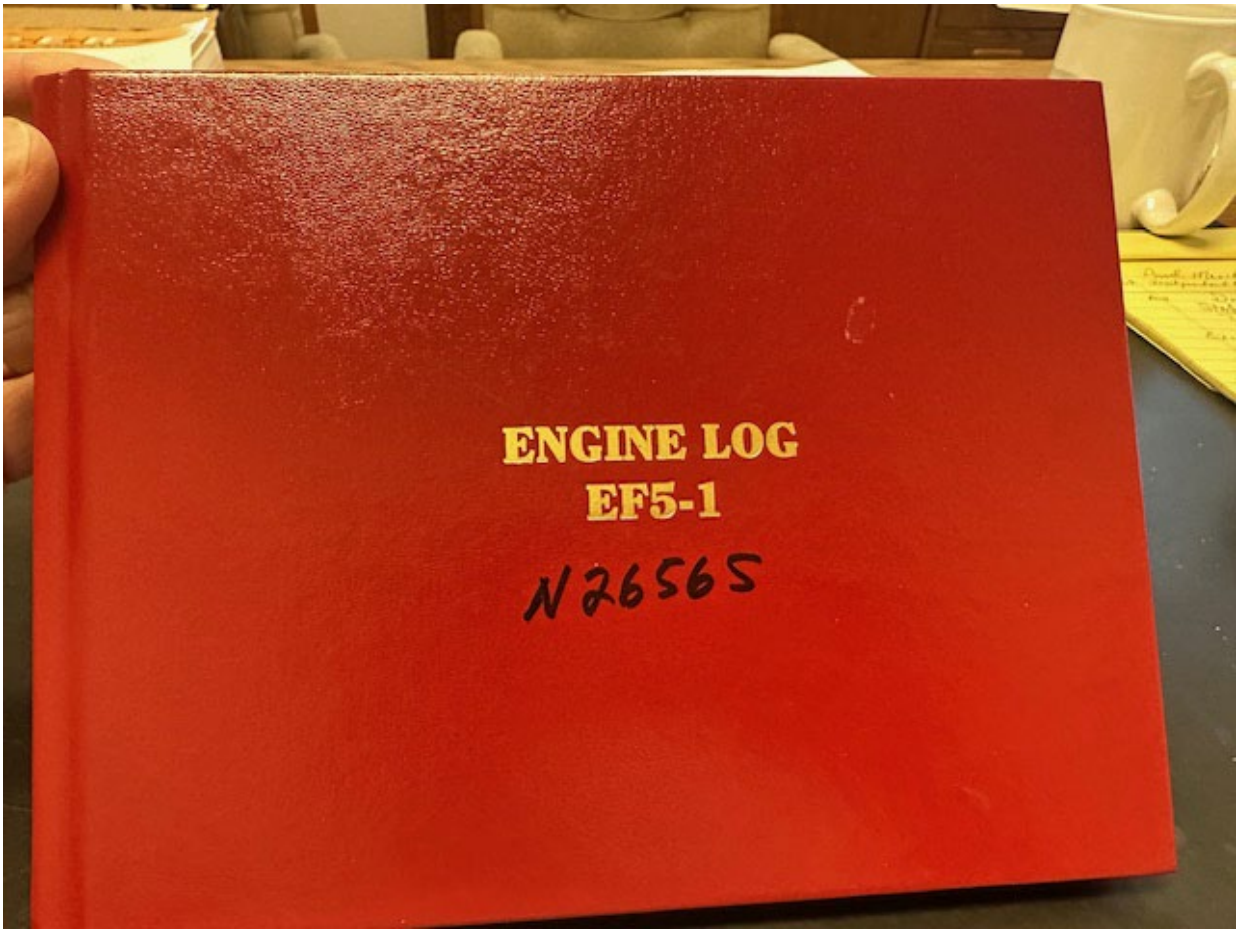
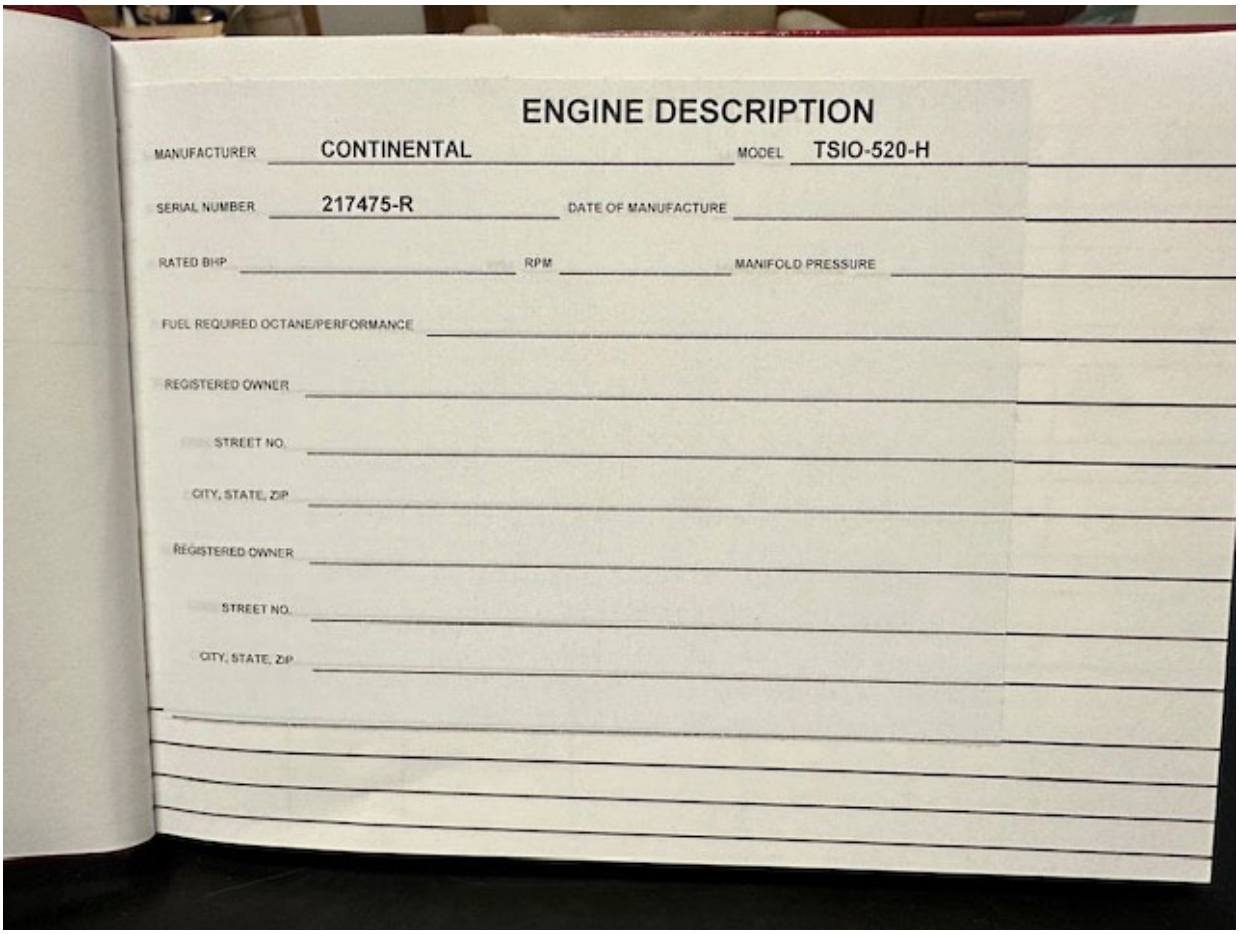
From: Dan Jay
To: Danford Jay
Subject: Logs Eng
Date: Tuesday, January 6, 2026 4:47:44 PM





