

THE **adlog**TM AIRCRAFT
MAINTENANCE
RECORDKEEPING
SYSTEM

**ENGINE
MAINTENANCE
RECORDS**

This engine model TS10520R9B, Serial No. 294070-R, was rebuilt/zero timed on 06/07/99 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
M77-6	77-05-04	REPLACED WITH NEW PART	M91-7	N/A	ULTRASONIC INSPECTION OF BARREL
M79-2	79-05-09	REPLACED WITH NEW PART	N/A	91-19-03	OIL FILTER CHANGE
M80-20	80-22-05	ADDED PLATE & BOLTS	M92-6	N/A	ROCKER SHAFT RETENTION IMPROVEMENT
M80-26	81-24-06	N/A BY PART SERIAL NUMBER	M92-16	N/A	CRANKSHAFT REPLACED
M86-7	86-13-04	REPLACE WITH NEW PARTS	MSB93-12	93-10-02	N/A SERIAL NUMBER NOT APPLICABLE
M87-5	97-26-17	CRANKSHAFT ULTRASONIC INSPECTION	CSB94-1	94-06-09	REPLACED CAPACITOR AS APPLICABLE
M88-4	88-03-06	REPLACED WITH NEW PARTS	CSB94-15	N/A	CRANKCASE STUD INSPECTION
M90-6	89-24-01	REPLACED WITH NEW PARTS	CSB96-8	N/A	REPLACEMENT OF AIRMELT (NON-VAR) CSHAFTS
M90-21	N/A	ULTRASONIC INSPECTION OF BARREL	MSB96-10	N/A	CRANKSHAFT ULTRASONIC INSPECTION
M91-6	N/A	ULTRASONIC INSPECTION OF BARREL	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.

SB	AD	REMARKS
CSB9710A	97-21-02	PISTON PIN PLUG WEAR
CSB98-1	N/A	INTAKE AND EXHAUST VALVE INSPECTION.
N/A	80-01-04	CYLINDER REWORK - AIRMOTIVE ENGINEERING
CSB99-3A	99-09-17	COMPLIED WITH

TELEDYNE CONTINENTAL MOTORS
PRODUCTION CERTIFICATE NO. 508



RS

180-02

1. RECORD COMPONENT SERIAL NUMBER DATA SHEET BELOW (AS APPLICABLE).

CRANKSHAFT <u>E189924N</u>	STARTER <u>S-179904</u>
CRANKCASE <u>G299603R</u>	ALTERNATOR <u>N/A</u>
DRIVE GEAR <u>N/A</u>	LEFT TURBO <u>N/A</u>
DRIVEN GEAR <u>N/A</u>	RIGHT TURBO <u>N/A</u>
LEFT MAG <u>E279915FR</u>	OVERBOOST <u>N/A</u>
RIGHT MAG <u>E139910FR</u>	CONTROLLER <u>N/A</u>
CARBURETOR <u>N/A</u>	WASTEGATE <u>N/A</u>
<u>646768-1A1</u> FUEL PUMP <u>E179920BR</u>	OIL COOLER <u>D99-3262-91</u>
MANI. VALVE <u>E179920CR</u>	NOZZLE SIZE <u>14C</u>
METERING UNIT <u>E179922AR</u>	APPLICABLE EVOIS <u>S</u>

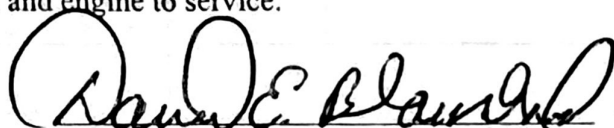
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DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
 Teledyne # 251-438-3411 Mickey Brignac Aviation Inc. Houma, LA 70363				
December 6, 1999		Tach 1659.0 hrs	Total Time Engine 00.0 Hours	Engine S/N 294070-R (Factory Rebuilt) TSIO 520-R9B engine and a McCauley D3A34C-402-C prop installed iaw RAM Aircraft Inc. STC SA 2689SW. Installed a Knisley Welding Inc. modified exhaust system iaw STC's SA 5009NM & SA 5012NM. Installed a TurboPlus, Inc. Intercooler System iaw STC SA2390NM. Engine was installed with new lord mounts, hoses, silicone baffle seals; overhauled turbo, controller, pressure relief valve, wastegate & actuator, prop governor. I certify that this engine has been inspected in accordance with an annual inspection and was determined to be in an airworthy condition <i>Mickey Brignac</i> IA1713641
1-28-00	Tach: 1665.99			Dynamic Balanced & Vibration Spectrum Tracked this A/C Spinner - Propeller - Engine Comb., as per "specs." See Propeller Log for detailed entry. -END- <i>[Signature]</i> A&P428682644-IA
7/31/2000	TACH 1711.08			DRAINED OIL, REPLACED FILTER WITH A NEW CH4809. CUT OPEN OLD FILTER. NO METAL CONTAMINATION NOTED. SERVICED ENGINE WITH 11 QTS. AeroShell 100W50 OIL. ENGINE GROUND RUN AND LEAK OK <i>[Signature]</i> AP437042288 COMPLETED WITH CONTINENTAL SERVICE BULLETIN TCM MSB 00-5. SEE ENTRY BELOW BY TCM. REINSTALLED PROPELLER. FUNCTIONAL AND LEAK OK <i>[Signature]</i> AP437042288
				SUB-TOTALS this page
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ENG. MODEL TSIO520 ENG. S/N 294070

Teledyne Continental Motors has examined the core samples removed from crankshaft serial number E189524M 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.


