

AIRCRAFT TECHNICAL RECORD

* Section 3. ENGINE LOG

Section 3A: Engine Service and Maintenance Log

DATE / /	TIME RUN		TIME SINCE OVERHAUL		CYCLES		DESCRIPTION OF WORK PERFORMED: (INSPECTION, REPAIRS, REPLACEMENT)
	HOURS	min	HOURS	min	Sub Total	TOTAL	
6-24-2022						83.9	DRAINED oil. Removed oil filter. Installed TEMPEST AA48110-2. ADDED 7 QTS Aeroshell 100W AND CAM GUARD. RAW for LEAKS - NONE NOTED. Terry A. Hoyle Repairman Cert. #340218
5-26-2023						106.7	DRAINED oil. Removed oil filter. Installed TEMPEST AA48110-2. ADDED 7 QTS of Aeroshell 100W & CAM GUARD. RAW for LEAKS NONE NOTED. Terry A. Hoyle Repairman Cert. #340218
<p>I certify that this engine has been inspected IAW A Condition Inspection and was found to be in an Airworthy Condition Cold Compression Check #1 72/80 #2 72/80 #3 74/80 #4 76/80 Checked Ignition Timing - Cleaned Fuel Injectors, CLEANED & GAPPED PLUGS - END of ENTRY - Terry A. Hoyle Repairman Cert #340218</p>							
2-21-2024						130.9	DRAINED oil. Removed oil filter. Cut open to check for contaminants, none found. Installed TEMPEST AA48110-2. ADDED 7 QTS of Phillips ZAWSUXC plus CAM GUARD. RAW for LEAKS, NONE NOTED.
3-2-2024						131.0	I certify that this engine has been inspected IAW A Condition Inspection and was found to be in an Airworthy Condition. Cold Compression Check #1 - 71/80 #2 - 74/80 #3 - 74/80 #4 - 74/80. Checked Ignition timing - Cleaned fuel injectors. CLEANED, GAPPED PLUGS. Removed SIKY-TEC 148-1228 STRIPPER - S/N H-R100978. Installed same - S/N H-Y010193 8130 entered into Engine Log - END of ENTRY - Terry A. Hoyle Repairman Cert #340218
<p>THIS PAGE TOTALS</p> <p>PREVIOUS TOTALS</p> <p>TOTALS SINCE NEW</p>							

