

Right

THE **adlog**TM AIRCRAFT
MAINTENANCE
RECORDKEEPING
SYSTEM

**ENGINE
MAINTENANCE
RECORDS**

4910 520 B13

287618-R

Right Engine

ENGINE MAINTENANCE RECORDS

Log No. 1

Aircraft Registration No. N4186T

Engine Manufacturer Continental

Model TS1D 520BB18B

Serial No. 287618-R

Date installed on aircraft 6-1-00

Time Between Overhauls (TBO) 1400 Hours

If used on multi-engine aircraft:

☒ Right
☐ Front

☐ Left

☒ ~~Front~~



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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

This engine model TSIO520BB18B, Serial No. 287618-R, was rebuilt/zero timed on 03/22/99 by Teledyne Continental Motors in accordance with an FAA approved Quality Control System, using FAA approved Engineering design data and the applicable requirements of FAR Part 21 of the Federal Aviation Regulations. The approved design data for this engine incorporated the following Service Bulletins and Airworthiness Directives.

SB	AD	REMARKS	SB	AD	REMARKS
M79-2	79-05-09	REPLACED WITH NEW PART	M92-6	N/A	ROCKER SHAFT RETENTION IMPROVEMENT
M80-26	81-24-06	N/A BY PART SERIAL NUMBER	M92-14	N/A	VISUAL INSPECTION FOR DATE
M86-7	86-13-04	REPLACE WITH NEW PART	M93-9	93-16-15	PROPER SHAFT & COUPLING INSTALLED
M87-5	97-26-17	CRANKSHAFT ULTRASONIC INSPECTION	MSB93-12	93-10-02	N/A SERIAL NUMBER NOT APPLICABLE
M88-4	88-03-06	REPLACED WITH NEW PARTS	CSB94-1	94-06-09	REPLACED CAPACITOR AS APPLICABLE
M90-6	89-24-01	REPLACED WITH NEW PARTS	CSB94-15	N/A	CRANKCASE STUD INSPECTION
M90-21	N/A	ULTRASONIC INSPECTION OF BARREL	MSB95-6	N/A	FUEL SYSTEMS
M91-6	N/A	ULTRASONIC INSPECTION OF BARREL	MSB95-6	N/A	FUEL SYSTEMS
M91-7	N/A	ULTRASONIC INSPECTION OF BARREL	MSB96-10	N/A	CRANKSHAFT ULTRASONIC INSPECTION
N/A	91-19-03	OIL FILTER CHANGE	MSB94-8A	N/A	MAGNETO TO ENGINE TIMING

Records reflecting this rebuilding are on file at Teledyne Continental Motors, P.O. Box 90, Mobile, Alabama, 36601.

Sheet 1 of 2
Continued on back cover

TELEDYNE CONTINENTAL MOTORS
PRODUCTION CERTIFICATE NO. 508

Earl Brown

This engine model TSIO520BB18B, Serial No. 287618-R, was rebuilt/zero timed on 03/22/99 by Teledyne Continental Motors in accordance with an FAA approved Quality Control System, using FAA approved Engineering design data and the applicable requirements of FAR Part 21 of the Federal Aviation Regulations. The approved design data for this engine incorporated the following Service Bulletins and Airworthiness Directives.

SB	AD	REMARKS	SB	AD	REMARKS
CSB9710A	97-21-02	PISTON PIN PLUG WEAR			

Records reflecting this rebuilding are on file at Teledyne Continental Motors, P.O. Box 90, Mobile, Alabama, 36601.

