

ENGINE MAINTENANCE RECORDS



WESTERN
Skyways
INC.

Engines Are Our **ONLY** Business

21 CREATIVE PL. • MONTROSE, CO 81401
(970) 249-0232 • 800-575-9929 • FAX (970) 249-4155

ENGINE MAINTENANCE RECORDS

Log No. _____

Aircraft Registration No. N74SK

Engine Manufacturer CONTINENTAL

Model IO-520-BACBB

Serial No. 280997-R

Date installed on aircraft 01-25-2018

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: _____

Date Installed: _____

Engine Model: _____

Aircraft Model/year: _____

Engine Serial: _____

Numbers of Hours Since Installed: _____

Date of Transfer: _____

Signature of
Current Owner: _____


WESTERN
Skyways
 INC.

GOLD SEAL AIRCRAFT ENGINES

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

 (800) 575-9829
 (970) 248-0292
 FAX (970) 248-4155

Engine Make: CONTINENTAL Model: IO-520-BACBB
 Serial Number: 280997-R W/O No: W053219 Date: 10NOV 2017
 Warranty Number: K17330 Warranty Start Date: 11/17
 Crankshaft Serial No: 861084 Cylinder Part Number: SAP SA52006-A20P NEW

This engine and accessories listed below were overhauled to "Factory New Tolerances" per Overhaul Manual No: X30039 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: 4741.33 Hrs.

This engine meets requirements of CONTINENTAL M-0 for 1700.0 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-349220-5	F16HA240R	Vac Pump:	N/A	N/A
R/H Mag:	BL-349260-6	F16KA010R	Wastegate:	N/A	N/A
Fuel Pump:	646212-16A1	J219411BR	Alt/Gen:	N/A	N/A
Inj/Carb:	629904-2	J249443AR	Press Rel Val.:	N/A	N/A
Man Valve:	631427-2A21	J219411CR	Pop Off.:	N/A	N/A
Starter:	C12ST5 NEW	H-R081334	Controller :	N/A	N/A
Turbo:	N/A	N/A	Prop Gov:	N/A	N/A
			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: 526F1729992	#5: 526F1729996
#2: 526F1729993	#6: 526F1729997
#3: 526F1729994	#7: N/A
#4: 526F1729995	#8: N/A

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

Page 1 of 2

AD NOTES COMPLIANCE RECORD

Engine - Continental Motors - IO-520-BACBB

S/N 280997-R

Western Skyways, Inc
CRS# W59R575J
W/O# W053219

Appliance - Magnetos - TCM (formerly Bendix) S-1200 series

S/N F16HA240R
S/N F16KA010RP/N BL-349220-5
P/N BL-349260-6
Model # 50RN-1201 & 1205

Appliance - Cylinder assembly - Superior Air Parts

S/N 526F1729902
S/N 526F1729903
S/N 526F1729904
S/N 526F1729905
S/N 526F1729906
S/N 526F1729907

P/N, SA52006-A20P

AD#	Applicable S.B. # & Subject	Date & Hours @ Comp.	Method of Compliance	One Time	Recurring	Next Comp. @ Hrs/Date	Authorized Signature & Number
70-14-07 R2	Fuel injection pump needle	10 NOV 2017 4741 33	Verified new style needle installed	X			Larry Flatten CRS# W59R575J
72-24-03	Oil filter adaptor	10 NOV 2017 4741 33	New style oil filter adapter installed	X			Larry Flatten CRS# W59R575J
74-26-09	Bendix magnetos	10 NOV 2017 4741 33	N/A per magneto serial number	X			Larry Flatten CRS# W59R575J
79-05-09	Oil pressure relief valve	10 NOV 2017 4741 33	"Current Design" screw and plunger installed	X			Larry Flatten CRS# W59R575J
80-01-04	Cylinder holddown flanges	10 NOV 2017 4741 33	Installed NEW Superior cylinders	X			Larry Flatten CRS# W59R575J
81-24-06	Fuel pump	10 NOV 2017 4741 33	N/A per fuel pump S/N J219411BR	X			Larry Flatten CRS# W59R575J
82-13-01	Bendix magnetos	10 NOV 2017 4741 33	Verified green blocks not installed	X			Larry Flatten CRS# W59R575J
82-20-01	Bendix magnetos	10 NOV 2017 4741 33	N/A per magneto serial number	X			Larry Flatten CRS# W59R575J
86-13-04 R3	Cylinder assemblies	10 NOV 2017 4741 33	Installed NEW Superior cylinders	X			Larry Flatten CRS# W59R575J
87-14-02	Starter adaptor shaftgear	10 NOV 2017 4741 33	N/A per engine serial number	X			Larry Flatten CRS# W59R575J
88-03-06	Oil filter	10 NOV 2017 4741 33	Installed oil filter P/N CH48109-1	X			Larry Flatten CRS# W59R575J
88-17-03	Starter adapter shaftgear	10 NOV 2017 4741 33	N/A per starter adapter P/N 624083A12	X			Larry Flatten CRS# W59R575J
91-19-03	Champion oil filter	10 NOV 2017 4741 33	Installed oil filter P/N CH48109-1	X			Larry Flatten CRS# W59R575J
93-08-17	Incorrect oil pick-up tube	10 NOV 2017 4741 33	N/A per engine serial number	X			Larry Flatten CRS# W59R575J