ENGINE DESCRIPTION

MANUFACTURER CONTINENTAL MODEL TSIO-520-H

SERIAL NUMBER 217475-R DATE OF MANUFACTURE

RATED BHP RPM MANIFOLD PRESSURE

FUEL REQUIRED OCTANE/PERFORMANCE

REGISTERED OWNER

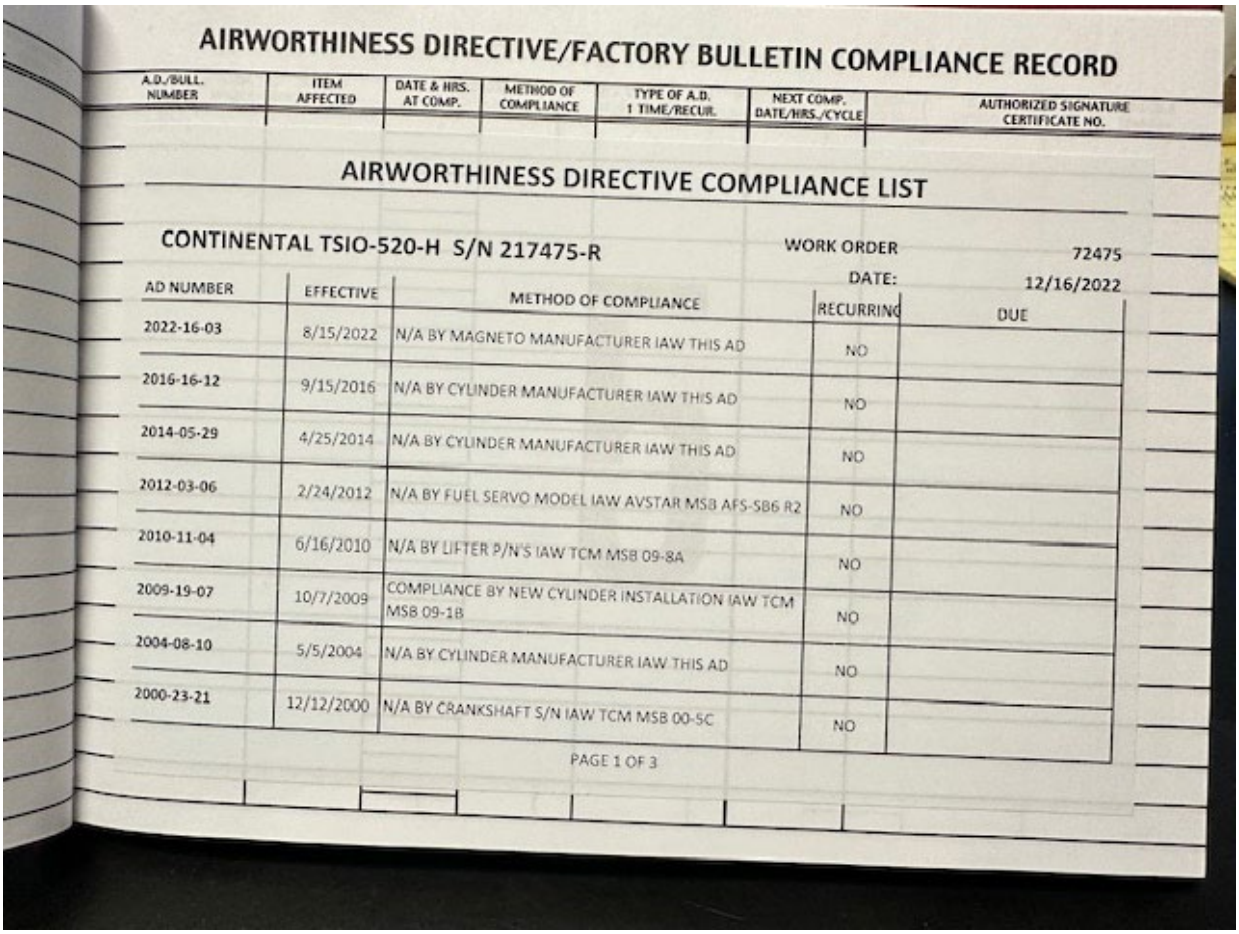
STREET NO.

