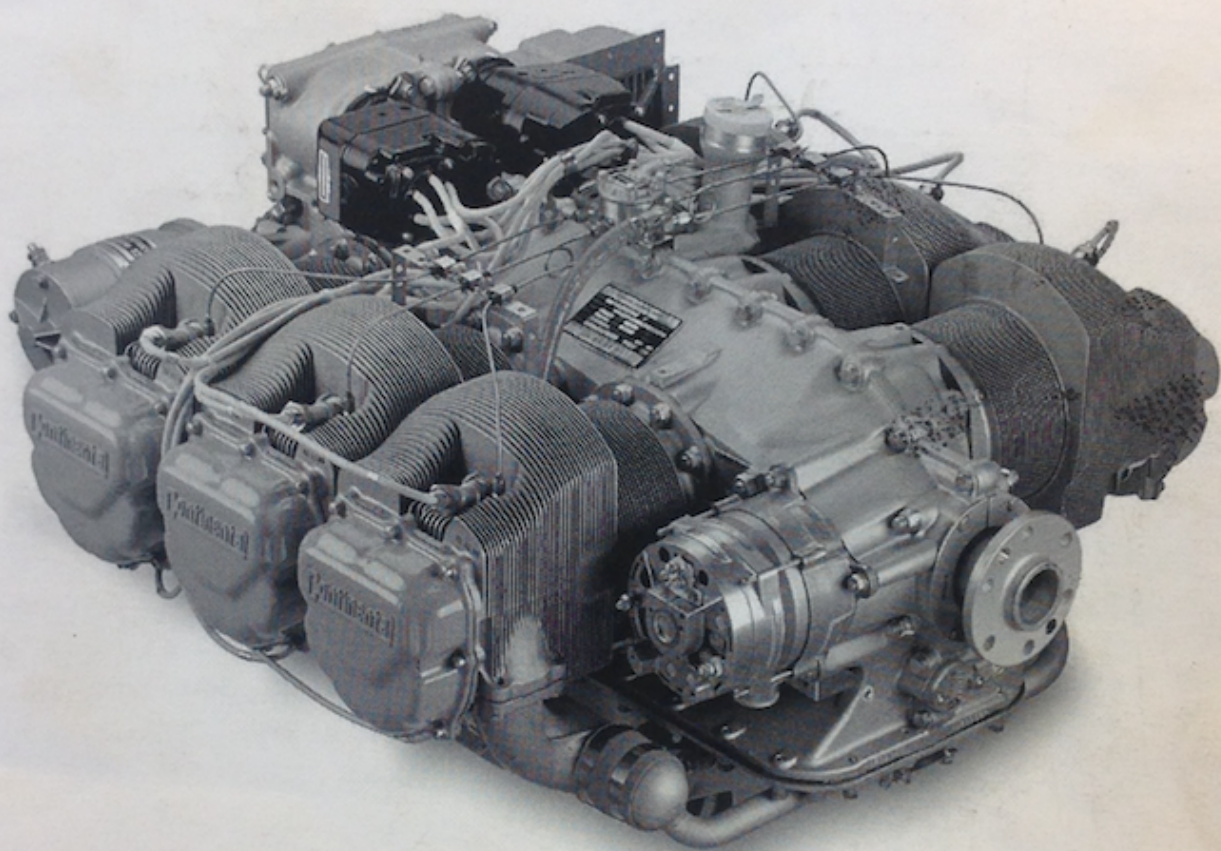


ENGINE LOG BOOK



Teledyne Continental Motors, Inc.

Service Information

Service Bulletins and Technical Publications are available on a direct mail basis from the factory. Orders must be prepaid. Send for order form or call 334-438-3411, publications department, for information.