Page 2 of 2

AD#	Applicable S.B. # & Subject	Date & Hours @ Comp.	Method of Compliance	One Time	Recurring	Next Comp. @ Hrs/Date	Authorized Signature & Number
93-10-02	Cylinder valve retainer	10 NOV 2017 4741 33	Installed NEW Superior cylinders	X			Larry Flatten CRS# W59R575J
93-16-15	Fuel pumps	10 NOV 2017 4741 33	Installed fuel pump drive coupling P/N 653359	X			Larry Flatten CRS# W59R575J
94-01-03 R2	Teledyne/Bendix magnetos	10 NOV 2017 4741 33	N/A per magneto serial number	X			Larry Flatten CRS# W59R575J
94-06-09	Teledyne/Bendix magnetos	10 NOV 2017 4741 33	N/A per magneto serial number	X			Larry Flatten CRS# W59R575J
95-21-15	Engine teardown and analytical inspect	10 NOV 2017 4741 33	Engine inspected at overhaul	X			Larry Flatten CRS# W59R575J
97-26-17	CORRECTION - Crankshaft fatigue cracks	10 NOV 2017 4741 33	VAR crankshaft S/N 861084 ultrasonic inspected	X	At next crankshaft removal		Larry Flatten CRS# W59R575J
98-17-11	Crankshafts	10 NOV 2017 4741 33	Crankshaft, S/N 861084 visual, dimensional and magnetic particle tested	X			Larry Flatten CRS# W59R575J
99-19-01	Crankshaft failure	10 NOV 2017 4741 33	N/A per crankshaft S/N 861084	X			Larry Flatten CRS# W59R575J
2000-23-21	Fracture of the crankshaft connecting rod journal	10 NOV 2017 4741 33	N/A per crankshaft S/N 861084	X			Larry Flatten CRS# W59R575J
2004-08-10	Prevent loss of engine power	10 NOV 2017 4741 33	Installed NEW Superior cylinders	X			Larry Flatten CRS# W59R575J
2007-04-19	To prevent cylinder separation that can lead to engine failure	10 NOV 2017 4741 33	N/A per cylinder part number	X			Larry Flatten CRS# W59R575J
2007-04-19R1	To prevent cylinder separation that can lead to engine failure	10 NOV 2017 4741 33	N/A per cylinder part number	X			Larry Flatten CRS# W59R575J
2009-19-07	Correction - To prevent loss of engine power due to cracks in the cylinder head, possible engine failure, and fire in the engine compartment	10 NOV 2017 4741 33	Installed NEW Superior cylinders	X			Larry Flatten CRS# W59R575J
2010-11-04	To prevent excessive hydraulic lifter wear	10 NOV 2017 4741 33	Installed overhauled lifters P/N 653888 and 653877	X			Larry Flatten CRS# W59R575J
2012-03-06	To prevent an in-flight shutdown due to a failed fuel servo	10 NOV 2017 4741 33	N/A, fuel injection servo not used on this engine	X			Larry Flatten CRS# W59R575J
2014-06-29	Superior Air Parts Investment Cast Cylinder Assemblies	10 NOV 2017 4741 33	N/A per cylinder part number	X			Larry Flatten CRS# W59R575J
2016-16-12	ECL Class 71 or Class 76 Cylinder Assembly Failures	10 NOV 2017 4741 33	Installed NEW Superior cylinders	X			Larry Flatten CRS# W59R575J

DATE

TACH OR
RECORDING
METER
TIMEDESCRIPTION OF WORK PERFORMED –
SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
WESTERN
Skyways
 INC.

GOLD SEAL AIRCRAFT ENGINES

21 Creative Place Montrose, CO 81401 CRS # WS9R575J

Engine Model: IO-520-BACBB

Serial Number: 280997-R

Time: 4741.33 TTE

Work Order: W053219

Date: 10 NOV 2017

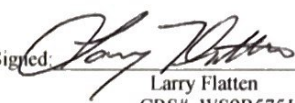
This engine was converted from an IO-520-BA to an IO-520-BB at overhaul utilizing Continental Motors electronic online parts catalog

The Data Plate was stamped with a "cBB" after the model number in accordance with Continental SB M75-6RI.