TELEDYNE CONTINENTAL MOTORS
MMF 322-10



Mickey Brignac Aviation, Inc.

Houma, LA 70363

02/23/01 Tach 1750.0 hrs TSFR 91.0 hrs
Changed oil and filter, serviced spark plugs, cleaned
fuel screens, checked mag timing.
All compressions @ 75/80 lbs

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



Mickey Brignac
IA1713641

Mickey Brignac Aviation Inc.

Houma, LA 70363

05/16/2001 Tach 1774.0 hrs TSFR 115.0 hrs
Removed engine driven fuel pump p/n 646768-1A1,
s/n E179920BR and replaced with s/n B00JA179R.
Fuel pressures set per TCM SID 97-3. Aircraft test
flown to altitude and determined to meet performance
requirements.



IA1713641

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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
2004		Factory TTSMOH		TOTALS brought forward from previous page
8-20		461.77	75.8	Compressor taken $\frac{1}{32}$ $\frac{3}{16}$ $\frac{5}{24}$ $\frac{2}{8}$ $\frac{4}{16}$ $\frac{6}{16}$ Inspection performed per Cessna Inspection form for T210 and Continental Maintenance Manual. Replaced cylinders #1 & 5 & #2 with serviceable cylinders and pistons w/ new rings. Replaced wastegate unit - Top below. Adjusted wastegate controller. Non-detergent oil installed & new filter. Timing checked. New RHB-32E spark plugs installed. Fuel Injectors cleaned and new seals installed. Test Run and checked compression taken - All cylinders in 70% - I certify this Aircraft Engine has been inspected IAW an Annual Inspection and has been found to be in an Airworthy condition. Peter L. Favre DA2203049 AYP

DATE

TOTAL
TIME
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SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK

TOTALS brought forward from previous page

Tachtime 161.6

Dec 22, 2005

N727FA

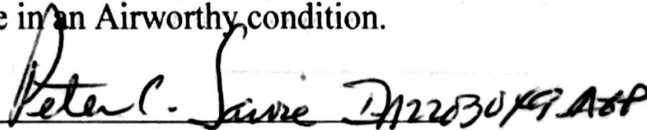
Total Time Airframe 3109.37Hrs.

TSMOH 547.87 Hrs.

Compression test 1/68 2/79 3/71 4/55 5/55 6/60. Cleaned and gapped spark plugs.
Inspection performed per Cessna Service Manual and Continental Maintenance Manual.
Changed Oil and filter serviced with Aeroshell W100. Engine run up and checked for
leaks, none found.

I certify this Aircraft Engine has been inspected In Accordance with an Annual Inspection
and has been found to be in an Airworthy condition.

Authorized Signature

Peter C. Laine DA22030/K9 A&P

Other Maintenance performed.

1. Turbo Controller Overhauled by Main Turbo Systems, Inc.
2. Replaced Upper Intercooler Temp Probe.
3. Replaced Oil Breather Tube

**Mickey Brignac Aviation, Inc.**

Houma, LA 70363

03/08/2006 Tach 193.3 hrs TSFR 579.57 hrs
Changed oil and filter, changed front engine Lord
mounts; pressurized intake system and corrected leaks;
functional checked waste gate and lubed; adjusted
baffle seals on starboard side of engine and replaced
missing hardware; adjusted fuel system i/a/w TCM SID
97-3C

Mickey Brignac
IA1713641

DATE

TOTAL
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Brignac Aviation, Inc.

Houma, LA 70363

09/28/2006

Tach 226.5

TSMOH612.77

Changed oil and filter, cut open filter for inspection; added 12 qts Aero Shell W 100. Cleaned and flushed turbo controller and reinstalled

Mickey Brignac

Mickey Brignac
IA1713641



Brignac Aviation, Inc.

Houma, LA 70363

12/15/2006

Tach 258.00 hrs TSMOH 644.27 hrs

Changed oil and filter, serviced spark plugs, cleaned fuel screens, checked mag timing; turbo controller, hydraulic pump, and prop governor overhauled

Compressions: #1-70; #2-70; #3-71; #4-68; #5-72; #6-70

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

Mickey Brignac

Mickey Brignac
IA1713641

BRIGNAC



AVIATION

HOUMA, LOUISIANA 70363

01/11/07

Old Tach 263.3 hrs

New Tach 00.0 hrs

Changed oil and filter, added 11 qts Aero Shell W 100; replaced tach drive seal, installed new mechanical OEM tach.

