

THE
adlogTM

AIRCRAFT
MAINTENANCE
RECORDKEEPING
SYSTEM



**ENGINE
MAINTENANCE
RECORDS**

Custom Airmotive, Inc.
FAA REPAIR STATION #DC2R763K
AIRCRAFT ENGINE SERVICE
2702 N. SHERIDAN, BLDG. B
TULSA, OK 74115
(918) 836-6836
FAX (918) 836-9431

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
TOTALS brought forward from previous page				

ENGINE MAJOR OVERHAULED TO MANUFACTURERS SPECIFICATIONS

TT 5361.19 TSMOH 2.1 (test run time only)
 MODEL IO-520-BB S/N 578940

The aircraft engine identified above was repaired and inspected in accordance with manufacturers specifications and current Regulations of the Federal Aviation Administration and is approved for return to service. Pertinent details of the repairs are on file at this repair station under,

Work order number 24676
 Dated 30 JAN 2015 Signed Marhl. Lichter for

Custom Airmotive, Inc.
 2702 North Sheridan Road (Bldg. B)
 Tulsa, OK 74115 USA
 Ph. 918-836-6836 Fax 918-836-9431
 FAA Certified Repair Station DC2R763K

Fuel system was also overhauled (see maint. release). Ignition harness, magnetos, spark plugs and oil filter are new. This engine is equipped with New Genuine Continental cylinders P/N 658175A4 (BP) steel bore cylinders
 Model IO-520-BB S/N 578940 WO# 24676 Total Time 5361.19
 A.D. # Method of compliance

- 79-05-09 P/C/W; HAD ACCEPTABLE RELIEF VALVE COMPONENTS.
- 80-01-04 N/A TO THESE NEW CYLINDERS (MANUF. DEC. 2014).
- 81-24-06 C/W BY FUEL SYSTEM O-H @ CRS#HK2R875K.
- 86-13-04 N/A TO THESE NEW CYLINDERS (MANUF. DEC. 2014).
- 87-14-02 N/A TO THIS P/N STARTER ADAPTER.
- 88-03-06 N/A TO THIS AA48108-2 FILTER.
- 88-17-03 N/A TO THIS P/N STARTER ADAPTER.
- 91-19-03 N/A TO THIS AA48108-2 FILTER.
- 93-10-02 N/A TO THESE PROPERLY ASSEMBLED CYLINDERS.
- 93-16-15 C/W; USED 653359 COUPLING.
- 97-26-17 C/W SB96-10A; CRANKSHAFT ULTRASONIC INSP. & IS VAR TYPE.
- 98-17-11 N/A TO THIS CRANKSHAFT (NOT SENT TO NELSON).
- 99-19-01 C/W BY USE OF CRANKSHAFT S/N F039308N (VAR TYPE).
- 00-23-21 C/W BY USE OF CRANKSHAFT S/N F039308N.
- 04-08-10 N/A TO THESE OEM CYLINDERS.
- 07-04-19 N/A TO THESE OEM CYLINDERS.
- 09-19-07 N/A TO THESE CYLINDERS MANUF. DEC. 2014.
- 10-11-04 N/A; AFFECTED P/N LIFTERS NOT INSTALLED.
- 12-03-06 C/W @ FUEL SYS. OVERHAUL; AFFECTED PART NOT INSTALLED.
- 14-05-29 N/A TO THESE OEM CYLINDERS.

Signed Marhl. Lichter for CRS# DC2R763K on 30 JAN 2015

~~TACH + 255.9 - T.F.P.B~~ ~~TACH + 255.55¹² ENGINE T.T. = TACH + 254.99~~
~~TACH - 5106.1 - T.S.M.O.H.~~ I.O.520.BB
 SN 578940 TACH - 5106.2 = T.S.M.O.H. Page No. 2

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED - SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
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TOTALS brought forward from previous page

2-17-2015 Tach 5106.2 Engine Total Time 5361.65 TSMOH .46

Installed Continental engine M/N IO-520-BB S/N 578940, overhauled by Custom Airmotive, Inc., see work order number 24676 in back of logbook in Beechcraft Bonanza F33A N857KS S/N CE-1751. Completed a 100 hour/annual inspection in accordance with Beech Bonanza Maintenance Manual. Researched AD'S thru issue 2015-03. Serviced engine with 12 quarts of Phillips X/C 20W-50 mineral oil. Complied with 300 hour engine control rod inspection. Next due tach 5406.2. Ran engine and checked for leaks. I Certify This Engine Has Been Inspected In Accordance With A 100 Hour/Annual Inspection And Was Determined To Be In An Airworthy Condition.

