

Set

THE **adlog**TM AIRCRAFT
MAINTENANCE
RECORDKEEPING
SYSTEM

**ENGINE
MAINTENANCE
RECORDS**

TS10520BB

287619R

ENGINE MAINTENANCE RECORDS

Log No. 1

Aircraft Registration No. N4186T

Engine Manufacturer Continental

Model T510 520 BB 17 B

Serial No. 287619R

Date installed on aircraft 6-1-00

Time Between Overhauls (TBO) 1400 Hours

If used on multi-engine aircraft:

☐ Right

☐ Front

☒ Left

☐ Rear



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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 TS10520BB17B, Serial No. 287619-R, was rebuilt/zero timed on 03/23/99 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 TS10520BB17B, Serial No. 287619-R, was rebuilt/zero timed on 03/23/99 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

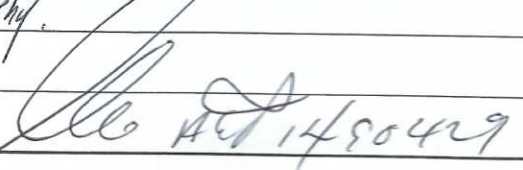
TOTALS—Carry forward to next page

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
			1107.8	TOTALS brought forward from previous page
				ENG. MODEL <u>TS10520BB</u> ENG. S/N <u>287619R</u>
				Teledyne Continental Motors has examined the core samples removed from crankshaft serial number <u>2089903N</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 Blackwood</u> TELEDYNE CONTINENTAL MOTORS MMF 322-10
6-1-00	⊕	⊕	1107.8	Above engine installed on N4186T, Seaside David Lyft ATP450569431A
6-1-00	⊕	⊕	1107.8	Annual Inspection performed on engines Run up + leak checked none found. I certify that this engine has been inspected I.A.W. an Annual Inspection and found airworthy at this time. <u>D. Lyft 1A45056943</u>
6-1-00	⊕	⊕	1107.8	Installed Reiff coil per heater, FAA/PMA # <u>PQ2585CE</u> rec with installation instructions. This installation is a minor alteration per FAR 43 appendix B. No form 337 is required. Work done by Rokor Sebeck, and inspected by David Lyft ATP45056943
	⊕	⊕	1107.8	SUB-TOTALS this page
	⊕	⊕	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
	0	0	1107.8	TOTALS brought forward from previous page
8/15/00	23.7	23.7	1131.5	Changed oil & filter, refilled with Acros Shell mineral oil; 50wt, 12 qts. Test run and checked for leaks, all ok. Robert Smith 3525815935
12/28/00	50.1	50.1	1157.9	Changed oil & filter. Refilled with 12 qts Acros Shell 15-50. Checked filter for debris and metal, none found. Checked exhaust system integrity - good. Cleaned Air & Fuel filters, greased exhaust and valve covers. Cleaned and gapped plugs. Robert Smith 3525815935
8-5-01	88.4	88.4	1196.2	Annual Inspection completed, this date. Compressions checked #1-74, #2-76, #3-74, #4-72, #5-74, #6-74. Cleaned and gapped plugs. Checked mag timing. Tested engine and leak checked. I certify that this engine has been inspected IAW an Annual Inspection and found to be airworthy at this time. David Sept 1A45058942
	64.7	64.7	64.7	SUB-TOTALS this page
	88.4	88.4	1196.2	TOTALS—Carry forward to next page