Mickey Brignac

Mickey Brignac IA1713641

SUB TOTALS this page

TOTALS- Carry forward

DATE

BRIGNAC



AVIATION

HOUMA, LOUISIANA 70363

03/06/07

Tach 33.0 hrs

Changed oil and filter, added 11 qts Aero Shell W 100;
replaced tach drive seal

Mickey Brignac

Mickey Brignac IA1713641

BRIGNAC



AVIATION

HOUMA, LOUISIANA 70363

04/23/07

TSMOH 727.67 hrs

Old Tach 53.30 hrs

(Top Overhaul)

Removed all cylinders, honed barrels, replaced exhaust valves and guides, replaced rings, connecting rods overhauled, new rod bearings installed, new rod bolts and nuts, changed oil and filter, added 11 qts Aero Shell 100 mineral; Replaced mechanical tach with Horizon Electrical Tach adjusted to airframe total time (3264.5).(note FAA form 337 this date)

Mickey Brignac

Mickey Brignac IA1713641

BRIGNAC



AVIATION

HOUMA, LOUISIANA 70363

05/21/07

TSMOH 739.20 hrs

Tach 3300.7 hrs

Changed oil and filter, added 11 qts Aero Shell W 100

Mickey Brignac

Mickey Brignac IA1713641

BRIGNAC



AVIATION

HOUMA, LOUISIANA 70363

07/25/07

TSMOH 751.20 hrs

Tach 3312.7 hrs

Changed oil and filter, added 11 qts Aero Shell W 100,
changed cowl flap attach mounts

Mickey Brignac

Mickey Brignac IA1713641

DATE

IN
SERVICESINCE
OVERHAULMETER
TIME

SIGNATURE

BRIGNAC**AVIATION**

Houma, Louisiana 70363

03/12/08 Tach 3364.27 hrs TSMOH 802.77 hrs

Changed oil and filter; checked mag timing; changed spark plugs
Compression @ 80 lbs #1-76; #2-72; #3-70; #4-72; #5-72; #6-70

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

IA1713641

BRIGNAC**AVIATION**

Houma, Louisiana 70363

06/03/08

Tach 3415.67

TSMOH 854.17 hrs

Changed oil and filter, added 10 qts Aero Shell 15W50; cut
filter open, washed and run engine for leaks

Mickey Brignac IA1713641

BRIGNAC**AVIATION**

Houma, Louisiana 70363

11/07/08

Hobbs 3500.3

TSMOH 938.8 hrs

Changed oil and filter, added 11 qts Aero Shell W 100, cut
open filter and inspected; repaired broken magnetic latch on
alternate air door; changed crankshaft oil seal; pressurized
engine to check for pneumatic leaks; cleaned Air Wolf air/oil
separator

Mickey Brignac IA1713641

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				
N727FA	08/04/2009	Tach: 3589.35	Eng TT: 1027.95	
1. Performed 100 hour inspections and servicing with reference to FAR 43 Appendix D. 2. Compressions: #1-71/80, #2-40/80, #3-51/80, #4-60/80, #5-73/80, & #6-66/80. Master orifice test minimum for the day is 34/80. All cylinders borescoped with no discrepancies noted and all exhaust valves appear in good condition. Recommend engine be flown and compressions rechecked in accordance with TCM SB03-3. 3. Oil cooler removed for repair and reinstalled with new gasket p/n 654560 and gasket p/n 654593. See Pacific Oil Cooler Service, Inc. FAA CRS #RF3R813L work order #71522 for oil cooler overhaul details. 4. Reinstalled turbo waste gate drain system by installation of union p/n AN815-4D, packing p/n MS28778-4, coupling nut p/n AN818-4D, coupling sleeve p/n AN819-4D, 6 inches of 1/4" diameter aluminum tube, and 16" of MIL-H-6000 1/4" hose. 5. Installed new turbo oil return hose p/n 035018-8D0290 and inlet hose p/n AE7010000E0310. 6. Removed spark plugs, cleaned, inspected, gapped, tested, and reinstalled with new gaskets p/n 07-00877. 7. Installed new induction tube head deflector p/n 0750143-1 at cylinder #2. 8. Installed new turbo support and hardware; support p/n 1250818-200, support p/n 1250818-201, bolt p/n NAS464P6A6 (6 ea.), nuts p/n MS21043-6, nuts p/n MS21042L6, nuts p/n S1604-6 (4 ea.), bolts p/n MS20036-5 (3 ea.), bolt MS20036-7, clamp p/n S1921-1 (2 ea.) and gasket p/n 636465. 9. Installed overhauled turbo charger p/n 406610-9005 s/n SHR0126 with reference to Kelly Aerospace service bulletin No.23. See Approved Turbo Components FAA CRS #U5AR184Y work order #28785 for overhaul details. 10. Installed induction drain system parts; line p/n 1200106-141, line p/n 1200106-233, line p/n 1200106-139, nipple p/n AN816-4D, tee p/n AN824D (2 ea.), nut p/n AN818-4D (6 ea.), sleeve p/n AN819-4D (6 ea.), and elbow p/n AN822-4D (2 ea.). 11. Right magneto installed new contact p/n 10-382584, capacitor p/n 10-400615 and reinstalled with new gasket. Timed both mags to engine. 12. Installed overhauled turbo charger exhaust tail pipe p/n K1250860-110. See Aerospace Welding FAA CRS #UWDR792L work order #125912 for overhaul details. 13. Fabricated replacement oil hose from turbo waste gate to engine case port using serviceable end fittings and new Stratoflex 111-5 hose with fire sleeve. Rearranged oil supply hoses to turbo and oil pressure indicator for proper routing. 14. Adjusted oil pressure in 2 1/2 turns. 15. Installed overhauled turbo controller p/n 470688-9007 s/n DDR0149. See RAM Aircraft FAA CRS #VA1R551K work order #53050 for overhaul details. 16. Installed overhauled engine driven fuel pump p/n 646768-1 s/n B00JA179R. See D&G Supply FAA CRS #NK2R034L work order #19745 for overhaul details. 17. Performed engine system adjustments in accordance with TCM SID97-3C. 18. Serviced engine with 9 quarts of Phillips 20W50 and installed a new filter p/n AA48108. 19. Turbo charger oil check valves removed, inspected, cleaned, and reinstalled. Work performed by Doug Kail, Robert Batterman, Janet Young, Joe Norris, and Paul New.				
Paul New				A&P 3017596 IA
Tennessee Aircraft Services, Inc.				

