

THE **adlog**TM AIRCRAFT
MAINTENANCE
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SYSTEM

**ENGINE
MAINTENANCE
RECORDS**

Custom Airmotive, Inc.
FAA REPAIR STATION #DC2R783K
AIRCRAFT ENGINE SERVICE
2702 N. SHERIDAN, BLDG. B
TULSA, OK 74115
(918) 836-6836
FAX (918) 836-9431



ENGINE MAINTENANCE RECORDS

Log No. 2

Aircraft Registration No. N626CR

Engine Manufacturer Cont

Model IO 520 BA

Serial No. 280708-K

Date installed on aircraft 1/4/2017

Time Between Overhauls (TBO) _____ Hours

If used on multi-engine aircraft:

- Right Left
 Front Rear

Custom Airmotive, Inc.
FAA REPAIR STATION #DC2R763K
2702 N. SHERIDAN PH. 918-836-6836
Tulsa, Okla. 74115

WARRANTY:

All engines rebuilt by Custom Airmotive after October 1, 2015, are guaranteed to be free from defects in material and workmanship, under normal use and service for six months or 240 hours; whichever occurs first. An additional prorated warranty will apply to parts only to manufacturers published T.B.O. Accessories will be guaranteed by the vendor. All parts and labor to be approved by Custom Airmotive prior to commencement of work. Cracked cylinders and crankcases excluded from all warranties unless it can be determined that they are a direct result of improper assembly. Loss of revenue or use of aircraft claims will not be allowed. Proration to be based on hours logged, or 40 hours per month; whichever is greater.



(All applicable information must be filled in)

AEROTECH PUBLICATIONS INC.

P.O. Box 1359 / Southold, NY 11971-0965
(631) 765-9375
1-800-235-6444
FAX: (631) 765-9359

ENGINE MAJOR OVERHAULED TO MANUFACTURERS SPECIFICATIONS

DATE

TT 1756.41 TSMOH 2.1 (test run time only)
 MODEL IO-520-BA (14) S/N 280708-R

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 25167
 Dated 15 NOV 2016 Signed Mark Lutting for

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

Fuel system & magnetos were also overhauled (see maint. release). Ignition harness, spark plugs and oil filter are new. This engine is equipped with New Superior Millennium-steel bore-P/N SA52006-A20P cylinders.

- Model IO-520-BA S/N 280708-R WO# 25167 Total Time _____
 A.D. # Method of compliance
 77-13-22 P/C/W BY USE OF HEAVY/BUMPED CASE (CERT. @ DIVCO).
 79-05-09 P/C/W; HAD ACCEPTABLE RELIEF VALVE COMPONENTS.
 80-01-04 N/A TO THESE NEW SAP CYLINDERS.
 81-24-06 C/W BY FUEL SYSTEM O-H @ CRS#HK2R875K.
 86-13-04 N/A TO THESE NEW SAP CYLINDERS.
 87-14-02 C/W; USED PARTS AS PER SB02-02.
 88-03-06 C/W BY USE OF AA48108-2 FILTER.
 88-17-03 C/W; USED PARTS AS PER SB02-02.
 91-19-03 C/W BY USE OF AA48108-2 FILTER.
 93-08-17 N/A PER MODEL.
 93-10-02 N/A TO THESE NEW SAP CYLINDERS.
 93-16-15 C/W; USED P/N 653359 COUPLING.
 97-26-17 C/W BY ULTRASONIC INSP. @ O-H (VAR TYPE).
 98-01-08 N/A; HAS CMI ROCKER ARMS.
 98-17-11 N/A TO THIS CRANKSHAFT (NOT SENT TO NELSON).
 99-19-01 C/W BY ULTRASONIC INSP. @ O-H (VAR TYPE) S/N T635.
 00-23-21 N/A TO THIS SERVICEABLE VAR SHAFT S/N T635.
 04-08-10 N/A TO THESE NEW SAP CYLINDERS.
 07-04-19 N/A TO THESE NEW SAP CYLINDERS PER SB#B06-1E.
 09-19-07 N/A TO THESE NEW SAP CYLINDERS PER MSB#09-1B.
 10-11-04 N/A; AFFECTED P/N LIFTERS NOT INSTALLED.
 12-03-06 N/A; AFFECTED PARTS NOT INSTALLED.
 14-05-29 N/A TO THESE NEW SAP CYLINDERS PER SB#98-9C & 03-3.
 16-16-12 N/A TO THESE NEW SAP CYLINDERS.

