

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
		TT ENGINE: 1705.6 HRS SMOH: 0.0 HOURS CONTINENTAL XP470 S/N 278764-R / 3295 WORK ORDER 70292 PAGE 1 OF 2 DATE: 8/4/2021 CONTINENTAL TSIO-520-P S/N 278764-R CONVERTED TO TSIO-520-C, THEN RECONFIGURED TO XP470 ENGINE IN ACCORDANCE WITH DV AVIATION STC SE4988NM. MAJOR ENGINE OVERHAUL PERFORMED IN ACCORDANCE WITH CONTINENTAL MAINTENANCE MANUAL M-0 WITH THE FOLLOWING NEW PARTS INSTALLED: 6EA AAE530658 BUSHING, 8EA 350998 BUSHING, 1EA 536563 DOWEL, 1EA CAM08K1 ADAPTER KIT, 1EA CAM539810M028 SPRING, 1EA 646591A3 BEARING SET, 1EA 537721 BEARING, 16EA 639193 BUSHING, 2EA 643626-104 ROLLER, 1EA 643626-101 ROLLER, 2EA 643626-103 ROLLER, 16EA 643629 PLATE, 6EA 656990 BOLT, 16EA SA629104 SNAP RING, 6EA 646312 NUT, 1EA 631266-1 CLAMP, 1EA 535823 GASKET, 1EA 532432 PLUG, 1EA 631928 HOSE, 2EA 2025 PLUG, 6EA 2476 SCREW, 4EA 634511 NUT, 48EA 652422 NUT, 12EA 652541 NUT, 2EA AN737TW26 CLAMP, 4EA 630826 BEARING, 1EA 641931-9.81 THRU-BOLT, 1EA 641931-10.52 THRU-BOLT, 2EA 2917-8.88 THRU-BOLT, 1EA 2108-10.44 THRU-BOLT, 6EA 2107-10.75 THRU-BOLT, 4EA 2106-10.50 THRU-BOLT, 1EA 2078-1 CAMSHAFT GEAR, 1EA 653749P60 ADAPTER GASKET, 12EA 655961 BOLT, 12EA 654490 NUT, 4EA 654589 BOLT, 4EA 655269 MAG CUSHION, 1EA MS35756-8 KEY, 1EA 634150 SPRING, 1EA 641250 SEAL, 1EA 632762 NUT, 16EA 631972 CLAMP, 1EA 539942-50 BLOCK OFF PLATE, 1EA 632323 TUBE, 1EA 642224 HOUSING, 1EA 46-A227 VENTURI, 1EA 63-B452 NAME PLATE, 1EA 286-1669F DELUXE REPAIR KIT, 1EA 242-525 VALVE, 1EA 655384 CAMSHAFT, 12EA 630826 BEARING, 12EA AAE652129 BUSHING, 1EA 626739 COLLAR, 1EA 642250 CLIP, 2EA MS35265-59 SCREW, 10EA 654439-1 HOSE, 12EA RHB32S SPARK PLUG, 6EA 658088 LIFTER, 6EA 658077 LIFTER, 1EA 630626 BALANCE TUBE, 1EA 10-423684-1 HARNESS, 2EA 401836 STUD, 1EA 402042P003 STUD, 12EA AN315-5R NUT, 2EA MS20074-05-15 BOLT, 2EA 1175-5 CLAMP, 12EA 535668 SCREW, 5EA 646605 NUT, 1EA 2026 PLUG, 1EA 632151 HOUSING, 1EA 632062-3A1 DIP STICK, 1EA 632149 ERACKET, 2EA AN123862 O-RING, 1EA 652137 GASKET, 5EA SA643766-1P05 GUIDE, 4EA SA630242-P05 GUIDE, 6EA SA643873 VALVE, 12EA SA654441 SPRING, 12EA SA654442 SPRING, 12EA 652984DLC ROCKER SHAFT, 6EA 630046DLC PISTON PIN, 24EA 24802 KEY, 6EA 646985 SEAL, 6EA SA629117-1 ROTOCOIL, 6EA SA5000-SC5-P10 RING SET, 2EA 653188 THRUST WASHER, 6EA SA648013-P10 PISTON(FIELD APPROVAL FOR 8.5:1 COMPRESSION, SEE 8110), 2EA SA636242-P10 GUIDE, 1EA SA643766-P10 GUIDE, 1EA 631650 TACH SHAFT, 1EA 631478 SPRING, 1EA 538727-1 WASHER, 2EA 538727-4 WASHER, 1EA 627496 GASKET.

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1. Approving Civil Aviation Authority/Country: United States		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG		3. Form Tracking Number: 21-50487	
4. Organization Name and Address: Rocky Mountain Propellers, Inc. [REDACTED]				5. Work Order/Contract/Invoice Number: 21-50487	
6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:
1	McCauley Governor	DC290D1B-F/T8	1	991120	Overhauled
12. Remarks:					TSN TSO unk 0.00
Overhauled governor in reference to McCauley Service Manual #780401, Rev. 8, and other supporting documents. Complied with Service Letters thru 2014-1H, Service Bulletins thru ASB273C and AD's thru 2020-19-06. Next Overhaul Due: 2000 hours or 60 calendar months, whichever occurs first.					
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 blocks 3 and 5. Notice: An Airworthiness Directive may apply to the article(s) described hereon. The installer is responsible for ensuring complete compliance with any applicable Airworthiness Directives. "Certifies that the work specified in block 11 / 12 was carried out in accordance with FAR Part-145 and EASA Part-145 and in respect to that work the component is considered ready for release to service under EASA Approval Number: EASA.145.4827"					
13a. Certifies the items identified above were manufactured in conformity to:			14a. ☒ 14 CFR 43.9 Return to Service ☒ Other regulation specified in Block 12		
☐ Approved design data and are in a condition for safe operation. ☐ Non-approved design data 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.:		14c. Approval/Certificate No.:	
[REDACTED]		[REDACTED]		[REDACTED]	
13d. Name (Typed or Printed):		13e. Date (dd/mm/yyyy):		14e. Date (dd/mm/yyyy):	
[REDACTED]		[REDACTED]		02 Sep 2021	
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.					