CITY, STATE, ZIP

REGISTERED OWNER

STREET NO.

CITY, STATE, ZIP



AIRWORTHINESS DIRECTIVE/FACTORY BULLETIN COMPLIANCE RECORD

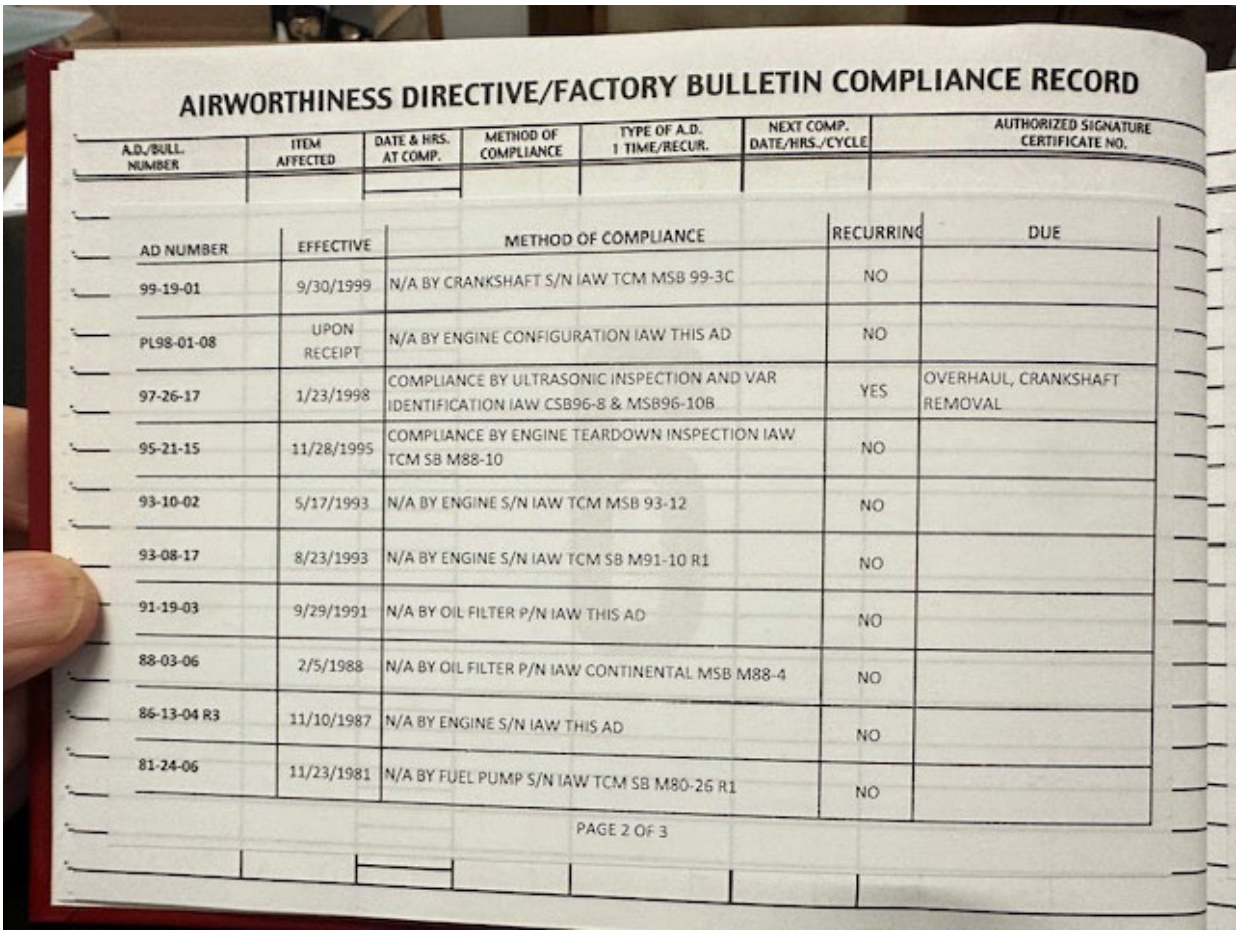
A.D./BULL. NUMBER	ITEM AFFECTED	DATE & HRS. AT COMP.	METHOD OF COMPLIANCE	TYPE OF A.D. 1 TIME/RECUR.	NEXT COMP. DATE/HRS./CYCLE	AUTHORIZED SIGNATURE CERTIFICATE NO.

