

Date	Total Time		Time Since Last Overhaul		Engine Service and Maintenance Record Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
	Hrs.	Min.	Hrs.	Min.	
Brought Forward	→				
11/10/9					HYD PUMP INOP. RAR HYD PUMP PN 20240, SN 39412, SEE 8130.3 flight tested A/C

Date	Tach	TT	Make	Model	Serial No.	Reg. No.
07/07/10	3100.04	713.86	Continental	IO-520-A	112875-R	N111BK

1. Changed oil and filter. Installed a new ES48108 filter and serviced with Aeroshell 15W-50.
2. Checked compression : 1. 67/80 2. 65/80 3. 74/80 4. 75/80 5. 72/80 6. 70/80.
3. Cleaned, gapped and tested spark plugs.
4. Cleaned fuel nozzles.
5. Cleaned fuel screen.
6. Pressure tested exhaust system.
7. Checked magneto timing.
8. Test ran engine, no discrepancies noted.

I certify that this engine has been inspected in accordance with an annual inspection and was determined to be in an airworthy condition.

Doug Abbott A&P [redacted] IA [redacted]

CENTRAL CYLINDER SERVICE INC.
 AIRCRAFT ENGINE REBUILDERS
 Certified Repair Station MY2R022L
 6315 Lindbergh Drive • Riverfront Industrial Park • Omaha, NE 68110

Continental IO 520 A S/N 112875-R TT 10-6-10
 Repaired the above engine as necessary. The repair done meets all requirements of a bottom end overhaul. Disassembled, cleaned and inspected as necessary. Replaced crankshaft with new crankshaft. Replaced crankcase with serviceable case. Reassembled engine using the following major parts and other parts listed on W.O. 14454: New rod nuts and bolts, rod bushings, piston pins, piston rings, rod and main bearings, reground camshaft and reconditioned lifters, intake hoses, serviceable oil pump, spark plugs and necessary gaskets and seals. Overhauled both magnetos and installed new oil cooler. No other accessories repaired or overhauled at this time. Applicable AD's complied with. Engine test ran and found airworthy. All work accomplished in accordance with Continental Service Publications. Details of work are on file at this facility W.O. 14454.

[redacted] for CRS [redacted]

Dyna-Tech Aviation Services, Inc.
5935 S. 132nd St. Millard Airport
Omaha, NE 68137

Maintenance Record

atives, Special Inspections,

Brought

10-15-10 N111BK IO-520-A5B S/N-112875-R T.S.N: 750.2 TACH: 3136.3
Remove and reinstall engine after repairs by Central Cylinder Service, Inc. CRS #
MY2R022L under W/O # 14434, dated 10-6-10. Service with Aeroshell 100.
Engine runup and systems check satisfactory for return to service.

Brian Machacek A&P

3 JUN 11

REMOVED THIS TCM ENG. IO-520A S/N 112875-R SENT TO CENTRAL
CYLINDER SERVICE INC. (CRS MY2R022L) FOR PROP. STRIKE INSPECTION
AND REPAIR - SENT PROP. GOVERNOR TO H&H. PROPELLER SERVICE (FAA Repair
Repair Sta. # P#4R451M) FOR PROP STRIKE TEARDOWN INSP. & REPAIR - ENG.
DRIVEN HYD. PUMP SENT TO ACFT. ACCESSORIES OF OKLAHOMA FOR PROP
STRIKE INSP.

TACH 3175.1

A&P

CENTRAL CYLINDER SERVICE INC. AIRCRAFT ENGINE REBUILDERS Certified Repair Station MY2R022L

6315 Lindbergh Drive • Riverfront Industrial Park • Omaha, NE 68110

Continental IO 520 A S/N 112875-R TT 8-2-11
Prop strike inspection and repair. Disassembled above engine, cleaned
and inspected as necessary. Magnafluxed misc. steel parts and zygl
inspected crankcase. Crankshaft ultra-sonic inspected per AD97-26-17
by Aircraft Spec. Reassembled engine using the following major parts
and other parts listed on W.O. 14790: New rod nuts and bolts, crank-
shaft and counterweight bushings, pins, plates and snaprings, crank
seal, necessary gaskets and seals and other parts listed on W.O. Re-
installed cylinders. No other cylinder work done. Inspected magnetos
for sudden stoppage damage. Engine test ran and found to be airworthy.
All work accomplished in accordance with Continental Service Public-
ations. Details of work are on file at this facility W.O. 14790.