Phil Albino I.A. 3191202

3-13-2015 Tach 5133.9 Engine Total Time 5388.89 TSMOH 27.7

Completed 25 hour oil change. Drained oil removed oil filter and inspected for metal, installed new P/N CH48108-1 oil filter and serviced with 11 quarts of Phillips X/C Aviation oil 20W-50. Ran engine and checked for leaks.

Mulin R. Kuder AEP 3153062

4-2-2015 Tach 5156.4 Engine Total Time 5411.39 TSMOH 50.2

Completed a 50 hour inspection in accordance with Kansas State University at Salina 50 hour inspection sheet. Drained engine oil, removed oil filter and inspected for metal. Installed new oil filter P/N CH48108-1 and serviced engine with 11 quarts of Phillips X/C 20W-50 oil. Ran engine and checked for leaks.

Wah Spitt ADP 3234319

5-5-15 Tach 5206.4 Engine Total Time 5461.39 TSMOH 100.2

Completed a 100 hour inspection in accordance with Beech Bonanza Maintenance Manual. Researched AD'S thru issue 2015-08. Drained engine oil, removed oil filter and inspected for metal. Installed a new AA48108-2 oil filter and serviced engine with 11 qts of Phillips X/C 20W-50 oil. Compression test results #1 73/80, #2 73/80, #3 72/80, #4 74/80, #5 74/80, #6 72/80. Removed, cleaned, inspected, rotated, and installed spark plugs. Removed, cleaned, inspected, and installed injectors. Checked engine to magneto timing 22 btdc and installed a new gasket P/N MS35769-11. Removed, cleaned, inspected fuel inlet screen and installed a new gasket P/N649983. Ran engine and checked for leaks. I Certify This Engine Has Been Inspected In Accordance With A 100 Hour Inspection And Was Determined To Be In An Airworthy Condition.

Phil Albino ADP 3191202

SUB-TOTALS this page

TOTALS-Carry forward to next page

Tach - 5106.2 = T.S.M.O.H
 Tach + 254.99 = T.T.

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Teledyne - Continental IO-520-BB

S/N 578940

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
				TOTALS brought forward from previous page
6-11-2015	Tach 5255.3		Engine Total Time 5510.29	T.S.M.O.H 149.1 Completed a 50 hour inspection. Drained engine oil, removed oil filter and inspected for metal. Installed a new oil filter P/N CH48108-1, and serviced engine with 11 quarts of Phillips X/C 20W-50. Ran engine and checked for leaks. <i>Gregory S Hayes AEP 3202202</i>
7-21-2015	Tach 5306.1		Engine Total Time 5561.09	TSMOH 199.9 Completed a 100 hour inspection in accordance with Beech Bonanza Maintenance Manual. Researched AD'S thru issue 2015-14. Drained engine oil, removed oil filter and inspected for metal. Installed a new CH48108-1 oil filter and serviced engine with 12 qts. of Phillips X/C 20W-50 oil. Compression test results #1 73/80 #2 72/80 #3 70/80 #4 72/80 #5 72/80 #6 75/80. Checked engine to magneto timing 22 B.T.D.C. and installed a new timing gasket P/N MS35769-11. Removed, cleaned, inspected fuel inlet screen and installed a new gasket P/N 649983. Removed, cleaned, inspected, and rotated spark plugs. Removed, cleaned, inspected and re-installed all fuel injectors. Ran engine and check for leaks. I Certify This Engine Has Been Inspected In Accordance With A 100 Hour Inspection And Was Determined To Be In An Airworthy Condition. <i>Merlin R. Kuder AEP 3153062</i>
9/2/2015	Tach 5355.7		Engine T.T 5610.69	T.S.M.O.H. 249.5 Completed a 50 hour inspection in accordance with Kansas State University at Salina 50 hour inspection sheet. Drained engine oil, removed oil filter and inspected for metal. Installed a new CH48108-1 oil filter serviced engine with 11 quarts of Phillips XC 20/50 oil. Installed new Pressure pump P/N AA3216 CW S/N 08ZP22 Next due at tach 5955.7. Ran engine checked for leaks. <i>Phil Pitt AEP 7234319</i>
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Tach + 254.99 = Eng TT