9.4	9.4	9.4
97.8	97.8	1205.6

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
	97.8	97.8	1205.4	TOTALS brought forward from previous page
6-1-03	126.2	126.2	1234.0	Annual Inspection this date checked compressors all above 70/80. cleaned and gapped plugs. Checked maps. I certify that this engine has been inspected & OK on Annual Inspection and found to be airworthy at this time. David Huff 1104005872
8/15/03	126.2	126.2	1234.0	Preserved engine for long term storage per manufacturer's guide. Removed lower plugs and installed caps. Filled cylinders with corrosion x and installed dehydrator plugs in top spark plug holes. Filled crankcase to excess with engine oil. Robert Smith 5555915
6/1/04	126.2	126.2	1234.0	Drained crankcase of excess oil, removed caps and dehydrator plugs, cleaned cylinders and residue. Cleaned, gapped and reinstalled spark plugs. Test ran engine, all ok. Robert Smith 5555915
	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 Lessee "10 hrs running and inspection Haller" and FHRs Part 43 appendix D and 91 subject E. Inspected intake, exhaust, cooling baffles, fuel systems, accessories, hoses, wires and controls. Checked mag timing; cleaned, gapped & reinstalled spark plugs. Inspected ignition harness for chafing, arcing and condition; good. Lubed control rod ends, mechanisms and control flap pivots. Checked engine cylinder compressions: #1) 74/80 #2) 74/80 #3) 74/80 #4) 74/80 #5) 74/80 #6) 74/80 Verified AD 2004-8-10 ECI cylinders to be inapplicable. SFC not installed, all cylinders were supplied by Continental. Checked turbochargers and wastegate condition, good. Inspected exhaust system in accordance with AD 2000-1-16 effective 03/15/00; per compliance table accomplished B,C,E. Checked pipes and flange condition visually, fastener 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 cooling. Function tests checked good. Performed the following: AD 2004-8-10 Effective 03/11/04 ECI cylinders. AD 2000-1-16 Effective 03/15/00 Exhaust System B,C,E. I certify that this engine has been inspected in accordance with an Annual Inspection and found to be Airworthy.  END
	1.0	1.0	1.0	SUB-TOTALS this page
	127.2	127.2	1235.0	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
	127.2	127.2	1235.0	TOTALS brought forward from previous page
Aug 7-04				Set engine fuel flow
	Time shows			Per SID 97-3 - Performed
		1236.5		test, flight found ok
	128.9	128.9	1236.5	for Service
				See AEP 490429
9/13/04	128.9	128.9	1236.5	verified installation of prop governor p# B210446.2, serial # 742478: accomplished at engine replacement done 6/1/00 at 1107.8 hrs airborne hours time. Governor Unit overhauled by Haps West, W.O # WW16055, 4/15/00
				See AEP 498429 END
01/06/05	195.9	195.9	1302.7	changed oil and filter checked for metal, none found. Added 12 quarts of Aeroshell 15W50 and bolt checked OK. Removed old plugs and installed new plugs PB325 and found to be airworthy. Visual inspected exhaust - OK Identify that this engine is airworthy, at this time Completed Reiff pre heat system FAIRPRA PQ 25850E by installing 64 bands. Per FAR 43app B this is a minor alteration, no 337 required.
				David Luff AEP 490508
	68.7	68.7	127.7	SUB-TOTALS this page
	195.9	195.9	1302.7	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 Lesson 100 hr. Service & Inspection Checklist and for Part 43 app D, 91, 91.1 & 91.2 Inspected intake, exhaust, brushes, fuel system, accessories, hoses, wires and controls. Checked mag timing and compression. Lubed waterpumps and exhaust slip joints. Performed 100 hr. Service and test run motor and checked for leaks all over. AD 2000-1-16 as of 03/15/00 Exhaust System B, C, E Checked compression: 1) 73/80 2) 74/80 3) 74/80 4) 75/80 5) 74/80 6) 75/80 I certify engine airworthy at this time David Lyff AIP 4505161943
07/10/05	254.1	254.1	1360.9	Drained oil, cleaned separator screen, replaced oil filter and refilled with 15W50 Aeroshell oil - 12 qts. Visual inspection of exhaust system, lubed slip joint couplers & 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 Lyff AIP 4505161943
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. Removed tail pipe for inspection and checked turbocharger both ok. Cleaned air filter, inspected induction system. Test run engine & checked for leaks, none found. I certify this engine airworthy at this time David Lyff AIP 4505161943
	125.0	125.0	125.0	SUB-TOTALS this page
	320.9	320.9	1427.7	TOTALS—Carry forward to next page
	320.9	320.9		