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DA

ENGINE MODEL:
TSIO-520-R(9)
ENGINE S/N: 294070-R
REG. NO: 727FA
WORK ORDER: 5303



Tennessee Aircraft Services, Inc.

2313 Technology Center Drive
Jackson, TN 38301
Phone: 731-424-7227

DATE: 11 May, 2010
A/C TSN: 3716.82
ENG TT: 1155.42
TACH: 3716.82

IRK

Engine Entries

- Serviced engine with 10 quarts of Phillips 20W50 oil and installed a new filter p/n AA48108-2. Old filter opened and inspected with no discrepancies noted. Installed plug with new gasket p/n MS35769-11. Reset oil gauge housing in case for correct reading with original markings.
- Installed New E.C.I. "Double Band" Titan Cylinder assemblies (including new overhauls & Pins & pistons) p/n 71.4BCA with s/n # 1- 65025-15 #2- 65025-16 3- 65910-21 4- 65667-17 5- 65025-07 6- 65976-19. Installed utilizing 6@ P/N: AEC520-T1S Gasket & Seal Kit.
- Removed, Cleaned, Inspected, Fuel Injectors P/N: 14C Installed new P/N: AEC630979-9 O'Rings & P/N: AEC640612 flat rubber washers. Installed and torqued to 55" #
- Installed new exhaust clamps p/n 1250860-29 (4 ea.) on #1 and #6 risers using new hardware.
- Installed new cam followers as follows: #2 Exhaust P/N: 653877- #5 Intake P/N: 653877 Exhaust P/N: 653888 Intake.
- Installed 2@ P/N: 1250402-2 1@ P/N: 1250402-1 hose support straps and clamps 2@ S1486DG8U & 2@ S1486DG14 & 1@ S1486DG18 to support oil lines to waste-gate.
- Oil cooler flushed and reinstalled with new gaskets p/n 652079 & 654560.
- Fabricated new waste gate oil scabenge hose using Stratoflex 111-6 (5') and original end fittings. Installed firesleve. Tested assembly to 2000 p.s.i. successfully. Install on engine.
- Spark plugs removed, cleaned, inspected, gapped, tested, and reinstalled with new gaskets p/n AN-4017-1 (12 ea.)
- Adjusted Take-Off fuel flows and idle mixture in accordance with TCM & Turbo-Plus instructions.

I certify this aircraft has been inspected in accordance with an Annual Inspection and found airworthy.

DATE: 11 May, 2010

SIGNED:

Work Order: 5303

Paul New, IA: 3017596

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ENGINE MODEL:
TSIO-520-R(9)
ENGINE S/N: 294070-R
REG. NO: 727FA
WORK ORDER: 5381



Tennessee Aircraft Services, Inc.

2313 Technology Center Drive
Jackson, TN 38301
Phone: 731-424-7227

DATE: 05 August, 2010
A/C TSN: 3763.08
ENG TT: 1201.68
TACH: 3763.08

Engine Entries

- Serviced engine with 10 quarts of Phillips 20W50 oil and a new filter p/n ES48108-1. Old filter opened and inspected with no discrepancies noted. Installed plug with new gasket p/n MS35769-11. Engine ground run satisfactorily.

DATE: 05 August, 2010

SIGNED:

Work Order: 5381

Janet Young, A&P: 3286150

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ENGINE MODEL:
TSIO-520-R(9)
ENGINE S/N: 294070-R
REG. NO: 727FA
WORK ORDER: 5400



Tennessee Aircraft Services, Inc.