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 X30039 and applicable Service Information.

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

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


 GREELEY, CO
 REPAIR STATION BX4R092M
 (970) 353-9200


01-25-2018 Tach 1858.30 AFTT 5737.80 N74SK sn D-8148

Engine: Installed overhauled owner supplied IO-520-BA CBB sn 280997-R from Western Skyways, Inc. CRS # WS9R575J WO# 53219. Replaced engine mounts pn (4) J-10520-1 and bolts pn (4) AN7-36A and nuts. Torqued as required. Repainted baffles and resealed as required. Reinstalled Woodward governor Model # C210452C-T sn 654779 after overhaul from Redline Aviation CRS # R62R296Y WO# 3114 and new gasket. Installed overhauled alternator Model # ALX9524 sn H-R102272 from Hartzell Engine Technologies CRS # 1HZR769B WO# M169680 new drive coupling provided and installed on alternator. Installed overhauled vacuum pump Model # AA216CW sn 0D4V16 from Aero Accessories, Inc. CRS # YV4R688M WO# 10D4V-0000. Replaced fuel, oil, and pneumatic engine hoses from Aviall WO# 1003606757 and 1003619522. Reinstalled existing Tanis heater. Installed new exhaust collectors LH pn A35-95005-37M and RH pn A35-950005-39M. Installed new mufflers LH pn A701-20 and RH pn 701-19. Installed owner supplied previously installed electronic ignition/Electro-Air and spark plugs. Install new air filter element pn BA-7112. Serviced engine with Aeroshell 80 mineral oil. Pre-oiled, test run, and checked for leaks. All systems, temperatures, pressures, and RPM's normal

DATE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED - SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
		This aircraft was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. Except as stated above, no other work, inspection, corrective action or determination of airworthiness has been completed at this time, limited to work performed. Pertinent details on file at Beegles Aircraft Service, Inc., Greeley, CO. Work Order # 12,531 CRS# BX4R092M Signed <u>Steve V. Koontz</u>
03-08-2015	1865.4 ENG. TOTAL TIME	OIL NOT CHANGED AT THIS TIME - DIFFERENTIAL COMPRESSION CHECK OF CYLINDERS SHOWED #1 76/80 #2 80/80 #3 79/80 #4 79/80 #5 75/80 #6 79/80 - REINSTALLED SPARK PLUGS - ENGINE GROUND RUN UP - S.M.O.H. OPS CHECK AND LEAK CHECK SATISFACTORY. I CERTIFY THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A 100HR/ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION <u>Steve V. Koontz AP2144253 1A.</u>
6/24	1872.8	CHANGED OIL + FILTER, w/ AEROSHELL 100 STEVE KOONTZ <u>Steve Koontz</u> #3214015
10/20	1882.6	CHANGED OIL - NO FILTER - w/ AEROSHELL 80 STEVE KOONTZ <u>Steve Koontz</u> #3214015
	1897	CHANGED OIL + FILTER w/ AEROSHELL 15-50 STEVE KOONTZ <u>Steve Koontz</u> #3214015
4-15-19	1913 ENG. TOTAL TIME 1993 S.M.O.H.	OIL NOT CHANGED - DIFFERENTIAL COMPRESSION CHECK OF CYLINDERS SHOWED #1 75/80 #2 74/80 #3 78/80 #4 75/80 #5 77/80 #6 70/80 - POST INSPECTION RUN-UP WAS SATISFACTORY - I CERTIFY THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A 100HR/ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION - <u>Steve V. Koontz AP2144253 1A.</u>