Tach - 5106.2 = TSMOH

IO-520-BB

S/N 578940

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DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
				TOTALS brought forward from previous page

10-14-15 Tach 5406.0 Engine Total Time 5660.99 TSMOH 299.8

Completed a 100 hour inspection in accordance with Beech Bonanza Maintenance Manual. Researched AD'S thru issue 2015-20. Drained engine oil, removed oil filter and inspected for metal. Installed a new CH48108-1 oil filter and serviced engine with 11 qts of Phillips X/C 20W-50 oil. Compression test results #1 68/80, #2 72/80, #3 71/80, #4 71/80, #5 72/80, #6 71/80. Removed, and installed new (12 Ea.) P/N RHB32E spark plugs. Removed, cleaned, inspected, and installed injectors. Checked engine to magneto timing 22 btdc and installed a new gasket P/N MS35769-11. Removed, cleaned, inspected fuel inlet screen and installed a new gasket P/N649983. Complied with engine control rod inspection next due at tach 5706.0 Ran engine and checked for leaks. I Certify This Engine Has Been Inspected In Accordance With A 100 Hour Inspection And Was Determined To Be In An Airworthy Condition.

Gregory S Hayco ATP 3202202

11/18/2015 Tach 5748.53 Engine T.T 5710.39 T.S.M.O.H. 349.2

Completed a 50 hour inspection in accordance with Kansas State University at Salina 50 hour inspection sheet. Drained engine oil, removed oil filter and inspected for metal. Installed a new CH48108-1 oil filter serviced engine with 11 quarts of Phillips XC 20/50 oil. Ran engine checked for leaks.

Paul Allen ATP 3191202

1-8-2016 Tach 5503.7 Engine Total Time 5758.69 TSMOH 397.5

Completed a 100 hour/annual inspection in accordance with Beech F33A Maintenance Manual. Researched AD's thru issue 2015-26. Drained engine oil, removed oil filter, and inspected for metal. Installed new oil filter P/N CH48108-1. Serviced engine with 11 quarts Phillips X/C 20W-50 oil. Removed, cleaned, and installed fuel inlet screen with new gasket P/N 649983. Installed new lower spark plugs 6 each P/N RHB32E. Cleaned, inspected, gapped, and rotated spark plugs. Removed, cleaned and installed fuel injectors. Checked magneto to engine timing 22 degrees B.T.D.C. and installed a new gasket P/N MS35769-11. Compression test: #1 76/80, #2 70/80, #3 75/80, #4 70/80, #5 72/80, #6 77/80. Installed left exhaust manifold P/N 35-950005-37 S/N 157965 overhauled by Aerospace Welding Minneapolis, Inc., see work order number 157965 in back of logbook. Installed left exhaust manifold using the following new parts: gaskets 3 each P/N 652458, nuts 12 each P/N MS20500-428, springs 3 each P/N 186-218. Ran engine and checked for leaks. I Certify This Engine Has Been Inspected In Accordance With A 100 Hour/Annual Inspection And Was Determined To Be In An Airworthy Condition.

Wally Spurr JA 3234314

SUB-TOTALS this page

TOTALS-Carry forward to next page

TACH - 5106.2 = TSMOH
TACH + 264.44 = T.T.