AIRWORTHINESS DIRECTIVE COMPLIANCE LIST

CONTINENTAL TSIO-520-H S/N 217475-R WORK ORDER 72475

DATE: 12/16/2022

AD NUMBER	EFFECTIVE	METHOD OF COMPLIANCE	RECURRING	DUE
2022-16-03	8/15/2022	N/A BY MAGNETO MANUFACTURER IAW THIS AD	NO	
2016-16-12	9/15/2016	N/A BY CYLINDER MANUFACTURER IAW THIS AD	NO	
2014-05-29	4/25/2014	N/A BY CYLINDER MANUFACTURER IAW THIS AD	NO	
2012-03-06	2/24/2012	N/A BY FUEL SERVO MODEL IAW AVSTAR MSB AFS-SB6 R2	NO	
2010-11-04	6/16/2010	N/A BY LIFTER P/N'S IAW TCM MSB 09-8A	NO	
2009-19-07	10/7/2009	COMPLIANCE BY NEW CYLINDER INSTALLATION IAW TCM MSB 09-1B	NO	
2004-08-10	5/5/2004	N/A BY CYLINDER MANUFACTURER IAW THIS AD	NO	
2000-23-21	12/12/2000	N/A BY CRANKSHAFT S/N IAW TCM MSB 00-5C	NO	



AIRWORTHINESS DIRECTIVE/FACTORY BULLETIN COMPLIANCE RECORD

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.

AD NUMBER	EFFECTIVE	METHOD OF COMPLIANCE	RECURRING	DUE
99-19-01	9/30/1999	N/A BY CRANKSHAFT S/N IAW TCM MSB 99-3C	NO	
PL98-01-08	UPON RECEIPT	N/A BY ENGINE CONFIGURATION IAW THIS AD	NO	
97-26-17	1/23/1998	COMPLIANCE BY ULTRASONIC INSPECTION AND VAR IDENTIFICATION IAW CSB96-8 & MSB96-10B	YES	OVERHAUL, CRANKSHAFT REMOVAL
95-21-15	11/28/1995	COMPLIANCE BY ENGINE TEARDOWN INSPECTION IAW TCM SB M88-10	NO	
93-10-02	5/17/1993	N/A BY ENGINE S/N IAW TCM MSB 93-12	NO	
93-08-17	8/23/1993	N/A BY ENGINE S/N IAW TCM SB M91-10 R1	NO	
91-19-03	9/29/1991	N/A BY OIL FILTER P/N IAW THIS AD	NO	
88-03-06	2/5/1988	N/A BY OIL FILTER P/N IAW CONTINENTAL MSB M88-4	NO	
86-13-04 R3	11/10/1987	N/A BY ENGINE S/N IAW THIS AD	NO	
81-24-06	11/23/1981	N/A BY FUEL PUMP S/N IAW TCM SB M80-26 R1	NO	

AIRWORTHINESS DIRECTIVE/FACTORY BULLETIN COMPLIANCE RECORD

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.

AD NUMBER	EFFECTIVE	METHOD OF COMPLIANCE	RECURRING	DUE
80-01-04	1/25/1980	N/A BY NEW CYLINDER INSTALLATION IAW THIS AD	NO	
79-05-09	3/12/1979	N/A BY ENGINE S/N IAW THIS AD	NO	
77-13-22 R1	7/22/1977	COMPLIANCE BY ENGINE S/N IAW THIS AD	NO	
77-05-04	3/11/1977	N/A BY FACTORY REBUILT ENGINE IAW TCM SB M77-6 S1	NO	
2011-26-07	1/24/2012	N/A BY MAGNETO MODEL IAW THIS AD	NO	
99-04-04	2/25/1999	N/A BY MAGNETO MODEL IAW SLICK SB 1-98	NO	
81-16-05	8/6/1981	N/A BY MAGNETO MODEL IAW THIS AD	NO	
80-06-05	2/4/1980	N/A BY MAGNETO MODEL IAW THIS AD	NO	
74-18-05	8/28/1974	N/A BY MAGNETO MODEL IAW SLICK SB 1-74	NO	

LY-CON REBUILDING CO 8231 W DOE AVE VISALIA, CA 93291

(559)651-1070 REPAIR STATION CT3R435L

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.