DATE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED - SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
03-03-2020	1939 TOTAL TIME 2019 SMOH 81	DRAINED OIL - REMOVED FILTER. INSTALLED A NEW OIL FILTER PER THE INSTRUCTIONS ON THE FILTER - DIFFERENTIAL COMPRESSION CHECK SHOWED # 1 75/80 # 2 74/80 # 3 71/80 # 4 75/80 # 5 77/80 # 6 70/80 - REMOVED ALL SPARK PLUGS - CLEANED, GAPPED, TESTED AND REINSTALLED - ENGINE GROUND RUN - OPS CHECK, LEAK CHECK SATISFACTORY - SEE SEPERATE A.D. LISTING FOR COMPLIANCE - I CERTIFY THIS ENGINE AND PROP HAVE BEEN INSPECTED IN ACCORDANCE WITH A 100HR/ (Annual) ^{1Y} ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION <i>Ben E Vetter AP214253 IA</i>
2021 3-16-	1957.1 ENGR TOTAL 2037 SMOH 99	OIL NOT CHANGE - DIFFERENTIAL COMPRESSION CHECK OF CYLINDERS SHOWED ALL WERE SATISFACTORY. TESTED SPARK PLUGS - ALL SATISFACTORY SEE SEPERATE A.D. LISTING FOR COMPLIANCE I CERTIFY THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A 100HR/ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION <i>Ben E Vetter AP214253 IA</i>
2021 8-5	1996	CHANGED OIL - NO FILTER 1385 MOH, TT 5876 TACK 1996 <i>Ben E Vetter</i> #3214015
9-7-21		REMOVED THE LEFT MAG MD. # ^{BENDIX (TCM)} 56RN 1281 AND REPLACED IT WITH AN OVERHAUL MODEL TCM 56RN 1225, SER. NO. F18AA130R FROM AIRCRAFT ACCESSORIES - SEE MAINTENANCE RELEASE - INSTALLATION ACCOMPLISH PER BONANZA SERVICE MANUAL - GROUND RUN - UP SATISFACTORY <i>Ben E Vetter AP2144253</i>

DATE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED - SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
3-21-2022	2003.1 SINCE NEW 2083 3 MONTH 145	OIL NOT CHANGED - DIFFERENTIAL COMPRESSION CHECK OF CYLINDERS WAS SATISFACTORY - ENGINE WAS GROUND RUN AND OPERATIONAL CHECK WAS SATISFACTORY - SEE SEPERATE A.D. LISTING FOR COMPLIANCE. I CERTIFY THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 HR. / ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION Burt E Vetter AP2144253 1A.
2023 04-19	2042.0 SINCE NEW 2083 2122.1 5 MONTH 884 187	I CERTIFY THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 HR. / ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION Burt E Vetter AP2144253 1A.
4-78	2042	CHANGED OIL & FILTER SHELL WISW-50 INSPECTED FILTER MEDIA - OK STEVE KOONTZ Steve Koontz #3214015
03-01-2024	2068 SINCE NEW 2148 5 MONTH 210	DRAINED OIL - REMOVED OIL FILTER - INSPECTED THE FILTER ELEMENT - NO SIGNIFICANT MATERIAL NOTED - INSTALLED A NEW FILTER PER FILTER INSTRUCTIONS - SERVICED CRANKCASE TO CAPACITY WITH SHELL 15W-50 OIL DIFFERENTIAL COMPRESSION CHECK 76/80 OR BETTER ON ALL CYLINDERS. REMOVED ALL SPARK PLUGS - CLEANED, REGAPPED, TESTED AND REINSTALLED. ENGINE GROUND RUN-UP OPS CHECK SATISFACTORY - SEE SEPERATE A.D. LISTING FOR COMPLIANCE - I CERTIFY THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 HR. / ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION Burt E Vetter AP2144253 1A.

DATE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED – SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
2025 4-01	2086	DRAINED OIL. REMOVED OIL FILTER AND INSPECTED THE ELEMENT, NO
	SINCE NEW 2166	MATERIAL NOTES. INSTALLED NEW FILTER PER INSTRUCTIONS ON THE FILTER
	SMO H 228	SERVICED CRANKCASE WITH SHELL 15W-50 OIL - DIFFERENTIAL COMPRESSION
		CHECK SHOWED ALL CYLINDERS 75/80 OR BETTER - CLEANED, RE GAPPED
		AND TESTED SPARK PLUGS - REINSTALLED - ENGINE GROUND RUN-UP,
		BPS CHECK, LEAK CHECK SATISFACTORY - SEE SEPERATE AD LISTING
		FOR COMPLIANCE - I CERTIFY THIS ENGINE HAS BEEN INSPECTED IN
		ACCORDANCE WITH A 100HR/ANNUAL AND WAS DETERMINED TO
		BE IN AN AIR WORTHY CONDITION THIS DATE APR 21 4 253 1A.

Continental IO-520-BB S/N 280997-R

8/28/2026 Engine TTSN 4741.33 TTSOH 303.5 Aircraft Tach 2161.8 Perform Annual inspection this date. IAW Beechcraft inspection checklist. Compression checked as follows #1 78/80 #2 76/80 #3 74/80 #4 79/80 #5 76/80 #6 76/80 Removed oil filter, cut and inspected for particles, none found, installed new filter Champion P/N CH48109. Serviced with 12 qts Aero shell 15W50 oil. All AD's checked through By-Weekly 2026-16 No new AD's found. Ground ran ops and leak checked good. I certify that this engine has been inspected in accordance with an Annual inspection and has been found to be in an airworthy condition at this time. Airwerks LLC Marvin Coolidge *Marvin Coolidge* AP27571071A.