Engine Returns

All returned engines are to be shipped with this log book Directly to:

Teledyne Continental Motors
Abbeville Industrial Park
Suite 159
Abbeville, AL 36310

**USE ONLY FUEL CONFORMING TO ASTM D910
USE OF AUTOMOTIVE GAS IS NOT APPROVED.**



This engine model **TS10520UB2F**, Serial No. **527485** was manufactured on **02/10/2003** by Teledyne Continental Motors in accordance with approved design data and the applicable requirements of Part 21 of the Federal Aviation Regulation. The approved design data for this engine incorporates all changes required by applicable Airworthiness Directives and Teledyne Continental Motors Service Bulletins.


TELEDYNE CONTINENTAL MOTORS
A TELEDYNE TECHNOLOGIES COMPANY
PRODUCTION CERTIFICATE NO. 508

Date	Total Time		Time Since Last Overhaul		Engine Service and Maintenance Record Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
	Hrs.	Min.	Hrs.	Min.	
2-20-03	00	0	00	0	

→ **AERO JACKSON** →
JACKSON, MISSISSIPPI
 N38047 ENGINE LOGBOOK ENTRY 2-20-03 TACH TIME 3522.69 ENGINE TOTAL TIME IN SERVICE 000.0

This engine installed on Beechcraft N38047, Serial Number EA-176. Installed reusing engine mounts, hoses, vacuum pump, and propeller governor. Engine serviced with 12qts. Aeroshell 100 Mineral Oil. Overhauled propeller installed and torqued to specs. Engine ground run, operational check, OK, no leaks noted.

David Townes Cox A&P 2679578

Dail Za Coy

→ **AERO JACKSON** →
JACKSON, MISSISSIPPI
 N38047 ENGINE LOGBOOK ENTRY 2-27-03 TACH TIME 3523.39
 ENGINE TOTAL TIME 00.7

Checked compression: (1)76/80 (2)75/80 (3)76/80 (4)75/80 (5)77/80 (6)78/80. New oil filter installed at installation. Engine oil was serviced at installation with Aeroshell 100 Mineral Oil. Replaced Brackett Air Filter Element. Spark plugs installed new at installation. Engine washed and ground run, operational check OK, no leaks noted.

I certify that this ENGINE has been inspected in accordance with an ANNUAL INSPECTION and was determined to be in airworthy condition.

David Townes Cox IA 2679578

Dail Za Coy

4/11/03

Removed #4 fuel injection nozzle cleaned and checked out. Reinstalled nozzle. Replaced #1 cylinder EGT probe with new. Engine ground ran ops check good.

Air Aviation Inc.
 CRS #CF2R740R

wg # 25427
Johnny Henders

Raytheon Aircraft Services
 1115 Paul Wilkins Road San Antonio, Texas 78216
 Phone (210) 824-7503 Fax (210) 820-3218

MODEL: BEECH A36TC
 DATE: 6-26-03
 TACH: 3544.7

S/N: EA-176
 REG: N38047
 W.O.: 25-04-27093

CHANGED OIL AND FILTER. CUT OPEN OLD FILTER AND INSPECTED CONTENTS. NO METAL FOUND.
 NEW FILTER P/N CH48109. SERVICED WITH AEROSHELL 50 MINERAL OIL. GROUND RUN ENGINE.
 LEAK AND OPERATION CHECKED GOOD.

THE WORK PERFORMED ON THIS AIRCRAFT HAS BEEN INSPECTED IN ACCORDANCE WITH CURRENT MAINTENANCE RULES OF THE FEDERAL AVIATION REGULATIONS AND IS APPROVED FOR RETURN TO SERVICE.

RAYTHEON AIRCRAFT SERVICES
 SAN ANTONIO, TEXAS
 XA14605K

Lee Dan Rogers
 LEE DAN ROGERS.

Engine Service and Maintenance Record

Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins

Date	Total Time		Time Since Last Overhaul	
	Hrs.	Min.	Hrs.	Min.
Brought Forward				
4-28-04	137	05	36	59
RENEW			74	
MANUAL INSPECTION				
FILTER CHECK				
COMPRESSION				
REPLACED AIR FILTER				
CRACK/LEAK CHECK				

CHW 100HR INSPECTION USING
 BEECH BONANZA SERIES MAINT.
 FORM. CHANGE OIL SERVICE W/100W
 INSPECT FILTER - NO DEFECTS.
 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.