2313 Technology Center Drive
Jackson, TN 38301
Phone: 731-424-7227

DATE: 14 September, 2010
A/C TSN: 3773.57
ENG TT: 1212.17
TACH: 3773.57

Engine Entries

- Oil Filter removed, drained, opened, cut-open, inspected, no contamination or defects found. Installed and saftied new AA48108-2 filter.
- Completed compression check IAW TCM SB-03-3 80# 1- 78 2- 78 3- 78 4- 78 5- 78 6- 78
- See FAA Form 337 this date for installation of GAMI TCM Fuel Nozzles p/n: 632748-14C, Kit # GT14C s/n: 20238 IAW STC # SE09289SC and TurboGAMIjector Installation Procedure # IP-97-002 (rev 001) dated February 6, 1997.
- Checked and repositioned center baffle as needed on #6 cylinder.
- Installed new style filament in air/oil separator canister p/n W-2015 and new gasket p/n W-2003.
- Installed new alternator belt p/n 539547-31.19.

I certify this aircraft has been inspected in accordance with an Annual Inspection and found airworthy.

DATE: 14 September, 2010

SIGNED:

Work Order: 5400

Joe Norris, IA: 3466262

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ENGINE MODEL:
TSIO-520-R(9)
ENGINE S/N: 294070-R
REG. NO: 727FA
WORK ORDER: 5475



Tennessee Aircraft Services, Inc.

2313 Technology Center Drive
Jackson, TN 38301
Phone: 731-424-7227

DATE: 17 November, 2010
A/C TSN: 3822.7
ENG TT: 1261.3
TACH: 3822.7

Engine Entries

- Serviced engine with 10 quarts of Aeroshell W 80 and installed a new filter p/n AA48108-2. Opened old filter and inspected with no discrepancies noted. Oil sample taken for analysis. Oil plug installed with new gasket p/n MS35769-011. Engine ground run satisfactorily.

DATE: 17 November, 2010

SIGNED:

Work Order: 5475

Doug Kail, A&P: 3360806

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ENGINE MODEL:
TSIO-520-R(9)
ENGINE S/N: 294070-R
REG. NO: 727FA
WORK ORDER: 5531



Tennessee Aircraft Services, Inc.

2313 Technology Center Drive
Jackson, TN 38301
Phone: 731-424-7227

DATE: 26 January, 2011
A/C TSN: 3860.61
ENG TT: 1299.21
TACH: 3860.61

e No. _____

RK

Engine Entries

- Serviced engine with 10 quarts of Aeroshell W80 Plus and installed a new filter p/n AA48108-2. Old filter opened and inspected with no discrepancies noted. Reinstalled drain with new gasket p/n MS35769-11. Oil sample taken for analysis.
- Lubricated turbo waste gate with loctite nickel anti-size.
- Spark plugs removed, cleaned, gapped, tested, inspected, rotated, and reinstalled.

DATE: 26 January, 2011

SIGNED:

Doug Kail, A&P: 3360806

Work Order: 5531

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POWERMASTER AIRCRAFT ENGINES

9027 S. Airport Way
Jones/Riverside Airport
Tulsa OK 74132
918-299-0269
FAA CRS # P46R287Y

Engine Repair Record

Engine Make: Continental

Model: TSIO-520R

Serial Number: 294070-R

PAE Work Order # 111116-1

Date of Repair: 11-16-2011

Total Time: SMOH

Disassembled engine, cleaned and inspected.

Crankcase machined and overhauled by Divco Inc. on Work Order WDC#105616, Camshaft bore returned to STD size.

Crankshaft Ultrasonic inspected by Aircraft Specialties on WO# S-209285-1.

Prepared crankcase, installed new deck studs, main bearing set PN-AEC646591-A1, new TCM camshaft PN-655384, SN-103094, 6 each SA646277 lifter, Lot # K110080888, 6 each SA628488 lifter, Lot # G110079553.

500 Hour inspection performed on both magnetos by Quality Aircraft Accessories on WO#127508.

Left Magneto: 10-349350-4, SN-74465.

Right Magneto: 10-349350-5, SN-74466.

Replaced all seals and gaskets. Assembled engine in accordance with TCM Overhaul Manual X30575A. No cylinder work performed at this time.

Test ran engine and verified run parameters. Drained oil, removed and inspected oil filter for contaminants, none, found. Install new oil filter and safetied.

Prepared for shipment.

The engine and accessories identified above were inspected and repaired in accordance with current Federal Aviation Regulations and were found airworthy for return to service. Details of this repair are on file at this repair station under Work Order # 111116-1.

Signature

William R. Cunningham
FAA CRS #P46R287Y

ENGINE MODEL: TSIO-520-R(9)
ENGINE S/N: 294070-R
REG. NO: 727FA
WORK ORDER: 5670



Tennessee Aircraft Services, Inc.

2313 Technology Center Drive
Jackson, TN 38301
Phone: 731-424-7227

DATE: 02 December, 2011
A/C TSN: 3939.6
ENG TT: 2280.6
TACH: 3939.6

Engine Entries

Removed oil & filter opened filter and inspected for contamination, found no contamination. drained oil. Installed new p/n: MS35769-11 gasket. Serviced newly overhauled engine with 9 quarts Aeroshell W80.

