

DATE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED -- SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
2/4/13	527.2	ACTT. 10532.1 10350.970 ENG TT 10443.8 100 HRC DRAINED & SERVICED 10QTS 100W 50 Aeroshell R&R OIL FILTER C148108. CLEANED & CHD PINGS. COMP. 7/8 @ 78/80 ③ 76/80 ④ 76/80 ⑤ 76/80 ⑥ 76/80 RE TORQUED OIL FILTER ADAPTER & RE SETTED ACFT OK TO RETURN TO SERVICE THIS DATE J Berchick AP 20659657A
1-4-18	1988.2	Removed Engine Due To overhaul, T.SOH 1641.6 ETT 3968.6 Excellent Clm AP 601444958.

03/29/18
MODEL: IO-520-F
S/N: 175771-R
TACH READING: ETT: 3968.6 TSMOH: 0.0

AIRCRAFT ENGINE SPECIALISTS, LLC
2330 SOUTH AIRPORT BOULEVARD, SUITE #5
CHANDLER, ARIZONA 85286
(480) 516-0390 CRS # ZF7R728Y

This engine has been overhauled in accordance with the Continental Overhaul Manual X30039 and other FAA-approved procedures. Applicable FAA Airworthiness Directives and manufacture service bulletins have been complied with, see AD sheet. All parts have been inspected and accessories are either new or newly overhauled. NDT parts w/ N1677-18-01. Crankcase repaired by Nickson's w/ 44278. Camshaft repaired by ACSS w/ 247056. Crankshaft part number 649134, serial number N07HA522 repaired by AEA w/ 188261. Lifters overhauled by ACSS w/ 247056. New Superior cylinder kits installed part number SA52006, sn's #1-526A-1032100, #2-526A-1032114, #3-526A-1032106, #526A-1032111, #5-526A-1032102, #6-526A-1032104. New large crankshaft gear 657175 installed at this overhaul. Fuel system overhauled by Great Planes WO 18-174, Fuel Pump 646212-23A3 sn B02JA380R, Fuel Control 629399A8 sn A02JA345R, Manifold Valve 631351-17A5 sn C02JA336R, Starter 646275-1R sn F083977 overhauled by Airpower w/ 042221. Oil cooler pn 8000677 and 654595 overhauled by Pacific w/ 107386. Magneto RT 6310 sn 17040926, new Magneto LT 6310 sn 16080496, new Engine test run and was found in airworthy condition. Further details of this engine overhaul may be found at this facility under work order E5433-18-01.

James Wheeler

James Wheeler

Parts Used on WO# E5433-18-01

1	401893	STUD	1	646591A3	BEARING SET	4	654589	SCREW CAM
1	501867	WASHER	1	AAE7977	SHIM, STARTER ADPTR	4	655269	BUSHING
1	534715	RING	1	AEC631845	CAMSHAFT GEAR ECI	4	628321-38	SCREW
1	534938	OIL SEAL	1	AN123862	O-RING	4	643626-101	PIN
1	536563	DOWEL	1	AN316-9R	NUT	5	21007	SCREW
1	629353	BUSHING	1	AN960C916	WASHER	6	656990	SCREW
1	631683	COUPLING	1	CH48110-1	FILTER	6	641931-10.75	BOLT
1	633845	SCREW	1	M2381	HARNESSE	6	652436-1	CLAMP
1	639305	VALVE	1	MS21919DG8	CLAMP	6	AN4062-1	PLUG, DEHYDRATOR
1	657175	GEAR	1	MS29561-222	O-RING	6	SA52006-A20P	PWR ASSY NEW 520 STD CAST
1	13XX299	WASHER	1	S539600M030	SPRING	6	SA530658	BUSHING CONN ROD (SPLIT)
1	21208A2	HOUSING	1	SA537745	GASKET	6	SA534857-S	GASKET
1	502287-3	RING	1	SA641250	SEAL	6	SA630046	PIN
1	534685AC	BEARING	1	SA646548-A1	GASKET SET	8	SA350998	BUSHING
1	624000-4-0100	HOSE ASSY	1	TC48110	OIL FILTER	10	654439-1	HOSE ASSY
1	624000-4-0140	HOSE ASSY	1	X13041AC	BEARING	12	630826	BEARING
1	624000-4-0282	HOSE ASSY	2	6310	MAGNETO	12	651490	NUT
1	624000-4-0324	HOSE ASSY	2	629163-5	CLAMP	12	655961	CON ROD BOLT
1	631275-2	BRACKET	2	643626-103	PIN	12	RHB32E	SPARK PLUG
1	637255-4	CLAMP	2	643626-104	PIN	12	SA520129	BUSHING
1	640620-9	CAP-OIL	2	652887-8.88	BOLT	16	QS200M36H	CLAMP
1	641368AC	BEARING	2	MS35756-8	KEY	16	SA629104	SNAP RING
1	641931-10.52	BOLT	2	NAS1805-4	NUT	16	SA639193	BUSHING
1	641931-9.81	BOLT	2	QS200M6H	CLAMP	16	SA643629	PLATE
1	642335A1	REL VALVE KIT	2	SA641361	RETAINER			
1	646140-2	STUD	4	2025	PLUG .375 PIPE			