I certify that this aircraft/engine
 has been inspected in accordance
 with an annual inspection
 and found to be in airworthy con-
 dition on this date. 4-28-04

[Signature] A.P. 188508967 IA

The subject aircraft was involved in an incident / accident
 at Huntsville AL on 11/19/04 rendering it
 a total loss as not repairable within it's insured value For
 further information refer to file H04229640
 Signed [Signature] Date 4/5/05
 Phoenix Aviation Managers, Inc.
 PO Box 440757
 Kennesaw, GA 30144

1-16-2006

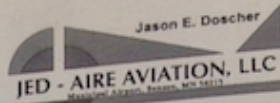
ASSEMBLED ENGINE AFTER INSPECTION BY BOLDUC AUL WITH NEW GASKET SET SA646550-A1, CRANKSHAFT REPLACED WITH #.010, NEW PARTS, 12-655961 ROD BOLTS, 12-654490 ROD NUTS, 12-SAB42398 BEARINGS, 1-SAB6592-A1 M10 MAIN SET, 6-464277R 6-678488R WIFTERS, 1-RECONDITIONED CAM. NO CYL WORK. BOTTOM END OVERHAUL NOT RUN OR PRE OILED

[Signature] 4/28/04

Engine Service and Maintenance Record

Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins

| Date | Total Time | | Time Since Last Overhaul | | |
|-------------------|------------|------|--------------------------|------|---|
| | Hrs. | Min. | Hrs. | Min. | |
| Brought Forward → | | | | | |
| 3/24/2007 | 3775 | 55 | | | Tech - install engine back in N28047
EA-176 - check all controls - Run up Rotax factory - this
engine has been inspected in accordance with an Annual
Inspection and was determined to be in airworthy
condition - end - <u>Ronald A</u> 474723603AP/IA |
| 4/5/2008 | 3808 | 60 | | | Total
286 Time Since New
Compression check #1 $\frac{64}{80}$ #2 $\frac{64}{80}$
#3 $\frac{70}{80}$ #4 $\frac{64}{80}$ #5 $\frac{74}{80}$ #6 $\frac{70}{80}$
Check & lube engine controls Inspect
engine thru Beechcraft Proforma checklist - This engine has been
inspected in accordance with an Annual Inspection and was
determined to be in airworthy condition - end - <u>Ronald A</u>
474723603AP/IA |
| 5/30/2009 | 2899 | 5 | | | Total
5819.14 Tech
Complete work/Annual Inspection - check & lube
engine controls - compression check #1 $\frac{60}{80}$ #2 $\frac{64}{80}$
#3 $\frac{64}{80}$ #4 $\frac{64}{80}$ #5 $\frac{64}{80}$ #6 $\frac{64}{80}$ - complete inspection
per Beechcraft Proforma checklist - this engine has
been inspected in accordance with an Annual
inspection and was determined to be in airworthy
condition - end - <u>Ronald A</u>
474723603AP/IA |
| 5/8/2010 | 3829 | 23 | | | Total
Complete work/Annual Inspection per Beechcraft inspection
checklist - AD 2009-16-03 NA per Continental cylinder -
AD 2009-19-07 NA per Continental cylinder
AD 2009-24-52 NA per date of manufacture -
compression check #1 $\frac{55}{80}$ #2 $\frac{62}{80}$ #3 $\frac{60}{80}$ #4 $\frac{60}{80}$ #5 $\frac{60}{80}$
#6 $\frac{60}{80}$ - This engine has been inspected in accordance
with an Annual Inspection and was determined to be in
airworthy condition - end - <u>Ronald A</u>
474723603AP/IA |