Compression check /80#: 1- 75 2- 73 3- 77 4- 76 5- 78 6- 77 (taken prior to engine work at PowerMasters).

Inspected cylinders and valves with a borescope. All wear appears normal. (this work performed prior to engine work at PowerMasters).

Spark plugs removed, cleaned, gapped, inspected and tested. Reinstall with new gaskets p/n AN4027-1. (this performed after engine work at PowerMasters)

Removed engine for Repairs by outside agency.

Installed engine after repairs by Powermaster Inc (Bill Cunningham) of Tulsa.

installed p/n: 0851559-1 tab-locks and 2@ An7-42A front mount bolts and shimmed forward mounts for correct clearance to cowling. installed 10 quarts of Aero-shell W80 oil.

Performed 100 hour inspections and servicing with reference to FAR 43 Appendix D.

DATE: 02 December, 2011

SIGNED:

Paul New, IA: 3017596

Work Order: 5670

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DATE

ENGINE MODEL:
TSIO-520-R(9)
ENGINE S/N: 294070-R
REG NO: 727FA
WORK ORDER: 6023



Tennessee Aircraft Services, Inc.

2313 Technology Center Drive
Jackson, TN 38301
Phone: 731-424-7227

DATE: 19 February, 2013
A/C TSN: 3976.27
ENG TT: 2317.27
TSMOH:
TACH: 3976.27

Engine Entries

- Performed 100 hour inspection with reference to FAR 43 appendix D.
- Compressions (master orifice 43/80): 1.70, 2.50, 3.74, 4.70, 5.77, 6.72
- Borecope engine cylinders with no defects noted.
- Drained oil sump and took sample for analysis. Reinstalled drain plug with new gasket p/n MS35769-11. Removed oil filter and opened for inspection with only minimal aluminum flaking noted. Serviced engine with 9 quarts of Aeroshell W100, one pint Camgard, and installed a new filter p/n AA48108-2. Engine ground check run satisfactory.
- Fuel servo inlet screen removed, inspected, cleaned and reinstalled. Leak checked satisfactory.
- Pressure tested exhaust system with no defects noted.
- Adjusted left and right magneto timing to 22 degrees BTC as per engine data plate.
- Installed new induction air filter p/n BA9005.
- Installed heater shroud with new aft duct hose.
- Installed plug and clamp on #3 cylinder exhaust riser.
- Installed new set of spark plugs p/n UHRB32E (12 ea.).
- Work performed by Doug Kail and Paul New.

I certify this aircraft has been inspected in accordance with an Annual Inspection and found airworthy.

DATE: 19 February, 2013

SIGNED:

Work Order: 6023

Paul New, IA: 3017596

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ENGINE MODEL:
TSIO-520-R(9)
ENGINE S/N: 294070-R
REG NO: 727FA
WORK ORDER: 6258



Tennessee Aircraft Services, Inc.

2313 Technology Center Drive
Jackson, TN 38301
Phone: 731-424-7227

DATE: 02 August, 2013
A/C TSN: 4034.65
ENG TT: 2375.65
TSMOH:
TACH: 4034.65

Engine Entries

- Oil sump drained and sample taken for analysis. Removed old filter and opened for inspection with only minimal non-ferous flakes found. Installed new filter p/n AA48108-2, reinstalled drain plug with new gasket p/n MS35769-11 and serviced engine with 11 quarts of Aeroshell W100 Plus and 1 pint of Camgard. Engine ground check run satisfactory.

DATE: 02 August, 2013

SIGNED:

Work Order: 6258

Doug Kail, IA: 3360806

Printed by EBis 3 (datcomedia.com)



Southern Aircraft Services, L.L.C.

4041 Chuck Yeager Ave. • Baton Rouge, Louisiana 70807
Office (225) 354-1689 • Fax (225) 354-7950

N727FA ENGINE LOG ENTRY 06/13/2014 PAGE 1 OF 1
CONTINENTAL TSIO-520-R (13) S/N 2994070-R TACH: 4068.06

- Complied with 100HR inspection IAW Cessna T210K AMM 100 HR/ annual inspection checklist.
- C/W oil and filter change. Drained oil and removed oil filter. Cut oil filter and found no sign of metal. Installed new oil filter P/N CH48108-1 and 11qts x Aeroshell w100 oil. Ground run engine with no leaks noted at this time.
- Complied with cylinder compression check as follows: Metered Orifice Reading = 46 psi

CYL #	1	2	3	4	5	6
PSI	70/80	66/80	70/80	68/80	72/80	74/80

- Removed spark plugs, cleaned, gapped and tested. Re-installed and torqued IAW Manufacturers EMM.
- Removed propeller governor P/N C290D2J/T2 S/N 731921 and sent to R&D Propellers CRS # R5DR343X for repair. Re-installed same after repair.