CONTINENTAL TSIO-520-H S/N 217475-R

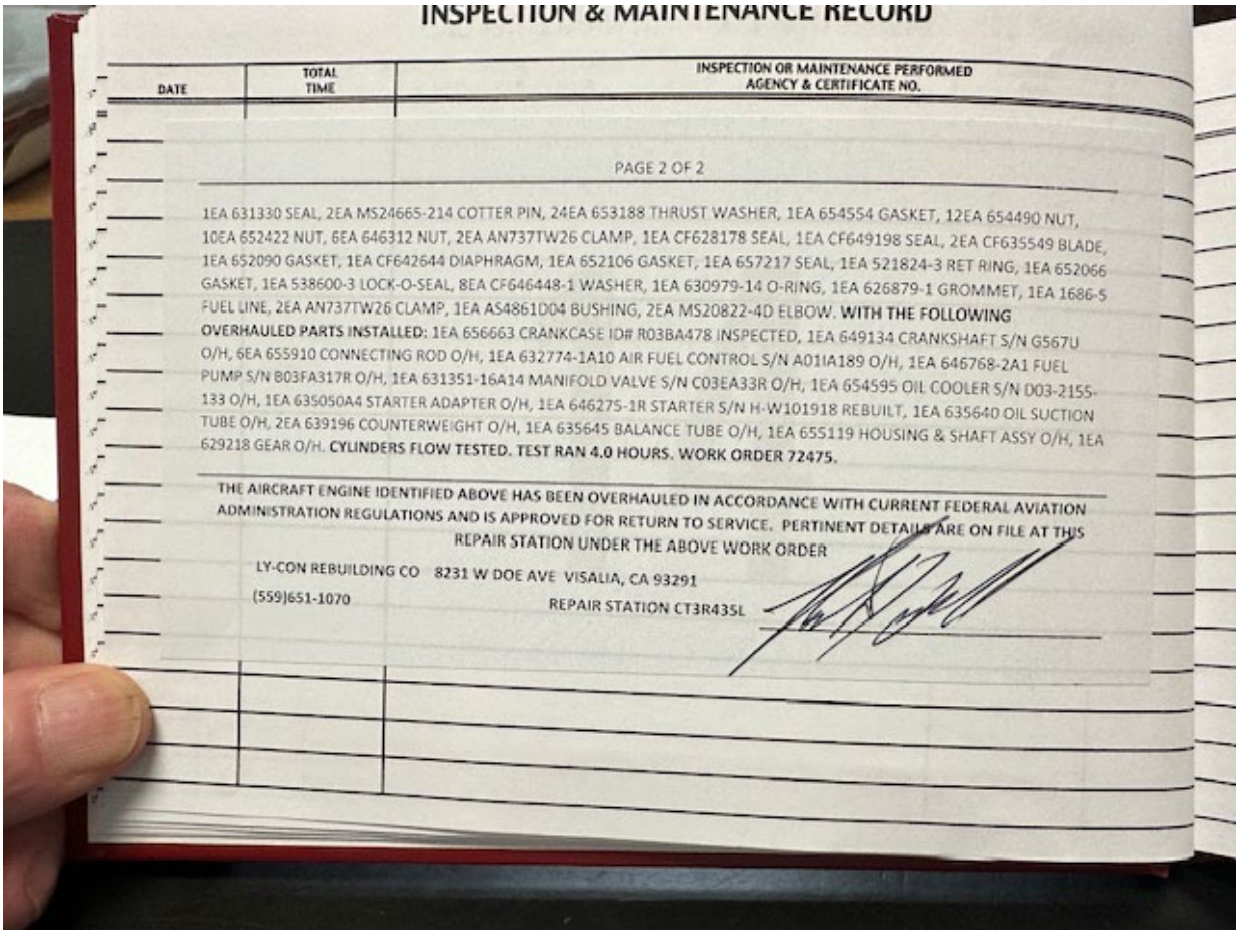
TT ENGINE:

WORK ORDER: 72475

SMOH: 0.0 HOURS

DATE: 1/17/2023

MAJOR ENGINE OVERHAUL PERFORMED IN ACCORDANCE WITH CONTINENTAL OVERHAUL MANUAL X30575 WITH THE FOLLOWING NEW PARTS INSTALLED: 1EA 637832 DOWEL, 8EA 350998 BUSHING, 6EA 658714 BUSHING, 1EA SA646548-A1 GASKET SET, 1EA 2108-10.44 THRU-BOLT, 2EA 2917-8.88 THRU-BOLT, 4EA 2106-10.50 THRU-BOLT, 6EA 2107-10.75 THRU-BOLT, 1EA 2107-10.52 THRU-BOLT, 1EA 652422 NUT, 12EA SA652541 NUT, 4EA 634511 NUT, 2EA 2025 PLUG, 1EA 537721 BEARING, 6EA 24764 SCREW, 1EA 535823 GASKET, 1EA 631928 HOSE, 1EA 631266-1 CLAMP, 6EA 656990 BOLT, 16EA 643629 PLATE, 16EA 629104 RET RING, 4EA SA643626-101 PIN, 2EA SA643626-103 PIN, 2EA SA643626-104 PIN, 1EA 641250 SEAL, 4EA 654589 BOLT, 1EA MS35756-8 KEY, 6EA SA628488 LIFTER, 6EA SA646277 LIFTER, 1EA 632762 NUT, 1EA X1473 GASKET, 1EA CH48108-1 OIL FILTER, 10EA 654439-1 HOSE, 12EA 1170-2 CLAMP, 4EA 1170-5 CLAMP, 1EA 637255-4 CLAMP, 2EA 633958-5 COMP SEAL, 6EA 652436-1 CLAMP, 6EA 633958-3 SEAL, 12EA 655958 BOLT, 1EA 1686-5 FUEL LINE, 2EA 1686-2 FUEL LINE, 2EA 1686-4 FUEL LINE, 1EA 3663753E0100 HOSE, 1EA 3663753E0320 HOSE, 1EA AE3663753E0180 HOSE, 4EA 655269 MAG CUSHION, 12EA URHB32E SPARK PLUG, 1EA MS21044N4 NUT, 1EA 629084 BODY ASSY, 1EA 2078-1 CAMSHAFT GEAR, 1EA 2075-11 CRANKSHAFT GEAR, 2EA 642536 BAFFLE, 1EA 631915 HOUSING, 2EA 639195 COUNTERWEIGHT, 1EA MS20822-8D ELBOW, 1EA AN914-4D ELBOW, 1EA AN816-3D FITTING, 20EA 630979-9 O-RING, 1EA J2005-2 LORD MOUNT, 1EA ES6310 MAGNETO S/N K-K06168, 1EA ES6310 MAGNETO S/N K-K08189, 1EA 641931-9.81 THRU-BOLT, 6EA 658810A4 CYLINDER KIT, 1EA 655384 CAMSHAFT, 1EA SA646591-A1 BEARING SET, 1EA 626739 COLLAR, 12EA 630826 BEARING, 2EA 630979-20 O-RING, 2EA 630979 O-RING, 2EA 538600-1 WASHER, 1EA 649983 GASKET, 1EA CF625327-1 WASHER, 1EA C626813 PIN, 2EA CF625457-1 WASHER, 2EA 539942 SCREW, 2EA CF625327-2 WASHER, 2EA SA537690 WASHER, 2EA 2500 COTTER PIN, 3EA 501867 WASHER, 2EA 2024 PLUG, 1EA 629338 SHROUD, 1EA 643943 SHIELD, 12EA AAE652129 BUSHING, 1EA 654758-1 WOODRUFF KEY, 1EA KA12381B IGNITION HARNESS, 6EA 654840 PISTON, 6EA SA630046 PISTON PIN, 1EA 634150 SPRING,1EA 646605 NUT, 1EA 626536 DIAPHRAGM



INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.

PAGE 2 OF 2

1EA 631330 SEAL, 2EA MS24665-214 COTTER PIN, 24EA 653188 THRUST WASHER, 1EA 654554 GASKET, 12EA 654490 NUT, 10EA 652422 NUT, 6EA 646312 NUT, 2EA AN737TW26 CLAMP, 1EA CF628178 SEAL, 1EA CF649198 SEAL, 2EA CF635549 BLADE, 1EA 652090 GASKET, 1EA CF642644 DIAPHRAGM, 1EA 652106 GASKET, 1EA 657217 SEAL, 1EA 521824-3 RET RING, 1EA 652066 GASKET, 1EA 538600-3 LOCK-O-SEAL, 8EA CF646448-1 WASHER, 1EA 630979-14 O-RING, 1EA 626879-1 GROMMET, 1EA 1686-5 FUEL LINE, 2EA AN737TW26 CLAMP, 1EA AS4861D04 BUSHING, 2EA MS20822-4D ELBOW. **WITH THE FOLLOWING OVERHAULED PARTS INSTALLED:** 1EA 656663 CRANKCASE ID# R03BA478 INSPECTED, 1EA 649134 CRANKSHAFT S/N G567U O/H, 6EA 655910 CONNECTING ROD O/H, 1EA 632774-1A10 AIR FUEL CONTROL S/N A01IA189 O/H, 1EA 646768-2A1 FUEL PUMP S/N 803FA317R O/H, 1EA 631351-16A14 MANIFOLD VALVE S/N C03EA33R O/H, 1EA 654595 OIL COOLER S/N D03-2155-133 O/H, 1EA 635050A4 STARTER ADAPTER O/H, 1EA 646275-1R STARTER S/N H-W101918 REBUILT, 1EA 635640 OIL SUCTION TUBE O/H, 2EA 639196 COUNTERWEIGHT O/H, 1EA 635645 BALANCE TUBE O/H, 1EA 655119 HOUSING & SHAFT ASSY O/H, 1EA 629218 GEAR O/H. **CYLINDERS FLOW TESTED. TEST RAN 4.0 HOURS. WORK ORDER 72475.**

THE AIRCRAFT ENGINE IDENTIFIED ABOVE HAS BEEN OVERHAULED IN ACCORDANCE WITH CURRENT FEDERAL AVIATION ADMINISTRATION REGULATIONS AND IS APPROVED FOR RETURN TO SERVICE. PERTINENT DETAILS ARE ON FILE AT THIS REPAIR STATION UNDER THE ABOVE WORK ORDER