for CRS

23 SEP 11

REINSTALLED TCM ENG. IO-520A S/N 112875-R AFTER REPAIRS BY
CENTRAL CYLINDER SERVICE INC. (CRS # MY2R022L UNDER W.O. #14790
DATED 8-2-11 - RE-INST. OVERHAULED PROP. GOVERNOR BY H&H. PROPELLER
SERVICE (FAA REP. STA. NO. P#4R451M) UNDER W.O. 18331 DATED 11 AUG 11
(SEE TAG) (OVER)

AIC

MAJOR ALTERATIONS

DATE	DESCRIPTION OF ALTERATION	NAME OF PART
3 JUNE 11	REMOVED TCM ENG. IO-520A S/N 112875-R FROM THIS ACFT. AND SENT TO CENTRAL CYLINDER SERVICE INC. (CRS MY2R0221) FOR PROP STRIKE TEARDOWN INSPECTION AND REPAIR-SENT PROP. GOV. (WOODWARD MODEL C210680 S/N HH0611) TO H&H. PROPELLER SERVICE (FAA REPAIR STA. NO. P#4R451M) FOR PROP. STRIKE INSP. & REPAIR- SENT ENG. DRIVEN HYDRAULIC PUMP (PART # 20240-1CF S/N 39417) TO AIRCRAFT ACCESSORIES OF OKLAHOMA FOR PROP STRIKE INSP. & REPAIR. TACH 3175.1 [REDACTED] APP [REDACTED]	1 AUG 11 (CONT.)
1 AUG 11	THE FOLLOWING WORK PERFORMED IN CONJUNCTION WITH ENG. PROP. STRIKE TEARDOWN INSPECTION & REPAIR: REPLACED COWL FLAP SHOCKMOUNTS- REPLACED EXH. HANGER SHOCKMOUNTS- REMOVED AND REPLACED COWL FLAP CABLES- REPAIRED CRACK WITH SHEET METAL DOUBLER FIREWALL LOWER RH. SIDE- PLASTIC BATT. BOX TRAY REPAIRED- REPLACED ENGINE BAFFLING MATERIAL AS NEEDED- INSTALLED STIFFNER RING IN FIBERGLASS HEAT DUCT @ FIREWALL LH. SIDE- FIBERGLASS DUCT REPAIRED LT. ENG. BAFFLE TO HEAT MUFF (OVER)	23 SE

LIFE LIMITED PARTS OR OVERHAUL REQUIREMENTS

NAME OF PART	PART NUMBER	SERIAL NUMBER	INSTALLATION DATE/HOURS	TIME ON PART AT INSTALL	LIFE LIMIT OR T.B.O.	REMOVAL DATE/HOURS	AGENCY CERT. NO.
1 AUG 11 (CONT.)	REPAIRED CRACKS	MUFFLER	SHROUD	(2) PLACES - SENT	RH. EXH. COLLECTOR		
	4 RH. MUFFLER TO DAWLEY AVIATION (CRS # JSR069N)				FOR REPAIRS - WELDED		
	CRACK L.H. EXH. COLLECTOR -	DRILLED	ALIGNMENT HOLE @	LH. MUFFLER & TAIL-PIPE & SECURED -	REPAIRED CRACKS WITH SHEET METAL DOUBLERS ENG. BAFFLING		
	AS NEEDED - RMUD. & REPLACED PROP. CONTROL CABLE -				RMUD. AIR BOX ASSY		
	FABRICATED & INSTALLED REPAIR DOUBLERS AS NEEDED -				REPLACED ALT. AIR		
	DOOR SHAFT & BEARINGS -						
						TACH 31751	
						ADP	
23 SEP 11	INSTALLED REPAIRED ENG. BY CENTRAL CYLINDER SERVICE INC (IO-520A SN						
	112875-R) UNDER W.O. 14790 DATED 8-2-11 -				INSTALLED REPAIRED RH. EXH.		
	COLLECTOR AND L.H. MUFFLER ASSY REPAIRED BY DAWLEY AVIATION (CRS #						
	NSR069N UNDER W.O. 104039 (SEE TAG) INSTALLED NEW RAPCO VAC. PUMP						
	PART # RAP216CW SN B24134 DATE OF MFG 28 APR 11 -				INST. REPAIRED ENG.		
	DRIVEN HYD. PUMP BY ACFT. ACCESSORIES OF OKLAHOMA CRS # RV3RB29L						
	W.O. # 46752 SEE FAA FORM 8130-3 DATED 27 JUL 11 -				INST. OVERHAULD PROP.		
	GOUVERNOR WOODWARD MODEL C210680 SN HH0611 BY H&N PROPELLER SERVICE						
							(OVER)