I CERTIFY THAT THE ABOVE MAINTENANCE AND/OR ALTERATION DESCRIBED ABOVE WAS ACCOMPLISHED IN ACCORDANCE WITH THE REQUIREMENTS OF 14CFR43, AND WITH RESPECT TO THE WORK PERFORMED IS AIRWORTHY AND APPROVED FOR RETURN TO SERVICE. DETAILS ON FILE WITH THIS AGENCY UNDER WORK ORDER # 100984

DATE: 06/13/2014

AUTHORIZED SIGNATURE

CEDRIC C PALM IA/A&P # 2690573

SUB-TOTALS this page

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ENGINE MODEL: TSIO-520-R(9)
ENGINE S/N: 294070-R
REG. NO: 727FA
WORK ORDER: 6758



Tennessee Aircraft Services, Inc.

2313 Technology Center Drive
Jackson, TN 38301
Phone: 731-424-7227

DATE: 01 October, 2015
A/C TSN: 4093.34
ENG TT: 2434.34
TSMOH:
TACH: 4093.34

Engine Entries

Performed 100 hour inspection on engine with reference to CFR 43 appendix D

Compressions (master orifice 42/80): 1.74, 2.48, 3.20, 4.76, 5.64, 6.70

Borescope engine cylinders for condition and found all normal.

Spark plugs removed, cleaned, resistance checked, inspected, gapped, ops checked and reinstalled with new gaskets p/n AN4027-1.

Drained oil sump and took sample for analysis. Installed drain plug with new gasket p/n MS35769-11 and safetied. Removed oil filter and opened for inspection with only minimal metal flakes noted. Installed new filter p/n AA48108-2 and serviced engine with 9 quarts of Phillips 20W50 XC and a pint of Camguard.

Continental CSB08-3 complied with by inspection. Throttle and mixture control levers are secure.

Fuel servo inlet screen removed, cleaned, inspected and reinstalled with new gasket p/n 649983 and safetied. Leak check good.

AD71-09-07 R1 amendment 39-5445 effective date 11/26/1986 complied with by pressure test and inspection of the exhaust system. No discrepancies noted. Next due by AFTT: 4143.34.

Set idle fuel pressure to 6.4 psi in accordance with SB97-3. Ops check was good.

#3 cylinder removed valve cover, removed gasket and cleaned mating surfaces. Pressured cylinder to evacuate any debris between the valves and the valve seats. Rechecked compression and found at 63/80.

Re-installed valve cover with new gasket p/n 655528. Torqued retaining screws to "#50 in accordance with TCM TSIO-520 Overhaul Manual.

Magneto timing adjusted to 22 Degrees BTDC in accordance with the TCM Data plate inscription and TCM MSB94-8D dated 02/17/2010 Table II for TSIO-520-R.

Work performed by Doug Kail, Robert Batterman and David Carter.

I certify this aircraft has been inspected in accordance with an Annual Inspection and found airworthy.

DATE: 01 October, 2015

SIGNED:

Doug Kail, IA: 3360806

Work Order: 6758

Printed by EBIS 3 (datcomedia.com)

REG NO: N727FA
MAKE: Continental
MODEL: TSIO-520-R
S/N: 294070-R



Engine

Tennessee Aircraft Services, Inc.
2313 Technology Center Drive
Jackson, TN 38301
731-424-7227



DATE: November 8, 2017
AFTT: 4109.44
TACH: 16.1

1. Performed Annual inspection with reference to FAR 43 Appendix D.
2. Drained oil sump and took sample for analysis. Installed drain plug with new gasket p/n MS35769-11 and safetied. Removed oil filter and opened for inspection with only minimal metal flakes noted. Installed new filter p/n AA48108-2 and serviced engine with ten quarts of Phillips 20W50 XC and a pint of Camguard.
3. Compression Test: 1-68 2-40 3-70 4-72 5-73 6-75. Master orifice 42.
4. Performed magneto timing check and no problems were found.
5. Borescoped engine cylinders for condition and found all normal.
6. Spark plugs removed, cleaned, resistance checked, inspected, gapped, ops checked and reinstalled with new gaskets.
7. Fuel servo inlet screen removed, cleaned, inspected and reinstalled with new gasket p/n. 649983 and safetied. Leak check good. Installed (1) 649983 - gasket (fuel control).
8. Check for last date and time of 500 hour magneto inspection.
9. Reshaped left engine baffle and added RTV for proper engine cooling.
10. Cleaned and inspected Gami injectors on left side of engine. Leak check was good. Installed (2) 640612 - WASHER. Installed (3) 633958-3 - Packing.
11. Install breeze clamp on #3 exhaust nser to cover old EGT probe hole.
12. Adjusted high side fuel flow pressure to 33 psi per manufacturers specifications.

I certify that this aircraft has been inspected in accordance with an Annual Inspection and was determined to be in Airworthy condition.