DATE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED -- SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
7-8-2020	692.1	
		ACT: 12593 0 C/w WORK Eng INSP Per TCM ck
		LIST - SEE New Log Book - yellow
		NS4110 Eng Log SECTION 3

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	
513119			196.2				
BROUGHT FORWARD →							
Tach 196.2							C/W 100hr Inspection per T.C.M. S.P. MM, Compression Checks #2 $\frac{72}{80}$ #4 $\frac{70}{80}$ #6 $\frac{70}{80}$ #5 $\frac{70}{80}$ #3 $\frac{70}{80}$ #1 $\frac{70}{80}$ Magneto Timing checked to 22° BTDC R.L. Cleaned Gapped and Retaked Spark Plugs Inspected and cleaned fuel inlet screen I certify That this power plant has been Inspected in Accordance with a 100hr Inspection and was Determined to be In Airworthy condition Elliot C/M AP601444958 5-3-19 TT 12004.6 TSOH 196.2 All AD's Researched Through 2019-09
8-8-19			295.5				Complied with A 100 hour Inspection using T.C.M. S.P. MM checklist Compression Checks #2 $\frac{74}{80}$ #4 $\frac{70}{80}$ #6 $\frac{70}{80}$ #5 $\frac{72}{80}$ #3 $\frac{70}{80}$ #1 $\frac{70}{80}$ Magneto Timing checked to 22° BTDC R.L. Installed new URHB32E Spark plugs Inspected fuel inlet screen, Drained oil, Removed AND cut Filter no Defects noted, Serviced with AA-48110-2 Filter Complied with AD 96-12-22 Oil Filter Adapter, no defects noted next due AFTT 12289.6 OR Filter Removal. I certify That This Powerplant Has Been Inspected In Accordance with a 100hr Inspection AND was Determined Airworthy AT This Date, All AD's Researched Through Bi-Weekly 2019-16 Elliot C/M AP601444958 8-8-19
AFTT 12189.6							
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NAME/
SIGNATURELICENCE:
AME or
AMO/ACA

10-10-19

Hobbs 391.6

ET 12200.0

AFT 12285.7

Complied with 100hr Inspection using T.C.M
S.P. M/M Checklist compression As Follows
#2 $\frac{78}{80}$ #4 $\frac{78}{80}$ #6 $\frac{78}{80}$ #5 $\frac{78}{80}$ #3 $\frac{78}{80}$ #1 $\frac{78}{80}$ Magneto
Timings checked to 22° BTDC R.L. cleared Gapped
AND Rotated Spark Plugs, Inspected and cleaned Inlet
fuel screen, Drained oil, Removed filter, cut open
AND Inspected no Defects noted, Serviced with 10 W-5
Phillips 20W-50 x1C oil and AA-48/10-2 filter, complied
with AD 96-12-22 oil Filter Adapter, By Inspection
of nut and Torque Strip no Defects noted next Due
AT 491.6 Hobbs or oil change, All AD's Researched
Through Bi-weekly 2019-20 Performed full Power
Run-up and Magneto check no Defects noted
I certify That This Power plant Has been
Inspected In Accordance with a 100 hour Inspection
AND was Determined Airworthy At This Date
Elmer Clift AP601444958 10-10-19 TSOH 391.6

Section 3A: Engine Service and Maintenance Log

DATE 12 17 19	TIME RUN		TIME SINCE OVERHAUL		CYCLES		DESCRIPTION OF WORK PERFORMED: (INSPECTION, REPAIRS, REPLACEMENT)
	HOURS	min	HOURS	min	Sub Total	TOTAL	
BROUGHT FORWARD		12299, 2					
Tach			490.8				C/W Annual Inspection,
TSMOH			490.8				Drained oil, cut and Inspected Filter
							No Defects Noted, Serviced with AA48110-2
							Filter and 10 qts Phillips 20W-50XRC oil,
							Compression Reads #2 76 #4 76 #6 78 #5 76 #3 78
							#7 78, Complied with 500 hour Magsno
							Inspection, Work performed By Air Power WO #
							104168 and WO#104167, Re-Installed using
							New Gaskets Timed To 22° BTDC, Cleaned
							Gapped and Rotated SPARK Plugs, complied
							with AD 96-12-22 oil Filter Adaptor By
							Visual Inspection of Torque Strip no
							Defects Noted next Due 100hrs or oil change
							C/W Inspection Per TCM S.P Manual 6-167, 6-168
							Checklist, performed full power Run-up no
							Defects Noted, A/V AD's Researched Through Bi-
							weekly 2025-19, I Certify That This
							Power Plant Has Been Inspected In Accordance
							with A Annual Inspection AND was found
							TO be Airworthy At This DATE Sert C/W AP
							60144958 IA TSMOH 490.8
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NAME/
SIGNATURELICENCE:
AME or
AMO/ACA