[illegible][illegible]

WO#: V12-0125

DATE: 4/13/2012

VAR-115

3. Repaired the line from the Static system to the S-Tec 60 PSS altitude transducer with new line. The Static system was tested and found to be free of excessive leak. Installed Pilot Secondary Seat Stop i/a/w Bulletin SB 07-5 Rev. 3. Removed and replaced the left and right heat duct lines with new lines P/N S1110ET19.50. END

Continued.

Signature: [Redacted]

ATION R

Technician

Inspector

Date

Baromete

28.10

28.50

29.00

29.50

29.92

RECORD

NEXT COMP.
DATE/HRS./CYCLE

AUTHORIZED SIGNATURE
CERTIFICATE NO.

The ATC Transponder Tests & Inspections Required by FAR 91.411 & 91.413 were performed this date and found to comply with FAR 43, Appendix E & F.

Transponder Model AT165 S/N 11192

Signature [Redacted]

Date 10-9-12 [Redacted]

26 OCT 12 AIRCRAFT LUBRICATED - GASCOLATOR SUC'D - REPLACED AIR FILTER ELEMENTS - A/C BATT. SERVICED & CHG'D - REPLACED VAC. SPONGE FILTER - ELT BATTERY REPLACED - ELI SYS. INSP. & OP'S CILID IAW FAR 91.207d BATT. DUE CHG. (JAN 2015) - ALL WHEEL BEARING CLEANED & REPACKED - REPLACED LT. MAIN TIRE - CLEANED & LUBRD BRAKE CALIPER BOLTS - REPLACED ORING RT. BRAKE CALIPER - REPLACED (2) OUTBD BRAKE LININGS RT. MAIN - BLEED BRAKES - SUC'D TIRES - NOSE GEAR TORQUE LINKS RE-SHIMMED - SUC'D NOSE STRUT WITH NITROGEN (OVER)

[illegible]