Signed Mark Lutting for CRS# DC2R763K on 15 NOV 2016

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
				N# <u>626CR</u> Date <u>1/4/2017</u> Tach <u>5239.41</u> SMOH <u>2.1</u> ETT <u>1758.51</u> Completed 100 hour inspection for annual this date. Oil serviced with <u>10 qt. of AS W100</u> oil Filter <u>CH48109-1</u> . This engine (IO-520-BA (14) s/n 280708-R) reinstalled on N626CR this date. Ground run and leak checked, no defects found.
				CW the following AD's. AD's checked thru. <u>2016-26</u> No engine AD's due at this time.
				I certify that this engine has been inspected in accordance with a 100 hour inspection and was determined to be in an airworthy condition. John Hooker 3026093 IA <u>[Signature]</u>
<u>3/30/2017</u>		<u>5242.91</u>		<u>This Engine Removed this date due to gear up landing & Propeller Strike.</u> <u>John Hooker 3026093 IA</u>
				N626CR 8/4/2017 tach5242.91 Engine reinstalled in this aircraft after inspection and repair by Custom Airmotive see work order # 25290 for maintenance release. New propeller Hartzell PHC-C3YF-1 / F8068 s/n QG1300B installed. Propeller governor OH by Aircraft Accessories. New gaskets and hardware as necessary. Run engine and leak checked all operations normal. John Hooker 3062093 A&P <u>[Signature]</u>
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09-03
 Engine
 Propeller
 A.D. / S.I.

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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N# 626CR Date 5/01/2018 Tach/ Hobbs 5252.54 SMOH 15.23 ETT 1771.64

Completed 100 hour inspection for annual this date. Cleaned, gaped and tested plugs. Checked compressions 1. 72 /80 2. 73 /80 3. 74 /80 4. 73 /80 5. 72 / 80 6. 74/80. Changed oil and filter CH48109-1 serviced with 11 qt. of AS W 100 oil.

CW the following AD's. AD's checked thru. 2018-09
No engine AD's due at this time.

I certify that this engine has been inspected in accordance with a 100 hour inspection and was determined to be in an airworthy condition.

John Hooker 3026093 IA 

9-24-18		5281	changed oil + Filter CH 48109-1 serviced with 11 QTS of AS W100 plus oil. Ran + leak checked good. Adam Seb
		5331	changed oil + F. Her CH48109-1. serviced with 11 QTS of ASW100 plus oil. Ran + leak checked good. Adam Seb
5-11-19		5372	Changed oil + F: Her CH48109-1. Serviced with 11 QTS of ASW100 plus oil. Ran + leak checked good. Adam Seb

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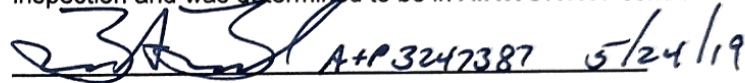
Beard's Aircraft Services, LLC
9852 Robinson Road
Bell City, LA 70630

5/24/19 Reg.# N626CR Beechcraft A36
TELEDYNE CONTINENTAL MOTORS

Engine Total Time 1907.64 SMOH: 136.0 IO-520-BA Eng. Serial # 280708-K

Completed 100hr inspection this date in accordance with 14 CFR Part 43 Appendix D, and IO-520 inspection checklist. Cleaned, inspected, and checked gap on the spark plugs. Tested ignition cables, checked magneto timing (22° BTC L Mag) (22° BTC R Mag). Cylinder differential compression (IAW TCM SB03-3) test as follows; #1 75/80; #2 73/80; #3 72/80; #4 73/80; #5 76/80; #6 76/80. All leakage is dynamic. Borescope inspection revealed no apparent defects. Replaced the air filter with a new BA7112 element. Tightened the AC belt. All applicable AD's are in compliance. Refer to AD compliance report in aircraft record for complete status of applicable AD's.