2-27-20 Tech 588.8 TT 12397.2

TSMOH 588.8 complied with 100 hour Inspection
per TCM Table 6-29 100 hour checklistCompression Reads #2 $\frac{78}{80}$ #4 $\frac{78}{80}$ #6 $\frac{78}{80}$ #5 $\frac{78}{80}$ #3 $\frac{76}{80}$ #1 $\frac{77}{80}$ magneto Timing checked TO 22° BTDC R, L, , Drained
oil, Removed Filter, cut-OPEO, Inspection no Defects

or debris noted, Installed new AA48110-2 Filter

AND serviced with 110ts Phillips 20W-50XIC oil,

complied with AD 96-12-22 oil Filter Adapter, Torque Strip

OK, next due AT oil change or 100 hrs Tech 688.8

cleaned Gapped AND Rotated Spark Plugs, Install

with new M-674 Gaskets. Cleaned Fuel Control Screen

performed Full Power Run-up no leaks or

Defects noted All AD's Researched Through Bi-weekly 2020-04

I certify That This powerplant Has been Inspected

In Accordance with A 100hr Inspection AND was

Found To be Airworthy AT This Date 2020-04

AP60144458 ET 12397.2 TSMOH 588.8

7-8-2020 - Tech 696.3 AET 12593.0

C/w 100HR INSP - PER - TCM TABLE 6-29 100HR ck List

C/w AD OIL FILTER ADAPTER OIL FILTER INSP - for C.

O, 12593.0 NEXT DUE @ 12693.0

I Certify That this Eng - Powerplant has been insp.

I.A.W. 100HR INSP ck List AND found to be

Airworthy AT this time AND Approved for Return

TO Service AT this DATE -

ASP 3206729

Section 3A: Engine Service and Maintenance Log

DATE / /	TIME RUN		TIME SINCE OVERHAUL		CYCLES	
	HOURS	min	HOURS	min	Sub Total	TOTAL
BROUGHT FORWARD →						

DESCRIPTION OF WORK PERFORMED:
(INSPECTION, REPAIRS, REPLACEMENT)

ENGINE
DATE: 02/27/2023 **REG#:** N54110 **S/N:** U20604509
ENG M/N: IO-520-F **S/N:** 175771-R **ENG TT:** 4826.8 **ENG TSO:** 858.2
AC TT: 12,752.3 **HOBBS:** N/A **TACH:** 858.2 **PROP TT:** 2,317.2 **PROP TSO:** 858.2

INSPECTIONS:
-Complied with 100 Hr. Inspection on Engine IAW Continental Aerospace Technologies Standard Practice Maintenance Manual for Spark Ignited Engines, Publication #: M-0, Change 3 dated 6 January 2023, Chapter 6, Sub-Chapter 6-4.4.

AD's & SB's:
-AD research completed thru Bi-weekly 2023-05.
-Performed Engine Cylinder Compression Check IAW Teledyne Continental Motors, Service Bulletin # SB03-3, dated 03/28/2003 and checked as follows: #1: 72/80, #2: 71/80, #3: 76/80, #4: 76/80, #5: 74/80, #6: 71/80.

MAINTENANCE:
-Complied with engine oil change by installing 11 qts. of Phillips X/C 20W50 oil and 1 ea. Tempest AA48110-2 Oil Filter IAW Cessna Aircraft Model 206 and T206 Series Service Manual, Doc. # D2070-13, Rev. 3, dated – Jan 2, 1996, Section 2, Par. 2-22

I certify that this engine has been inspected IAW 100 Hr. Inspection IAW Continental Aerospace Technologies, Publication #: M-0, Chapter 6, Sub-Chapter 6-4.4, which meets the requirements of 14 CFR Part 91, Paragraph 91.409 and 14 CFR Part 43 Appendix D, 100 Hr. Scope and Detail, and was found to be in an airworthy condition.

[Signature]
Chad Barta
A&P 502705446IA

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