IO-520-BB

S/N 57890

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED - SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
TOTALS brought forward from previous page				
3-1-16	Tach 5552.9		Engine Total Time 5807.8	TSMOH 446.7 Completed a 50 hour inspection in accordance with Kansas State University at Salina 50 hour inspection sheet. Drained engine oil, removed oil filter and inspected for metal. Installed a new CH48108-1 oil filter and serviced engine with 11 quarts of Phillips X/C 20W-50 oil. Ran engine and checked for leaks. <i>Phil A. B...</i> AFB 3191202.
5-5-2016	Tach 5603.4		Engine Total Time 5858.39	TSMOH 497.2 Completed a 100 hour inspection in accordance with Beech F33A Maintenance Manual. Researched AD's thru issue 2016-08. Drained engine oil, removed oil filter, and inspected for metal. Installed new oil filter P/N CH48108-1. Serviced engine with 11 quarts Phillips X/C 20W-50 oil. Removed, cleaned, and installed fuel inlet screen with new gasket P/N 649983. Inspected, cleaned, gapped, and rotated spark plugs. Removed right magneto. Installed new right magneto P/N 6310 S/N 15060297 with gasket P/N 649954. Removed left magneto. Installed new left magneto M/N 6310 S/N 14090535 with gasket P/N 649954. Next due tach 6103.4. Checked magneto to engine timing 22 degrees B.T.D.C. and installed a new gasket P/N MS35769-11. Compression test: #1 66/80, #2 70/80, #3 70/80, #4 69/80, #5 74/80, #6 74/80. Installed new starter adapter gasket P/N 653470. Ran engine and checked for leaks. I Certify This Engine Has Been Inspected In Accordance With A 100 Hour Inspection And Was Determined To Be In An Airworthy Condition. <i>Gregory & Hayes</i> AFB 3202202.
6-29-2016	Tach 5652.9		Engine Total Time 5907.89	TSMOH 546.7 Completed a 50 hour inspection in accordance with Kansas State University at Salina 50 hour inspection sheet. Drained engine oil, removed oil filter and inspected for metal. Installed new oil filter P/N CH48108-1 and serviced engine with 11 quarts of Phillips X/C 20W-50 oil. Ran engine and checked for leaks. <i>D. B. Shell</i> AFB 3191191
Started new logbook				

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DATE: 12-6-16

MODEL: IO-520-BB

TACH: 5673.3

SERIAL: 578940

N857KT

This engine was Repaired this date for the purpose of Prop-Strike Inspection per Service Bulletin 96-11B. Crankshaft magnaflux and ultrasonic inspected, mains and rods machined M.010 new limits, see release form. Connecting rods cleaned and inspected. Crankcase cleaned and inspected with no anomalies found. Camshaft and lifter bodies reinstalled as received. Engine reassembled with new parts installed as follows; 1 each SA641250 Crank Seal; 1 each SA646592A1M10 Main Bearing Set; 1 each 629680M010 transfer collar; 12 Rubbers; 12 each 655961 Rod Bolt; 12 each 654490 Rod Nut; 6 each 536379 Crank Gear Bolts; 4 each 649205 Face Gear Bolts; 2 each 641909 Retainer Plates; 4 each 654587-.44 Cam Gear Bolts; 1 each 646550-A1 Major Gasket Set; 6 each SA630046 Piston Pins. All 6 cylinders cleaned and reinstalled as received. Both Slick magnetos inspected as required. Governor inspected and certified, see release form. All other accessories reinstalled as received. All Gaskets, Safeties and Seals replaced as required. Serviced engine with 12 quarts of Aeroshell 80W and 1 each CH48108 Oil Filter and was ground operated, with no leaks found, and is approved for return to service. For details concerning this Repair, please refer to **WO# 5153** on file at this Repair / Overhaul Facility. Maintenance Release Tags supplied with this Logbook Entry. ----- END -----

J. F. Folchert

Aircraft Cylinders & Engines, Inc.

A&P 3024514


FOR

625 Buss Avenue
Greeley, CO 80631

Red Willow Aviation McCook NE 69001 308-345-2886

N857KT Tach 5673.3 SMOH 611.29 3/6/17

Removed engine due to aircraft tug hitting prop while towing. Sent to ACE for inspection and repairs. (see tag). Reinstalled on aircraft. Replaced starter 646275-1 with overhauled unit. Test run and check for leaks and proper operation. I certify this a/c engine has been inspected IAW a 100hr inspection and was determined to be in an airworthy condition.

Jeff Williams A&P 3024514