or clamp is tampered. Removed fuel servo P/N 77-6700002 serial# 9556 and reinstalled after repair by Avistar Fuel Systems Inc on WO# 59241001. I certify this Engine has been inspected in accordance with an annual inspection and was determined to be in an airworthy condition.

Joseph Tway

3682026 A&P I/A

DATE

TACH OR
RECORDING
METER
TIME

N7504V

Tach: 45.5
TSMOH: 45.5
ETT: 2249.29



Engine log

Cascade Aircraft Management Inc.

12/04/2024

Lycorning
IO-360-A186
s/n: L-28587-51AC

Complied with annual inspection in accordance with FAR 43 appendix D. Ads researched through 12/04/2024 using current ATP subscription Compressions: #1 73/80, #2 76/80, #3 73/80, #4 74/80. Cleaned, gapped and rotated plugs. Drained engine oil. Inspected filter, no contaminants found. Serviced engine with 7 quarts of Phillips XC 20W-50 oil, and new AA48108 Filter. CW AD 2015-19-07 (11/03/2015) fuel injection lines and clamps. Next due 155.5 Tach or whenever a line or clamp is tampered. CW AD 2023-09-09 by TAT ICW, through visual inspection, next due inspection @145 Shrs tach, due replacement @ 500hrs tach. I certify this Engine has been inspected in accordance with an annual/100hr inspection and was determined to be in an airworthy condition.

Joseph Tway

3682026 A&P I/A