Sheet 2 of 2
Continued from front cover

TELEDYNE CONTINENTAL MOTORS
PRODUCTION CERTIFICATE NO. 508

Earl D. Brown

SUB-TOTALS this page

TOTALS—Carry forward to next page

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
				ENG. MODEL <u>TSIO520BB</u> ENG. S/N <u>287618R</u>
				Teledyne Continental Motors has examined the core samples removed from crankshaft serial number <u>C089904N</u> and has determined the metallurgical structure of this crankshaft is acceptable and may be continued in service.
				Complete all sections of TCM MSB 00-5, or later revision, before returning the aircraft and engine to service.
				<u>Bill Black</u> TELEDYNE CONTINENTAL MOTORS MMF 322-10
6-1-00	0	0	1107.8	Above engine installed on N4186T, right side. David Lipton A+P45056943 11A
6-1-00	0	0	1107.8	Annual Inspection performed on Engines. Run up and leak checked, no found. I certify that this engine has been inspected I-AW. on Annual Inspection and found to be Airworthy at this time. <u>David Lipton A+P45056943</u>
6-1-00	0	0	1107.8	Installed Reiff oil pan heater F44/PAT #PQ25850E in accordance with instructions. This installation is a minor alteration per FAR 43 Appendix B No Form 337 required. Work done by Robert Schuch, and inspected by <u>David Lipton A+P45056943</u>
	0	0	1107.8	SUB-TOTALS this page
	0	0	1107.8	TOTALS—Carry forward to next page

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
	23.7	23.7	1107.8	TOTALS brought forward from previous page
8/15/00	23.7	23.7	1131.5	Changed oil & filter refilled with Acoshell thru oil; 50wt, 12 qts. Test run up checked for leaks, none found. Robot Link ^{over-plot} 33258938
12/28/00	50.1	50.1	1159.9	Changed oil & filter. Refilled with 12 qts Acoshell 15-50. Checked filter for debris and metal, none found. Checked exhaust system integrity; - good. Cleared air & fuel filters. Torqued exhaust and valve covers. Cleared and lubed plugs. Robot Link over-plot 3325935
8-5-01	88.4	88.4	1196.2	Annual Inspection completed, this date. Compressors checked #1-72, #2-74, #3-76, #4-74, #5-72, #6-74. Cleared and gapped plugs. Checked mag timing. Checked engine and leak checked. Certify that this engine has been inspected IAW an Annual Inspection and found to be airworthy at this time. David Lipp 1A40588943
	64.7	64.7	64.7	SUB-TOTALS this page
	88.4	88.4	1196.2	TOTALS—Carry forward to next page

[illegible]

Page No. <u>4</u>				DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK	
DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	TOTALS brought forward from previous page	
	97.8	97.8	1205.6		
6-1-03	126.2	126.2	1234.0	Annual Inspection completed, this date. Check all compression and found to be above 70/80. Checked mag timing. I certify that this engine has been inspected IAW an Annual Inspection and found to be airworthy at this time.	
				David L. 1114851894	
8/15/03	126.2	126.2	1234.0	Preserved engine for long term storage per manufacturer's guide. Removed lower spark plugs and installed caps. Fogged cylinders with corrosion x and installed dehydrator plugs in top spark plug holes. Filled crankcase to excess with engine oil.	
				Robert Schick 35752573	
6/1/04	126.2	126.2	1234.0	Drained crankcase of excess oil, removed caps and dehydrator plugs, cleaned cylinders of residue, cleaned geyssal and reinstalled spark plugs. Test ran engine, all ok.	
				Robert Schick 35752573	
	28.4	28.4	28.4	SUB-TOTALS this page	
	126.2	126.2	1234.0	TOTALS—Carry forward to next page	

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
	126.2	126.2	1234.0	TOTALS brought forward from previous page
07/01/04	127.2	127.2	1235.0	Performed Annual Inspection per Section "100 hrs Service and Inspection Checklist", and FARs Part 43 appendix D and 91 subpart E. Inspected intake, exhaust, cooling belts, fuel system, accessories, hoses, wires and controls. Checked many timing, cleaned and replaced plugs, reinstalled. Inspected ignition harness for chafing, wiring and condition; found to be good. Lubed controls, rollers, and control stop pivots. Checked engine cylinder compressions: #1) 74/80 #2) 74/80 #3) 75/80 #4) 74/80 #5) 74/80 #6) 74/80 Verified AD 2004-8-10 201 cylinders to be inoperative. Src not installed, all cylinders supplied by command. Checked turbocharger and wastegate condition, good. Inspected exhaust system iaw AD 2000-1-16 effective 02/15/00; per compliance table, accomplished B, C, E. Checked pipes and flange condition visually, torque torque, spring dimensions and V band clamp condition. Pressure tested system for leaks. Inspected motor mount condition and found good. Test ran motor, checked for leaks, reinstalled couplings. Function tests checked good. Performed the following: AD 2004-8-10 effective 03/11/04 201 cylinders (N.A.) AD 2000-1-16 effective 02/15/00 Exhaust System: B, C, E. Verify that this engine has been inspected in accordance with the Annual Inspection and found to be Airworthy. See AEC 1450429 END
	1.0	1.0	1.0	SUB-TOTALS this page
	127.2	127.2	1235.0	TOTALS—Carry forward to next page