Section 3A: Engine Service and Maintenance Log

DATE / /	TIME RUN		TIME SINCE OVERHAUL		CYCLES		DESCRIPTION OF WORK PERFORMED: (INSPECTION, REPAIRS, REPLACEMENT)	NAME/ SIGNATURE	LICENCE: AME or AMO/ACA						
	HOURS	min	HOURS	min	Sub Total	TOTAL									
7/31/2018	00	00	TT	UnKnown			IO-320-C1A/B1A SN# RL-3520-55A was disassembled, cleaned, inspected, repaired, modified for experimental use. This engine model is now XIO-320-B1A Experimental Use Only. Engine inspected IAW the latest revision of the Table of Limits SSP 1776 for dimensions as required. Complete NDT inspection IAW 60294-7 & MSB533B & IAW the latest revision of Service Instruction No. 1285. This engine has been overhauled and tested IAW SI 1427-C and using the parts listed: 13B37023 S/N V531928319 crankshaft, 4ea 78030 rods serv. inspected MSB632 N/A bushings not affected, SL78027 rod bolts, 8ea SL12186 rod nuts, 8ea 69373 rod bearings, 4ea 11021 main bearings, 2ea 13884 front main bearings, 1ea 1028B oil PSI ball, 1ea 61084 oil PSI spring, 1ea AEL19600 vernatherm valve, 8ea SL72877 lifter/tappet, 8ea 15B26066 hyd units, 1ea 76097 camshaft Rick Romans 52786, 1ea new LW19646 gear & STD-2213 crankshaft gear bolt and gear installed IAW SB475C, 1ea SL18109S oil pump impeller kit, 1ea LW15473 pump fuel, 4ea STD1821 drain hose, 4ea intake hoses, 2ea 10-500514-1 serv. magnetos, 8ea 38Eplugs, 1ea EX5 Servo & flow divider overhauled (AirFlow Perf) 8ea SL74637 bushing, 4ea TIST04-OCA New Cylinders Complete (see 8130-3s) 1-AC17LA561, 2-AC17LA571, 3-AC17LB299, 4-AC17LB307, 4ea SL15357 9.1 pistons, 4ea ST203 ring sets, 4ea SL13790A rocker shafts, 4ea AEL14077-1 pins, 8ea SL12892 buttons, 1ea SL75441-1 seal & gasket set, 6ea lw16266-10-65, 4ea lw16266-10-75 clamps and fuel lines were installed in accordance with the latest revision of SB342, STD-1925 screws valve cover, 204418-156 oil filter adapter, 1ea SAXGov drive assembly, 1ea CH48110 test filter, 1ea CH48110-1 oil filter fly away, 1ea W100 mineral oil case (test) The work listed was performed and inspected by: James N Brod Jr. A&P 3016060 IA <i>[Signature]</i> 7/31/2018								
11/16/2017			AD	compliance	XIO-320-C1A/B1A	SN# RL-3520-55A									
2017-16-11			Rod bushing /	inspected	and not applicable	to this AD									
2015-19-07			Fuel inj lines /	installed	IAW MSB342G										
			(next due inspection	100 hrs annual)											
2012-19-01			Crankshafts /	N/A per	MSB-569A										
2012-03-06			Fuel servo diaphragm /	New N/A	see AFP for compliance										
2009-26-12			Cylinder assemblies /	affected cylinders	not installed										
2009-02-03			Fuel injection servos /	New N/A	see AFP for compliance										
2007-04-19			R1 SAP cylinder assemblies /	affected cylinders	not installed										
2006-12-07			ECi cylinder assemblies /	affected cylinders	not installed										
2004-10-14			Crankshaft gear /	installed gear & screw	IAW SB475-C										
			(Next due at any gear repair or overhaul)												
1003-14-03			Rotary Pump /	NA affected pump	not used	LW15473 installed									
98-02-08			Crankshaft /	complied with	SB505 but N/A constant speed										
97-15-11			Cylinder kits /	affected cylinders	not installed										
96-23-03			High pressure fuel pumps /	affected pump	not installed										
96-09-10			Oil pump /	affected pump	not installed										
90-04-06			R1 Gov Line (must be	complied with	by installing mechanic)										
87-10-06			R1 Rocker Arm /	affected parts	not installed										
			James N Brod Jr. A&P 3016060 IA												
			<i>[Signature]</i>												
							7/31/2018								
THIS PAGE TOTALS															
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TOTALS SINCE NEW															

10-15-2018 Installed on Thrup T18, N2181t - S/N 2347
Hoses & Engine Contacts Connected per Lye MANUAL.

T. Hagle 269630

4-4-2020 DRAINED oil, Removed oil filter, Installed Champion CH48110-1 oil filter, Added 8 QTS AeroShell 100W & CAM GUARD. TEST RUN FOR LEAKS, NONE NOTED.

24.5 TTAE

1 June 2020 I certify that the engine has been inspected in accordance with an Condition inspection and was determined to be in AIRWORTHY Condition. Cold Compression Check #1-77, #2-76, #3-76, #4-76

32.1 Repairman Cert 4370218

4-7-2021 DRAINED oil, Removed oil filter. Installed Tempair 48110-2. ADDED 7 QTS AeroShell 100W. RAN for LEAKS, NONE NOTED.

40.4 Repairman Cert 4340218

- I certify that the engine has been inspected in accordance with a Condition Inspection and was determined to be in AIRWORTHY Condition. Compression Check - WARM #1 79/80 #2 77/80 #3 77/80 #4 77/80 - END of ENTRY -

69.1 Repairman Cert

5-5-2022 I certify that the engine has been inspected in accordance with a Condition Inspection and was determined to be in AIRWORTHY Condition. Cold Compression Check #1-75 #2-74 #3-75 #4-74 CLEANED Fuel Injectors, Check Timing, Clean GASP PLOW - END of ENTRY -

4370218

ENGINE DATA

1. Make X10-320-B1A
 2. Model Lycoming
 3. Specification 170 hp 9.0-1 compression
 4. Manufacturer's Serial Number RL-3520-55A
 5. Date of Manufacture N/A
- Experimental use only

Firing Order 1.3.2.4