Signed:

Kail, Doug. A&P IA: 3360806

Date: November 8, 2017
Work Order: 8116

Dispatch Aviation LLC
9548 Veterans Memorial Blvd. Hangar 29
Baton Rouge, LA 70807

DAT

N727FA Engine Log Entry 02/14/2020 Page 1 of 1

**Cessna T210K serial #21059414 Hour meter: 21.8; Tach: 19.1
Continental TSIO-520-R9B serial #294070-R Tach: 19.1; TSO: 1547.94**

Complied with a 100 Hour Inspection in conjunction with an Annual Inspection of above described aircraft. Change oil and filter, serviced with Phillips 20W/50 oil. Check magneto to engine timing. Clean, gap and test spark plugs. Performed ground run and leak check with no leaks noted and performance satisfactory.

Compression: #1 72/80 #2 51/80 #3 68/80 #4 68/80 #5 70/80 #6 66/80 P.O.D. 47 psi

I CERTIFY THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH a 100 Hour INSPECTION AND IS APPROVED FOR A RETURN TO SERVICE. DETAILS ON FILE THIS FACILITY UNDER WO #1004.

**DATE 2/14/2020 Authorized Signature 
Larry R. Woodson / A&P 3420756 IA**

Dispatch Aviation LLC
9548 Veterans Memorial Blvd. Hangar 29
Baton Rouge, LA 70807

N727FA Engine Log Entry 02/02/2021 Page 1 of 1

**Cessna T210K serial #21059414 Hour meter: 23.1; Tach: 19.7
Continental TSIO-520-R9B serial #294070-R Tach: 19.7; TSO: 1553.0**

Complied with a 100 Hour Inspection in conjunction with an Annual Inspection of above described aircraft. Check magneto to engine timing. Clean, gap and test spark plugs. Replace fuel flow divider diaphragm with new #626536. Performed ground run and leak check with no leaks noted and performance satisfactory.

I CERTIFY THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH a 100 Hour INSPECTION AND IS APPROVED FOR A RETURN TO SERVICE. DETAILS ON FILE THIS FACILITY UNDER WO #1081.

**DATE 2/2/21 Authorized Signature 
Larry R. Woodson / A&P 3420756 IA**

Make:	Continental		Reg No.:	N727FA	
Model:	TSIO-520-R9B		Date:	7/6/2026	
Serial No.:	294070-R		W/O No.:	2767	
AFTT:	4113.34	ENGINE MAINTENANCE ENTRY		Tach:	20.0
		TSFRM:			
		1551.94			

Description of Work Accomplished.

Work Completed:

- * Completed Hot Compression Check as follows: #1=78/80, #2=78/80, #3=78/80, #4=70/80, #5=65/80, #6=70/80
- * Completed Oil & Filter Change. Serviced engine with Phillips X/C 20W50 and AA48109 Oil Filter. Sent Sample to Blackstone Labs for analysis.
- * Adjusted Engine Idle Speed as needed
- * Removed Engine Fuel Pump P/N: 646768-1A1 S/N: B01JA342R and sent to RAM Aircraft (CRS# VA1R551K) under their work order 037828. Reinstalled Fuel Pump after overhaul and rigged REF TCM Guidance
- * Replaced all engine fluid carrying hoses with New
- * Installed New Turbo Oil Line Check Valve P/N: S2361-1
- * Removed LH Magneto P/N: 10-349350-5 S/N: 74466 and sent to Aircraft Magneto Service (A&P 1862854) under their Work Order 63397. Reinstalled same Magneto over overhaul
- * Removed RH Magneto P/N: 10-349350-4 S/N: 74465 and sent to Aircraft Magneto Service (A&P 1862854) under their Work Order 63398. Reinstalled same Magneto over overhaul
- * Installed New #3 Cylinder P/N: 658810A2 S/N: AC25FB970 with new Piston Pin P/N: 630046 and new gaskets
- * Installed New #2 Cylinder P/N: 658810A2 S/N: AC25FB942 with new Piston Pin P/N: 630046 and new gaskets
- * Replaced fuel injector manifold seals P/N: 633958-3 on cylinders 1, 3, 4, and 5. Ops check good
- * Installed all new Exhaust Lifters P/N: SA646277
- * Installed all new Intake Lifters P/N: SA628488

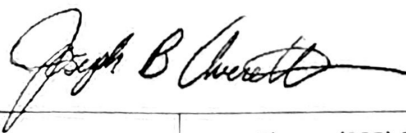
Inspections Completed:

- * Complied with engine 100HR/Annual Inspection REF manufacturer's maintenance manual and current FARs
- * C/W AD 2022-06-03, dated August 15, 2022. Found to be N/A by P/N. No Further Action Required
- * C/W AD 2023-02-12, dated February 17, 2023. Found to be N/A by P/N. No Further Action Required
- * C/W AD 2023-05-16, dated March 5, 2023. Found to be N/A by S/N. No Further Action Required
- * C/W AD 2023-17-04, dated October 26, 2023. Found to be N/A by STC not installed. No Further Action Required

Approval for Return to Service

The article identified above was repaired and inspected in accordance with current FAA regulations and was found to be airworthy and is approved for return to service. Pertinent details of the work performed are on file at this agency under this work order.

Authorized Signature



Joseph B Averett 2740243 IA/AP

Hancock Aviation LLC
4041 Chuck Yeager Avenue
Baton Rouge, LA 70807

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