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	311.9	1427.7	TOTALS brought forward from previous page
10/1/05	386.4	386.4	1493.2	Drained oil, removed filter & checked for metal found none. Checked & gapped plugs, pressure tested exhaust system and visually inspected, complied with AD 2000-1-16. Refilled engine with Mobil 15-50, replaced oil filter. Test run engine and checked for leaks, none found. Permy this engine airworthy at this time
				David Liff ATP 485154B
11/5/05	449.6	449.6	1556.4	Drained engine oil and removed filter, checked for metal; none found. Refilled with 12 qts Mobil 15-50 and installed new oil filter. Checked air filter, fuel scanner screen. Checked mag timing & control rigging. Test run motor and checked for leaks, none found. Visually inspected exhaust system in AD 2000-1-16. Permy this engine airworthy at this time
				David Liff ATP 485154B
4/10/06	471.5	471.5	1578.3	Annual inspection of this date. Test run motor, visual inspection for fuel, oil and exhaust leaks. Checked control rigging and metal. Drained oil & removed filter. Checked for metal, none found. Replaced both. Inspected per lesson 100 hr service & inspection chapter, and FAR Part 43 app D & 91 subpart E. Inspected intake, exhaust, belts, fuel system, accessories, hoses, wires and controls. Checked mag timing and set to specs. Checked
	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
4/01/06				cylinder compressions 1) 73/80 2) 73/80 3) 74/80 4) 74/80 5) 74/80 6) 73/80. Cleaned, gapped, reinstalled and torqued spark plugs. Lubed wastegates and exhaust slipjoints. Rechecked AD 8000-1-16 B,C,E. Cleaned Air filter & reoiled. Rptdly cranking and test run motor, checked work. & certify this engine airworthy at this time.
				David Lynn A450516943
10/01/06	496.4	496.4	1603.2	Drained oil and removed oil filter. Checked filter for debris, none found. Refilled oil and replaced filter. Test run and checked for leaks, none found.
				David Lynn A450516943
12/16/06	521.4	521.4	1628.2	Drained oil and removed oil filter. Cor open filter and checked for debris, none found. Refilled oil after installing new oil filter and Sacramento shy ranch Laprolite oil drain #62. Test run and checked for leaks, none found. Lubed wastegate, checked exhaust system springs and lubed slipjoints. Removed fuel injectors and cleaned, reinstalled using new O-rings and seals, checked for leaks, and adjusted idle rpm. & certify this engine is airworthy at this time
				David Lynn A450516943
	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 run motor and verified rpm, up and temps. Visually inspect for fuel, oil, and exhaust leaks. Drained oil and removed & over open filter and checked for debris, none found. Remove oil separator screen and cleaned, then reinstalled. Inspected air filter, cleaned and reoiled & reinstalled. Inspected per lesson 100 hr. Service & inspection checklist, and view FAR Part 43 Appendix D & Part 91 subpart E. Checked mag timing and set to specs, checked cylinder compressions, 1) 70/80 2) 71/80 3) 70/80 4) 72/80 5) 71/80 6) 70/80. Inspected spark plugs, cleaned & gapped, tested and reinstalled. Cleaned spark plug lead springs. Sealed wastegates and slip joints, checked exhaust tail pipes. Pressure tested exhaust system and accomplished AD 2000-1-16 B, C, E. Replaced oil filter and filled motor with 12 qts oil. Cleaned gas strainer screen. Sealed pump/plate couplers. Reinstalled coupling and test run motor, then checked for leaks & satisfactory operation. All ok. I certify this engine airworthy at this time. David Lipp 11845051694
	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 an Annual Inspection this date per form 100hr Service & Inspection checklist and FAR Part 43d & 91e. Inspected mounts & hoses & control cables, labeled cables. Removed plugs, checked cylinder compressions; found the following 1) 70/80 2) 70/80 3) 71/80 4) 70/80 5) 71/80 6) 70/80. Inspected plugs & reinstalled. Checked mag timing. Checked exhaust system condition per ANACOD-1-16B,C,E. & labeled shippings. Inspected intake filter and induction system & Mr. Birdor drained oil & removed filter, inspected for debris, none found. Replaced filter, refilled oil with 12 qts oil. Test run motor, checked for leaks, none found. Verified satisfactory operation. I certify this engine to be airworthy at this time
				David L. Smith AIA 45056943
10/2/10	570.0	570.0	1676.6	Preserved engine for long term storage per TEM 99-1 Purged fuel, bled cylinders and sealed intake/exhaust ports. Robert C Schuh AIA 26487899/10
1/10/13	570.0	570.0	1676.6	Inspected engine for long flight. Drained excess oil, reinstalled spark plugs and test run. Robert C Schuh AIA 26487899/10
1/12/13	570.8	570.8	1677.1	Preserved engine for long term storage per TEM 99-1 Purged fuel, bled cylinders and sealed intake/exhaust ports. Robert C Schuh AIA 26487899/10
	0.8	0.8	0.8	SUB-TOTALS this page
	570.8	570.8	1677.4	TOTALS—Carry forward to next page

TOTALS—Carry forward to next page