LY-CON REBUILDING CO 8231 W DOE AVE VISALIA, CA 93291

(559)651-1070 REPAIR STATION CT3R435L

...INSPECTION & MAINTENANCE RECORD

DATE

STEVE'S AIRCRAFT
4695 Highland Springs Road
Lakeport, Ca. 95453

Reg: N2656S | Make/Model: Continental TSIO-520-H | S/N: 217475-R
Date:12/06/2023 | Page 1 of 2 | Tach: 3677.8

1. Installed overhauled Continental Engine TSIO-520-H, SN: 217475-R by Ly-Con Engines this date as follows:
   a. Prepare engine bay, remove corrosion in all areas, prime as required.
   b. New engine mounts (4).
   c. Sealed around cables in firewall.
   d. Repaired exhaust system by Custom Aircraft Parts W.O. 20668.
   e. Repaired alternator PN: DOFF10300B, SN: 5041348 by Aircraft Electrical Components W.O. 44217 see 8130-3 form dated 04/14/2022.
   f. New replacement hoses fuel/oil.
   g. Overhauled turbocharger PN: 406610-9005 SN: JIR0276 by Main Turbo Systems W.O. 63420, see 8130-3 form dated 10/06/2022.
   h. Overhauled controller PN: 470688-5 SN: FCO119 by Main Turbo Systems W.O. 63516, see 8130-3 form dated 10/20/2022.
   i. Overhauled wastegate PN: 470908-11 SN: FCO213 by Main Turbo Systems W.O. 63421, see 8130-3 form dated 10/06/2022.
   j. Overhauled pressure relief valve PN: 470930-1 SN: FBO156 by Main Turbo Systems W.O. 63423, see 8130-3 form dated 10/06/2022.
   k. Overhauled propeller governor PN: C290D4A/T2 SN: 760108 by Redline Aviation W.O. 4888, see 8130-3 tag dated 05/27/2022.
   l. New vacuum pump.
   m. New vacuum hoses.
   n. Repaired/powder coated engine baffles, formed upper baffles, fit all internal baffles, installed with new baffles seals.
   o. Replaced overboard drain tubes, fuel/wastegate, intake drain as required.

...continued...

INSPECTION & MAINTENANCE RECORD

Reg: N2656S | Make/Model: Continental TSIO-520-H | S/N: 217475-R
Date:12/06/2023 | Page 2 of 2 | Tach: 3677.8

...continued...

p. Installed existing EGT/CHT probe system, intake heatshields, alternator/wiring, cooling ducts, engine mount heat shields, all as original.
q. Installed cabin heat.
r. Run checked engine to check fuel flow pressures. Fuel pressure adjusted to 650 RPM 6-6.5 PSI and at 2,700 RPM. Unmetered rise to 31-32.5 PSI with metered at 17-17.5 PSI within specs RPM idle mixture rise at 50 RPM.
s. Serviced with Phillips 20-50M mineral oil.

All work accomplished with the following parts:

2	J-12453-1	Engine Lord Mount Rear
1	J-12453-6	Engine Lord Mount front right
1	2150000-200	Engine Lord mount front left
1	AA3216CW	Vacuum pump
1	111417-4S-0095	Hose
1	111417-4S-0122	Hose
1	S2416-1-31.0	Belt V
3	MS20036-5	Bolt
1	MS0036-7	Bolt
6	NAS464P6A6	Bolt
8	S1604-4	Nut
4	S1604-6	Nut
12	20W50	Engine Oil
1	624000-3-0097	Hose Assy
1	624000-3-0193	Hose Assy
1	624000-3-0365	Hose Assy
1	624000-4-0132	Hose Assy
1	624000-4-0165	Hose Assy
1	624000-4-0196	Hose Assy
1	624000-4-0316	Hose Assy
1	624000-4-0414	Hose Assy
1	624000-4-0423	Hose Assy
1	624000-6-0135	Hose Assy
1	624000-8D0117	Hose Assy
1	624000-8D0253	Hose Assy
1	AE3660001E0100	Hose Assy
1	AE3660001E0335	Hose Assy
1	AE3660001G0562	Hose Assy
1	624000-4-0356	Hose Assy

Steven D. Culbertson AP2073958IA

INSPECTION & MAINTENANCE RECORD

TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.

Engine Log

AC Registration: N2656S
AC SN: 21061346
Eng SN: 217475-R

Hobbs: 3679.7
TSMOH:1.9

12/25/2023: Inspected engine in accordance with the manufacturer's MM. Compressions are as follows: 1-79/80 2-78/80 3-80/80 4-78/80 5-78/80 6-79/80.

I certify that this engine has been inspected per part 43 appendix D and the manufacture's MM in accordance with an annual inspection and found to be in an airworthy condition.

Signed: _____ Cert# AP 2755213 IA

INSPECTION & MAINTENANCE RECORD

TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.

Engine Log

Registration: N2656S
SN: 21061346

Hobbs: 3704.2
AC TT: 3704.2
Engine TSO: 24.5

Received aircraft and opened up engine cowling. Gained access to TIT probe and removed. Installed new customer-provided probe part number 2871 serial number 11564. Ops check OK.