TOTALS—Carry forward to next page

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
	195.9	195.9	1302.7	TOTALS brought forward from previous page
03/01/05	202.3	202.3	1309.1	Performed Annual Inspection per 100hr Service Inspection Checklist and for Part 43 appendix D, 91 subject E. Inspected intake exhaust, valves, fuel system accessories, hoses wires and controls checked mag timing and compression. Sealed wastegates and exhaust slip joints. Performed the following: AD 2000-1-16 ess 02/15/00 Exhaust Spec B, C, & checked compressions, 1) 74/80 2) 74/80 3) 74/80 4) 77/80 5) 74/80 74/80 Test run motor and checked for leaks, all ok. I certify that this engine is airworthy at this time. David Liff ATPL 45056943
07/01/05	254.1	254.1	1360.9	Drained oil, cleaned separator screen, replaced oil filter and refilled with 15W50 Aeroshell - 12 qts. Visual inspection of exhaust system, wheel slip joint caps and checked spring tension. Complied with AD 2000-1-16. Test run engine, checked for leaks; none found. I certify that this engine is airworthy at this time. David Liff ATPL 45056943
08/17/05	320.9	320.9	1427.7	Drained oil, replaced oil filter, refilled with 15-50 aeroshell - 12 qts. Visual inspection of exhaust system, complied with AD 2000-1-16. Replaced intake and pipe - ok. Checked turbochargers cleaned air filter, inspected ignition system. Test-run & checked for leaks, none found. I certify engine airworthy. David Liff ATPL 45056943
	320.9	320.9	1427.7	SUB-TOTALS this page TOTALS—Carry forward to next page

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
	320.9	320.9	1427.7	TOTALS brought forward from previous page
10/1/05	386.4	386.4	1493.2	Drained oil, removal filter & checked for metal, none found. Cleaned & gapped plugs. Pressure tested exhaust system and visually inspected, complied with AD 2000-1-16. Refilled engine with Aeroshell 15-50, replaced oil filter. Test ran engine and checked for leaks, none found. I certify this engine airworthy at this time. David Lippitt ATP 48556544
11/5/05	449.6	449.6	1556.4	Drained engine oil, removal filter & checked for metal, none found. Refilled with 12 qts Aeroshell 15-50 and installed new oil filter, cleaned air filter, fuel strainer screen, checked mag timing and control rigging. Test ran motor and checked for leaks, none found. Visually inspected exhaust system in acc AD 2000-1-16 I certify this engine airworthy at this time. David Lippitt ATP 48556544
04/01/06	471.5	471.5	1578.3	Annual inspection this date in acc lesson 100 hr servicing and inspection checklist, and FAR Part 43 app. D § 91.503(a)(2) Test ran motor and visually inspected for fuel, oil and exhaust leaks. Drained oil & removed filter, checked for metal - none found. Removed, cleaned, gapped plugs, checked engine cylinders for compression 1) 73/80 2) 73/80 3) 74/80 4) 74/80 5) 73/80 6) 72/80 Replaced plugs and oil filter & reassembled all.
	150.6	150.6	150.6	SUB-TOTALS this page
	471.5	471.5	1578.3	TOTALS—Carry forward to next page

