



WESTERN Skyways INC.

GOLD SEAL AIRCRAFT ENGINES

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37
inspector

Engine Make: CONTINENTAL Model: TSIO-520-P
Serial Number: 278621-R W/O No: W056319 Date: 14 MAY 2020
Warranty Number: E20123 Warranty Start Date: MAY 2020
Crankshaft Serial No: 1109201N Cylinder Part Number: CMI 658175 OH

This engine and accessories listed below were overhauled to "Factory New Tolerances" per Overhaul Manual No: X30575 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: 1909.35 HOBBS Hrs.

This engine meets requirements of CONTINENTAL M-0 for 1600.0 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.	6320 NEW	19050369	Prop Gov.	N/A	N/A
R/H Mag.	6320 NEW	20031118	Wastegate	N/A	N/A
Fuel Pump	646768-1A1	B00FA276R	Alt/Gen	N/A	N/A
Inj/Carb.	629703-11A2	D209012AR	VAPC	N/A	N/A
Man Valve	634326-12A1	C05KA138R	Pop Off	N/A	N/A
Starter	C24ST4 NEW	H-T110014	Controller	N/A	N/A
Turbo	N/A	N/A	Pump Vac	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: AC14EC477	#5: AC14JA246
#2: AC14HA949	#6: AC14EA364
#3: AC14JA258	#7: N/A
#4: AC14EC465	#8: N/A



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DATE: 14-May-2020 W/O#: W056319 TYPE OF TEST: Standard Acceptance CRS# WS9R575J

ENGINE MODEL: TSIO-520-P SERIAL NUMBER: 278621-R RPM: 2,700 HP: 310

FUEL OCTANE: 100LL OIL SPEC: 50wt with Royco 581 SPARK PLUGS: RHB32E Torque Checked NOZZLES: G.A.M.I.

TIME MINUTES	RPM	MANIFOLD PRESS	OIL PRESS	OIL TEMP	FUEL PRESS	NOZZLE PRESS	FUEL FLOW	TIT °F	EGT °F	CYLINDER HEAD TEMPERATURE °F							
										1	2	3	4	5	6	7	8
5	1,200	11.3	71	82	10.4	3.2	26.6	N/A	N/A								
5	1,600	13.3	70	99	11.6	3.7	39.9	-	-	210	195	217	212	196	196		
10	2,450	22.0	68	119	21.5	10.5	102.6	-	-	233	215	234	220	199	230		
15	2,700	36.5	46	185	34.6	20.8	183.9	-	-	353	374	372	403	342	358		
10	E.P.C.																
10	2,450	22.0	38	194	21.7	10.4	97.9	-	-	360	417	349	419	341	333		
5	600	13.7	10	171	6.0	3.7	14.3	-	-	275	328	270	326	247	274		
30	2,300	22.0	54	150	20.3	9.3	96.1	-	-	290	282	293	292	265	270		
30	2,300	22.0	44	180	19.6	9.5	92.0	-	-	336	385	342	397	327	334		
5	1,500	15.9	20	190	10.7	4.5	39.3	-	-	-	Engine	Cool	Down	Phase	-		
5	1,500	15.1	27	179	10.5	4.5	38.4	-	-								
2	600	14.2	11	169	6.2	3.6	11.2	-	-								
TEST	600		Min 10		5.5/6.5												
LIMITS	2,700	36.5	30/60	240°F	33.0/37.0	18.4/19.9	180/186			-	-	460°F	Max	-	-		

REMARKS:

AMBIENT AIR TEMP: 81°F ABSOLUTE BAROMETRIC PRESSURE: 24.3" ELEV: 5759' A.S.L.

BOTH MAGS RPM: 2,100 LEFT MAG DROP: 70 RIGHT MAG DROP: 70 FUEL CUT OFF: Good

PROPELLER #: 2 PROPELLER GOVERNOR #: 2

TEST OPERATOR: Jason Becker SIGNATURE: [Signature]

1. Approving Civil Aviation Authority/Country: FAA/United States		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG			3. Form Tracking Number: W056319-100	
4. Organization Name and Address: WESTERN SKYWAYS, INC. 21 CREATIVE PLACE MONTROSE, CO. 81401 WS9R575J					5. Work Order/Contract/Invoice Number: W056319	
6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:	
1	FUEL SYSTEM	649054A16	1	N/A	OVERHAULED	
12. Remarks: 1. Overhauled in accordance with Western Skyways Repair Specification WS1000. 2. Complied with applicable SB's and AD's to date. FUEL PUMP P/N 646768-1A1 S/N B00FA276R MANIFOLD VALVE P/N 634326-12A1 S/N C05KA138R THROTTLE CONTROL P/N 629703-11A2 S/N D209012AR A complete description of work performed is on file at the above referenced organization under the work order and system tracking reference number indicated in Block 3 and 5.						
13a. Certifies the items identified above were manufactured in conformity to: ☐ Approved design data and are in condition for safe operation ☐ Non-approved design data specified in Block 12.			14a. ☒ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 12 Certifies that unless otherwise specified in block 12, the work identified in Block 11 and described in Block 12 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.			
13b. Authorized Signature:		13c. Approval/Authorization No.:		14b. Authorized Signature:		14c. Approval/Certificate No.:
						WS9R575J
13d. Name (Typed or Printed):		13e. Date (dd/mm/yyyy):		14d. Name (Typed or Printed): THOMAS W. FARIS		14e. Date (dd/mm/yyyy): 24 APR 2020
User/Installer Responsibilities						
It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article.						
Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of the country specified in Block 1.						
Statements in Blocks 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.						