INSPECTION & MAINTENANCE RECORD

DATE: 10-01-2021

N: 8814X

TACH: 6800.58

ENGINE: TCM XP470

S/N: 278764-R / 3295

TSMOH: 0

Completed Condition inspection. All engine controls and systems inspected in accordance with FAR 43 App.D. and checklist. Check and lubricated engine controls. Installed engine model XP470 s/n 278764-R, after Overhaul completed by Ly-con Rebuilding Co. under W.O. 70292, see log entry dated 08/04/2021. Installed with new engine Barry shock mounts and engine mounting hardware, torqued as required and saftied. Installed new parts as follows oil drain valve 1 ea. p/n S6250, 2 ea. Intake heat shield p/n MC0750143-1, 1 ea. Alternator belt p/n 539547-31.19, 1ea. Exhaust muffler shroud assy. p/n A0750161-87, 4 ea. Bonding straps p/n AD0750137, 4ea. Barry shock mounts 94110-40, 1ea. Airforms Alaska engine baffle set p/n C180182-PKGB-PCBL, and engine fuel and oil hoses Teflon with orange firesleeve 1 ea. p/n AE3660121H0090, 1 ea. p/n AE3660121H0064, 1 ea. p/n AE3660001E0460, 1ea. p/n AE3660001B0840, 1 ea. 08-01660 engine mount heat shield kit. Installed overhauled McCauley propeller governor p/n DC290D1B-F/T8 s/n 991120, and overhauled carburetor p/n 10-4893-1 PP MA-4-5 s/n BD-12633. Re-installed air oil separator and return oil drain line to #2 cylinder valve cover. Installed E-Z engine preheater oil sump pad and secured wiring. Installed all new scat tubing and low pressure rubber hose. Re-installed Stratus oil filter adapter with new gasket kit p/n FM07, torqued and saftied. **C/W Stratus oil filter adapter SB-001**, no defects noted. Installed new #4 cylinder CHT probe p/n 5050. Installed new # 5 cylinder EGT probe p/n M-111. C/W Bracket air filter ICA document I-194 by visual inspection, no defects noted. Installed new air filter p/n BA8103-1. Serviced engine with 12 qts. of Aeroshell 100 mineral oil, and pre-oiled engine. AD's researched for current applicability. Washed and degreased engine and cowling. Engine run up checks and leak checks were satisfactory.

I certify that this **ENGINE** has been inspected in accordance with the scope and detail of appendix D of FAR part 43 and was determined to be in a condition for safe operation.

Professional Aircraft Services

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9/25/21	6827.13	CHANGED OIL w/ AGESSTALL 100 11 PTS. OIL FILTER CHANGE
9/30/21	6856.17	CHANGED OIL w/ PHILLIPS xC 20-50, CHANGED OIL FILTER
10/7/21	6902.88	CHANGED OIL w/ PHILLIPS xC 20-50, CHANGED OIL FILTER
		CHANGED OIL PLUGS TO TEMPEST FINE WIRE
10/18/21	6941.3	CHANGED OIL WITH PHILLIPS xC 20-50, OIL FILTER
		LUBED THROTTLE CABLE
11/16/21	7002.14	CHANGED OIL w/ PHILLIPS xC 20-50, OIL FILTER, AIR FILTER
		LUBED THROTTLE CABLE, COMPRESSION 8.5, 8.5, 8.5
		[REDACTED]
		ALL ENTRIES FROM 9/25 - 11/16/2021

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11-19/21	704.22	100 hr Insp Completed Comp 1 7/80 2 7/80 3 7/80 4 7/80 5 7/80 6 7/80 Timing 00° Ste L & R. Air Filter Good Fuel Screen Clean, plugs serviced by owner cht tube connects. I certify this engine has been inspected (70431) and was determined to be in a condition for safe operation
12/1/21	7043.1	oil + filter change
12/15/22	7089.64	oil + filter change REPLACED BOTH TIRES GREASED BEARINGS LUBED THROTTLE CABLE

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1/26/22	7132.67	OIL & FILTER CHANGE, LUBED THROTTLE CLEANED BOTTOM PLUGS [REDACTED]
2/3/22	7182.67	CHANGED OIL & FILTER, CLEANED GAP PLUGS COMP 1 78/80, 2 74/80, 3 78/80, 4 76/80, 5 74/80, 6 72/80 LUBE & ADJUST THROTTLE, CLEAN & GREASE TAIL DEGREASE BOTTOM [REDACTED]
2/15	7232.67	CHANGED OIL & FILTER, RE POSITIONED THROTTLE FIXED LEAK ON MAP GAUGE [REDACTED]
2/22/22	7253.7	REPLACED CLEAVE AND BRAKE O-RING - RT SIDE CLEANED CALIPERS, BLEAD BRAKE LINE [REDACTED]