Drained engine oil. Removed and replaced oil filter with new. Cut open old filter and inspected for particles and debris, none found. Serviced engine with 9 quarts of Aeroshell 100 plus and 16oz of cam guard. Run up and leak check ok.

Reinstalled cowlings

Dan Dawson A&P 2795213 Date: 7/3/24 Signature

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.

Engine Log

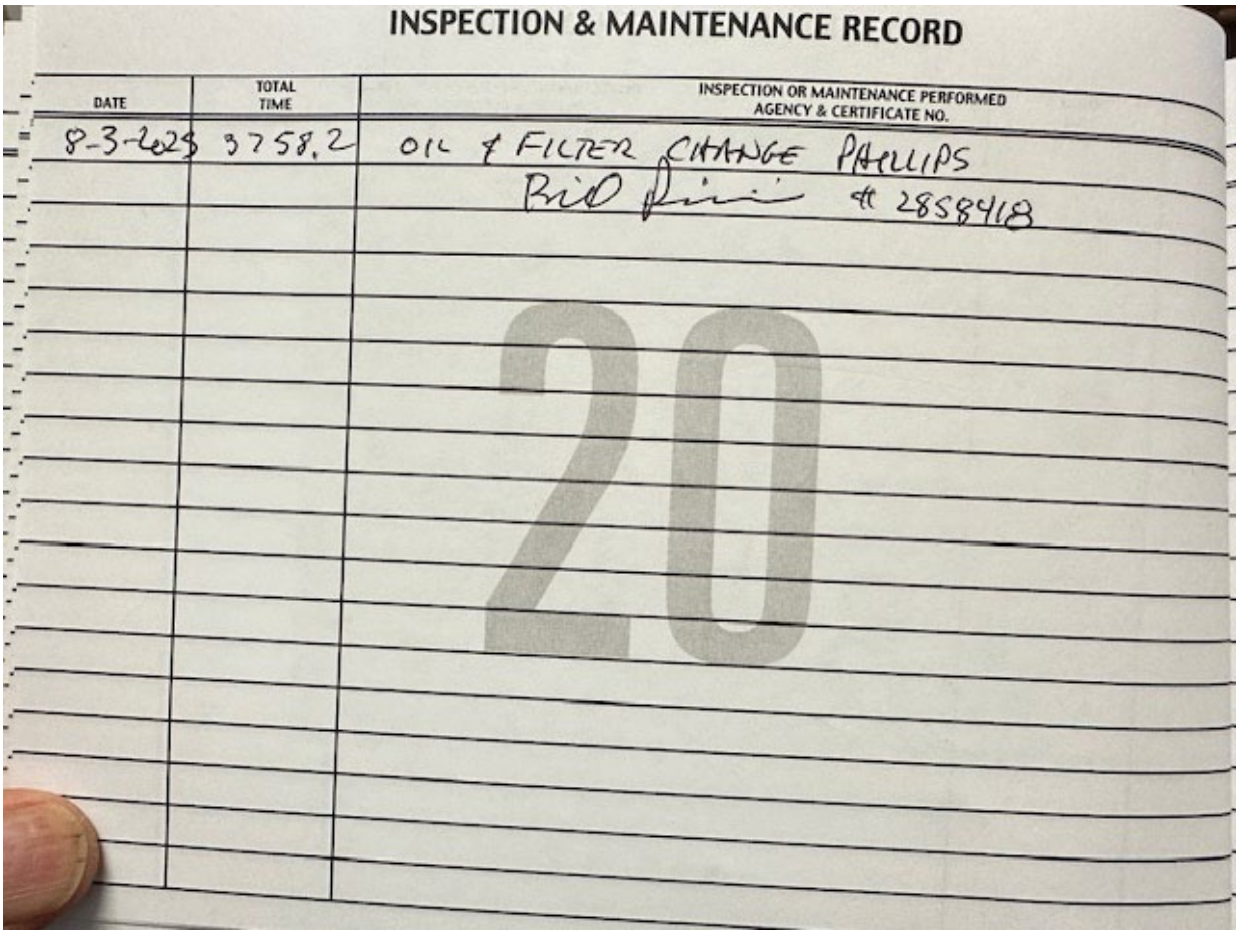
AC Registration: N2656S
Eng SN: 217475-R

Hobbs: 3728.6
TSMO 50.8

2/4/2025: Inspected engine IAW and annual/100hr inspection.
Compressions are as follows: 1: 78/80 2: 78/80 3: 79/80 4: 77/80 5: 78/80 6: 78/8
Cleaned, inspected, gapped and tested plugs.
Verified Magneto timing.
Run up and leak check ok. Oil pressure ok. Reinstalled cowlings

I certify that this engine has been inspected in accordance with an annual inspection IAW FAR part 43 appendix D and the manufacture's maintenance manual and found to be in an airworthy condition.

Signed: _____ Cert: 2752 13 IA



INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
8-3-2023	3758.2	OIL & FILTER CHANGE PHILLIPS
		Rich Phillips # 2858418

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Sent from my iPhone