I CERTIFY this ENGINE has been inspected in accordance with a 100 HOUR inspection and was determined to be in AIRWORTHY condition.


Bruce A. Beard - A&P 3247387 5/24/19

Bruce A. Beard, Owner-A&P/IA Phone/Fax: 337-598-4773, Mobile: 337-515-5643 Email: brucebeard@wb4me.com



8-1-19		5422	changed oil + filter CH 48109-1. Serviced with 11 QTS of AS W15W50. Ran + leak checked good. Adam Seb
11-15-19		5472	changed oil + filter CH 48109-1. Serviced with 11 QTS of AS W15W50. Ran + leak checked good. Adam Seb
1-5-2000		5516	changed oil + filter CH48109-1. Serviced with 11 QTS of AS W15W50. Ran + leak checked good. Adam Seb
5-1-2020		5568	changed oil + filter CH48109-1. Serviced with 11 QTS of AS W15W50. Ran + leak checked good. Adam Seb

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Beard's Aircraft Services, LLC
9852 Robinson Road
Bell City, LA 70630

6/2/2020 Reg.# N626CR Beechcraft A36
TELEDYNE CONTINENTAL MOTORS

Engine Total Time 2121.27 SMOH: 349.63 IO-520-BA Eng. Serial # 280708-K

Completed 100hr inspection this date in accordance with 14 CFR Part 43 Appendix D, and IO-520 inspection checklist. Cleaned, inspected, and checked gap on the spark plugs. Tested ignition cables, checked magneto timing (22° BTC L Mag) (22° BTC R Mag). Cylinder differential compression (IAW TCM SB03-3) test as follows; #1 71/80; #2 68/80; #3 69/80; #4 70/80; #5 71/80; #6 67/80. All leakage is dynamic. Borescope inspection revealed no apparent defects. Replaced the air filter with a new Donaldson P137627 element. All applicable AD's are in compliance. Refer to AD compliance report in aircraft record for complete status of applicable AD's.

I CERTIFY this ENGINE has been inspected in accordance with a 100 HOUR inspection and was determined to be in AIRWORTHY condition.

BAS A&P 3247387 6/2/2020

Bruce A. Beard - A&P 3247387 6/2/2020

Bruce A. Beard, Owner-A&P/IA Phone/Fax: 337-598-4773, Mobile: 337-515-5643 Email: brucebeard@wb4me.com



11-30-20	5611	Changed oil & Filter CH-48109-1. Serviced with Aeroshell 15-50 11 Quarts. Run & leak checked good. Adh Sh 3813473
6-6-21	5664	Changed oil & Filter CH-48109-1 Serviced with 11 Quarts of Aeroshell 15-50 Run & leak checked good. Adh Sh 3813473

Beard's Aircraft Services, LLC
9852 Robinson Road
Bell City, LA 70630

7/15/2021 Reg.# N626CR Beechcraft A36
TELEDYNE CONTINENTAL MOTORS

Engine Total Time 2229.33 SMOH: 457.69 IO-520-BA Eng. Serial # 280708-K

Completed 100hr inspection this date in accordance with 14 CFR Part 43 Appendix D, and IO-520 inspection checklist. Cleaned, inspected, and checked gap on the spark plugs. Removed the right magneto from service. Installed a Surefly electronic ignition source model SIM6C, s/n 6C-1920010 and Slick ignition harness In Accordance With STC SE04349CH as listed in AML No. SA04349CH. Installation performed In Accordance With Installation Instructions Document No. SF1003, Revision C, dated 03/30/2020. Magneto set and programmed to run in the variable timing mode. For Instructions for Continued Airworthiness, refer to Document No. SF1005, Revision A, dated 03/30/2020 in the aircraft record. Tested ignition cables, checked magneto timing (22° BTC L Mag) (0° BTC R Mag). Cylinder differential compression (IAW TCM SB03-3) test as follows; #1 62/80; #2 60/80; #3 74/80; #4 72/80; #5 78/80; #6 60/80. All leakage is dynamic. Borescope inspection revealed no apparent defects. Replaced the air filter with a new Donaldson P137627 element. All applicable AD's are in compliance. Refer to AD compliance report in aircraft record for complete status of applicable AD's.