June 23, 2011 Beechcraft N146TA S/N EA-176 Tach 3840.07
 100 hr Engine inspection, compression as follows #1 58 #2 62 #3 64 #4 65 #5 68 #6 64/80. 12 Qts Phillips XC. New AA48108 filter.
 No metal in oil. Serviced spark plugs, Mag timing checked as per data plate. Inspected alt. and starter. Exhaust system inspected.
 Engine controls checked stop to stop and lubed. Engine washed down, Engine run up and set up completed as per Beechcraft Service
 manual and TCM SID 97-3E. I hereby certify that this Engine has been inspected as per existing FAR in accordance with a 100hr
 inspection and found to be in an airworthy condition.
 Tach 3840.07 ATT 3840.07 ETT 317.78 PTSMOH 65.07

Jason E Doscher A&P3271591

Jason E. Doscher

10/20/2011 T-3851.44

Removed #1 & 2 cylinders for repair due to low compression. #1 cylinder was repaired and #2 as replaced with a serviceable cylinder assembly see yellow tags from Sal's Aircraft Cylinders for description of work performed. Installed both cylinders using new gaskets, IAW Continental maintenance manual. Replaced oil filler tube with repaired tube, PN-649406-3-UP. Ran engine and checked for proper operation of all affected systems. Checked engine for any leaks, none noted at this time. This engine is returned to service. Charles Selander, IA465619265

Charles Selander

Moore Aviation

606 FM 3003 Graham, TX 76450

6-7-2012

Engine Log Book Entry Date: 6-7-12 Reg: N146TA Continental TSIO-520-UB2F S/N 527485 Tach Time: 3912.6 TSN: 389.91

Completed annual inspection this date per FAR 43 app. D. Complied with all applicable AD's; see AD compliance record with A/C logs. Removed and replaced spark plugs, checked magneto timing, serviced induction air filter. Ran engine and check compression #1 73/80 #2 78/80 #3 76/80 #4 77/80 #5 78/80 #6 77/80.

Changed oil and filter, cut open filter and inspected for adverse metal, none found. Serviced engine with 11 quarts Phillips 20/50XC. Adjusted prop rod to contact stop.

I certify that this engine has been inspected IAW and Annual inspection and was found to be in an airworthy condition.

Brian Moore

Brian Moore A&P IA 3157316

10-22-12

Moore Aviation, LLC

606 FM 3003 Graham, TX 76450

oil change

Engine Log Book Entry Date: 10-22-12 Reg: N146TA Continental TSIO-520-UB Tach: 3956.6
 Changed oil and filter, cut open filter and inspected for adverse metal, none found.

3956.6

Brian Moore

Brian Moore A&P IA 3157316

| Date | Total Time | | Time Since Last Overhaul | | Engine Service and Maintenance Record
Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins |
|------|------------|------|--------------------------|------|---|
| | Hrs. | Min. | Hrs. | Min. | |

Brought Forward →

11-16-12 39853
 Removed prop governor and sent to Ryan Propeller Service for inspection and repair. Reinstalled after receipt, ground run and leak/function tested. Checks good. *[Signature]* A&P 3157316

Moore Aviation, LLC
 4515 Old Jacksboro Hwy. Wichita Falls, Tx 76302
 Engine Log Book Entry Date: 6-27-13 Reg: N146TA Continental TSIO-520-UB2F
 S/N 527485 Tach Time: 4021.9 TSN: 499.2
 Completed annual inspection this date per FAR 43 app. D. Checked for applicable AD's, none due at this time. Cleaned and gapped spark plugs, checked magneto timing, serviced induction air filter. Ran engine and check compression #1 78/80 #2 77/80 #3 75/80 #4 75/80 #5 78/80 #6 76/80.
 I certify that this engine has been inspected IAW and Annual inspection and was found to be in an airworthy condition.
[Signature] Brian Moore A&P IA 3157316

07/12/2013 4032.82
 Removed + Replaced vacuum pump. Ops checked good, leak checked - No leaks found. 8130 Tag filed with aircraft logs.
[Signature] Stephen Bowers A&P 3622493