A.D./BULL. NUMBER	ITEM AFFECTED	DATE & HRS. AT COMP.	METHOD OF COMPLIANCE	TYPE OF A.D. 1 TIME/RECUR.	NEXT COMP. DATE/HRS./CYCLE	AUTHORIZED SIGNATURE CERTIFICATE NO.
26 OCT 12	RETRACTION CHECKED AFT. NORMAL & EMERGENCY (NO DEFECTS NOTED) - REPLACED					
(CONT.)	RH9 LH ALARON AFT PUSH ROD & ROD ENDS - CLEANED & TREATED CORROSION ON FUEL					
	FILLER NECKS - REPLACED FUEL CAP GASKETS - CLEANED ALL TERMINAL CONNECTIONS					
	ON MASTER RELAY - REPLACED BOTH HOSES @ HYD. PUMP - REPAIRED BAD GROUND L.H. NAV					
	LITE & INST NEW BULB - REPLACED BOTH NAV LITE LENS GASKETS - REPLACED (1) EXISTING					
	LANDING LITE BULB WITH LED TYPE - REPLACED RIV-NUTS AS REQ. SEAT RAIL TRIM					
	STRIPS - REPLACED REAR SEAT ROLLER WASHERS - SEAT BELTS REWEBBED C&M MARINE					
	AVIATION SERVICES & RE-INSTALLED - REPAIRED PLASTIC GUARD FOR COUNTERWEIGHT ASSY					
	PILOTS SIDE - CIW AD 71-24-04 FLAMMABLE FLUID HOSES PER PARA (a) & (b) CRID SATIS.					
	RECURRING - CIW AD 85-10-02 AIR BOX INSP. (SATIS) RECURRING - CIW AD 2011-10-09 SEAT &					
	SEAT RAILS BY INSP. SATIS. RECURRING EACH 100 HRS OR ANNUAL - CIW AD 76-07-12 IGNITION					
	SWITCH BY OPS CK SATIS. RECURRING - CIW ICA GNS 430 SECURITY OF WIRING & CONNECTIONS					
	CRID SATIS -					
	Date <u>26 OCT 2012</u>					
	I certify that this aircraft engine					TACH 0049.2
	has been inspected in accordance with a					[Redacted]
	<u>ANNUAL</u> inspection and was determined					A&P [Redacted]
	to be in airworthy condition					
	Total time <u>4546.91</u> tach time <u>0049.2</u>					
	[Redacted]					
	IA [Redacted]					

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Brought Forward	→				
23 SEP 11					
(CONT.)					RE-INST REPAIRED ENG DRIVEN HYDRAULIC PUMP BY AIRCRAFT ACCESSORIES OF OKLAHOMA (CRS # RV3RB291) SEE FAA FORM 8130-3 W.O.# 46752 DATED 27 JUL 11 - REPLACED EXISTING VACUUM PUMP WITH NEW UNIT RAPCO 216CW SN B24134 DATE OF MFG. 28 APR 11 - INSTALLED NEW HARTZELL TOP PROP CONVERSION PER STC SA 02B21CH SEE FAA FORM 337 - SERVICED ENG WITH AEROSHELL 100 OIL - RUN UP LEAK & OP'S CK'D ENGINE (CK'D SATIS)
					TACH 3175.1
Date <u>23 SEP 11</u> I certify that this aircraft engine has been inspected in accordance with a <u>ANNUAL</u> inspection and was determined to be in airworthy condition total time <u>788.92</u> tach time <u>3175.1</u>					[Signature] AIP [Redacted]
					IA [Redacted]
20 FEB 2012					REMOVED FACTORY FUEL INJECTOR NOZZLES AND INSTALLED GAME FUEL INJECTOR NOZZLES (SEE FAA 337 DATED 2 FEBRUARY 2012) - RUN UP OPS CK SATISF.
					TACH: 3195.5
					[Signature] AIP [Redacted]
26 OCT 2012					COMPRESSION CHECKED ENGINE #1(68) #3(71) #5(72) #2(72) #4(73) #6(68) CHANGED OIL & FILTER - INSP. OLD FILTER SATIS. - SERVICED ENG 15W50 AEROSHELL OIL - CK'D MAG POINTS & TIMING (SATIS) - CLEANED AND GAPPED SPARK PLUGS - FUEL INJECTION NOZZLES CLEANED AND RE-INST. - FUEL INJECTOR INLET SCREEN CLEANED & RE-INST. - TIGHTENED ALTERNATOR BELT - BORESKOPED ENG. SATIS. - REPOSITIONED OIL FILTER ADAPTER FOR CLEARANCE ON ENG. Baffle - ENGINE WASHED DOWN & RUN UP AND LEAK AND OP'S CK'D SATIS.
Date <u>26 OCT 2012</u> I certify that this aircraft engine has been inspected in accordance with a <u>ANNUAL</u> inspection and was determined to be in airworthy condition total time <u>871.93</u> tach time <u>0049.2</u>					TACH 0049.2 [Signature] AIP [Redacted]
					IA [Redacted]