I CERTIFY this ENGINE has been inspected in accordance with a 100 HOUR inspection and was determined to be in AIRWORTHY condition.

BAS A&P 3247387 7/15/2021

Bruce A. Beard - A&P 3247387 7/15/2021

Bruce A. Beard, Owner A&P/IA

Phone/Fax: 337-598-4773, Mobile: 337-515-5643 Email: brucebeard@wb4me.com



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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Beard's Aircraft Services, LLC
9852 Robinson Road
Bell City, LA 70630

8/1/2022 Reg.# N626CR Beechcraft A36
TELEDYNE CONTINENTAL MOTORS

Engine Total Time 2331.62 SMOH: 559.98 IO-520-BA Eng. Serial # 280708-K

Completed 100hr inspection this date in accordance with 14 CFR Part 43 Appendix D, and IO-520 inspection checklist. Cleaned, inspected, and checked gap on the spark plugs. Removed the LH magneto from service. Installed an overhauled s/n H02HA176R magneto. This magneto overhauled IAW w/o # 088944, dated 7/21/22, Quality Aircraft Accessories, CRS# QYIR334Y. Tested ignition cables, checked magneto timing (22° BTC L Mag) (0° BTC R Mag). Cylinder differential compression (IAW TCM SB03-3) test as follows; #1 62/80; #2 58/80; #3 72/80; #4 72/80; #5 74/80; #6 62/80. All leakage is dynamic. Borescope inspection revealed no apparent defects. Replaced the air filter with a new Donaldson P137627 element. All applicable AD's are in compliance. Refer to AD compliance report in aircraft record for complete status of applicable AD's.

I CERTIFY this ENGINE has been inspected in accordance with a 100 HOUR inspection and was determined to be in AIRWORTHY condition.

BAS A&P 3247387 8/1/22

Bruce A. Beard - A&P 3247387 8/1/2022

Bruce A. Beard, Owner-A&P/IA

Phone/Fax: 337-598-4773, Mobile: 337-515-5643 Email: brucebeard@wb4me.com



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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Beard's Aircraft Services, LLC
9852 Robinson Road
Bell City, LA 70630

10/13/2022 Reg.# N626CR Beechcraft A36
TELEDYNE CONTINENTAL MOTORS

Engine Total Time 2332.62 SMOH: 560.98 IO-520-BA Eng. Serial # 280708-K

Owner reports a failed left magneto. Removed the magneto and sent to Quality Aircraft Accessories for warranty inspection. Inspection found the cam gear turned which offset the internal timing by some 40 degrees. Magneto repaired and sent back for install. Installed magneto and set timing to 22° BTC. Owner also reports a sudden drop in fuel flow from 27.5 GPH to 23 GPH at full power setting. Removed the fuel controller/pump, installed an overhauled 646212-2 fuel pump after it was sent back to QAA to swap the mounting adapters to the proper size. Installed the overhauled pump, test ran the engine. Magneto functions normally. Fuel flow at full static RPM was 26.4 GPH. All systems are functioning normally.

In Accordance With 14 CFR Part 43.9, the aircraft is returned to service.

[Signature]
Bruce A. Beard - A&P 3247387 10/13/2022

Bruce A. Beard, Owner A&P/IA Phone/Fax: 337-598-4773, Mobile: 337-515-5643 Email: brucebeard@wb4me.com



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14-03

07-03

Engine

Propeller

A.D. / S.I.