Moore Aviation, LLC
 4515 Old Jacksboro Hwy. Wichita Falls, Tx 76302
 Engine Log Book Entry Date: 7/25/14 Reg: N146TA Continental TSIO-520-UB2F
 S/N: 527485 Tach Time: 4132.44 TSN: 609.74
 Completed annual inspection this date per 43 app. D. Checked for applicable AD's, see AD compliance list with aircraft logs. Cylinder differential test: (1)74/80 (2) 74/80 (3) 72/80 (4) 76/80 (5) 76/80 (6) 73/80, no fault found. Inspected turbo blades, pressure tested exhaust. No fault found.
 I certify that this engine has been inspected IAW an annual inspection and was found to be in an airworthy condition.
[Signature] Brian Moore A&P 3157316 IA

25/sep/14 Tach 4147.50
 change oil & filter. Neal AA48108-2 oil filter and add 10 qts XC 20/50. Run to leak check. CAT open filter, no metal found.
[Signature] A&P 3038723

Engine Service and Maintenance Record

Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins

| Date | Total Time | | Time Since Last Overhaul | |
|------|------------|------|--------------------------|------|
| | Hrs. | Min. | Hrs. | Min. |

Brought Forward →

Moore Aviation, LLC

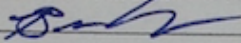
4515 Old Jacksboro Hwy. Wichita Falls, TX 76302

Engine Log Book Entry Date: 10/15/15 Reg: N146TA Continental TSIO-520-UB2F

S/N: 527485 Tach Time: 4205.22 TSN: 682.52

Completed annual inspection this date per 43 app. D. Checked for applicable AD's, see AD compliance list with aircraft logs. Cylinder differential test: (1)76/80 (2) 78/80 (3) 76/80 (4) 68/80 (5) 78/80 (6) 64/80. Removed #4 & #6 cylinder, inspected and found exhaust seats on both cylinders pitted excessively. Ground seats and lapped valves. Compression on cylinders post repair (4) 78/80 (6) 77/80. Ground run & leak checks good. Changed oil & filter, serviced with 12 quarts Phillips 20/50 XC. Cut open oil filter and inspected for adverse metal, none found.

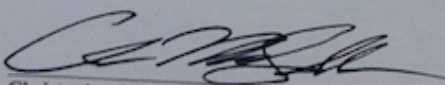
I certify that this engine has been inspected IAW an annual inspection and was found to be in an airworthy condition.



Brian Moore A&P 3157316 IA

| Date | Aircraft Make | Aircraft Model |
|-------------------------|-----------------------|-------------------|
| 1 November 2016 | Beechcraft | A36TA |
| Aircraft Serial Number | Aircraft Registration | Tach Time / AFTT |
| EA-176 | N146TA | 4227.66 / 4227.66 |
| Engine Model | Engine Serial Number | TSMO |
| IO-520-UB2F Continental | 527485 | 704.96 |

Completed 100 hour/Annual inspection IAW FAR 43 Appendix D. Compression Check (cold) #1= 78/80 #2=78/80 #3=76/80 #4=78/80 #5=79/80 #6=77/80. Removed spark plugs, cleaned and check gaps, rotated top to bottom and reinstalled. Cleaned engine and lubed controls. Drained engine oil and removed engine oil filter, cut open filter and inspected for adverse metal content non found. Serviced engine with 11 qt. Aeroshell W100 and installed new oil filter. Ground ran and ops check, all checks good. Borescope inspected cylinders, no defected found. Complied with AD 2016-16-12 affected ECI cylinders are not installed on engine. All Airworthiness Directives checked. (See AD compliance checklist dated November 1, 2016) I certify that this engine has been inspected in accordance with a 100 Hr/Annual inspection and was determined to be in airworthy condition.



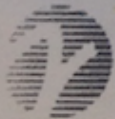
Christopher McSpadden, IA3313982





Teledyne Continental Motors, Inc.

P.O. Box 90 Mobile AL 36601 • 334-438-3411



GAMA

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General Aviation Manufacturing Association

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