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
	471.5	471.5	1578.3	TOTALS brought forward from previous page
04/01/06				Refilled engine oil, inspected intake, exhaust, belts fuel system, accessories, hoses, wires and controls. Checked and set mag timing to specs. Soked wastegates and exhaust slipjoints. Accomplished AD 2000-1-16 BCE cleaned & reoiled Air Filter. Replaced cooling and test ran motor, checked work. Verify the engine airworthy at this time. David Liff 117450576943
10/10/06	496.4	496.4	1603.2	Drained oil and removed oil filter. checked filter for debris, none found. Refilled oil and replaced filter. Test ran and checked for leaks, none found David Liff ATP 450576943
12/16/06	521.4	521.4	1628.2	Drained oil and removed oil filter. Let open oil filter and checked for debris and metal, none found. Installed Sarnate Sky Pork Leaktite oil drain #62 Replaced filter and re filled with oil, 12 qts. Test ran and checked for leaks, none found. Soked wastegate and slipjoints, inspected exhaust system. Removed bad injectors and cleaned, reinstalled with new O-rings and seals. Checked for leaks, and test ran. Verify this engine is airworthy at this time David Liff #117450576943
	49.9	49.9	49.9	SUB-TOTALS this page
	521.4	521.4	1628.2	TOTALS—Carry forward to next page

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
	521.4	521.4	1628.2	TOTALS brought forward from previous page
5/01/07	537.3	537.3	1644.1	Annual Inspection this date. Test ran motor and verified rpm, up and temps. Removal cooling and visually inspected for fuel, oil and exhaust leaks. Drained oil, removed filter, cut open and inspected for debris or metal - none found. Removed oil separator screen and cleaned, then reinstalled. Inspected oil cooler visually, removed dirt from cooling fins. Inspected air filter, cleaned, recoded and reinstalled. Inspected motor per lesson 100 hr service and inspection checklists, and FHR Part 43 appendix D & Part 91 subpart E. Checked mag timing, tested engine cylinder compressions and found 1) 79/80 2) 71/80 3) 71/80 4) 70/80 5) 74/80 6) 71/80. Inspected plugs, cleaned & gapped, tested and reinstalled. Cleaned plug lead springs. Lubed wastegate & splines. Checked exhaust tailpipes, Pressure tested exhaust system and accomplished AD 2000-1-16 B, C, E. Replaced oil filter and filled motor with 12 qts of oil. Cleaned gas strainer screen. Lubed powerplant controls. Reinstalled cooling and test ran motor, checked for leaks & satisfactory operation, all ok. I certify this engine is airworthy at this time David J. 11A451516
	15.9	15.9	15.9	SUB-TOTALS this page
	537.3	537.3	1644.1	TOTALS—Carry forward to next page

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
	558.3	558.3	1665.1	TOTALS brought forward from previous page
10/1/10	570.0	570.0	1676.8	Accomplished this date an annual inspection per lesson 100hr. servicing & inspection checklist and in FAR Part 43d & 91e. Inspected engine attachments, hoses & control cables, fuel cables & rod ends. Visual full travel on all controls. Removal plugs, checked cylinder compressions, found the following 1) 70/80 2) 70/80 3) 70/80 4) 70/80 5) 70/80 6) 70/80 Tested & reinstalled spark plugs. Inspected exhaust system per AD 2000-1-167, C.E. Fueled shiping, inspected for leaks, none found. Inspected induction system, changed filter. Removal filter, drained oil, inspected for debris, none found. Replaced oil filter, refilled with 12 qts oil. Replaced drain valve. Verified mag timing Test run motor checked for leaks. none found. Annually this engine to be annually at this time
				David M 4886948
10/2/10	570.0	570.0	1676.6	Preserved engine for long term storage per TCMA-1. Purged fuel, tagged cylinders and sealed intake/exhaust ports. Robert C Shih AP 2648789 9/10
1/10/13	570.0	570.0	1676.6	Inspected engine for long flight. Drained excess oil, replaced sparkplugs and test run Robert C Shih AP 2648789 9/10
1/13/13	570.8	570.8	1677.1	Revised engine per TCMA-1 Purged fuel, tagged cylinders, sealed intake/exhaust ports Robert C Shih AP 2648789 9/10
	0.8	0.8	0.8	SUB-TOTALS this page
	570.8	570.8	1677.4	TOTALS—Carry forward to next page

