

ENGINE LOG BOOK

A stylized logo for Continental, featuring the word "CONTINENTAL" in a bold, sans-serif font. The text is contained within a horizontal, slightly curved banner that has a metallic or textured appearance. The banner is flanked by thin, dark lines that extend outwards, suggesting a wing or a tail fin.

CONTINENTAL



Continental Motors

FAA PRODUCTION CERTIFICATE NO. 508

Printed:05/05/2016

Test Date:05/05/2016

This engine model TSI0550K1B, serial number 1032310 was manufactured by Continental Motors, Inc. in accordance with approved design data and the applicable requirements of 14 CFR, Part 21. The approved design data for this engine incorporates all changes required by applicable FAA Airworthiness Directives and Continental Motors Service Bulletins.


CONTINENTAL MOTORS, INC.

Form 6012-03 (Rev Sept 2014)



SKYWARD AVIATION

155 Airport Road
Washington County Airport, AFJ
Washington, PA 15301
(p) 724.222.7799 (f) 724.222.7794
www.skywardaviation.com

ENGINE LOG ENTRY DATED: 07/14/2016
HOBS TIME: 27.2 FLIGHT TIME: 21.9

REG #: N112RN
ENG: TCM TSIO-550-K1B

SERIAL #: SR22T-1369
S/N: 1032310

COMPLIED WITH THE FOLLOWING INSPECTIONS / MAINTENANCE:

- 25 HOUR INITIAL OIL AND OIL FILTER CHANGE. DRAINED OIL, RETAINED OIL SAMPLE FOR ANALYSIS, REMOVED FILTER AND INSPECTED FOR CONTAMINATION, NO DEFECTS NOTED. INSTALLED NEW OIL FILTER P/N: CH48108-1, AND SERVICED WITH 7 QTS PHILLIPS X/C 20W50 ENGINE OIL. RUN UP AND LEAK CHECK OK AT THIS TIME NO DEFECTS NOTED. NEXT DUE AT 71.9 ACTT (FLT TIME)
- 50 HOUR ENGINE INSPECTION
- INSTALLED NEW ADEL CLAMP ON LEFT SIDE IGNITION CABLES TO PREVENT CHAFING.

ALL WORK COMPLETED IN ACCORDANCE WITH CIRRUS DESIGN AIRCRAFT MAINTENANCE MANUAL, CURRENT REVISION. THIS AIRCRAFT HAS BEEN FOUND TO BE IN AIRWORTHY CONDITION AND IS RETURNED TO SERVICE WITH RESPECT TO THE WORK PERFORMED.

MECHANIC, INSPECTOR *Joel A. Glover* JOSHUA J. PERRY, CERTIFICATE # A&P 3115270
FOR SKYWARD AVIATION

ENGINE MODEL:
TSIO550K1B
ENGINE S/N: 1032310
REG. NO: N112RN
WORK ORDER:
4635-07-2016

ADVANCED Fly Advanced

530 Airport Rd.
Lititz, PA 17543
Phone: 717-735-5179

DATE: 8/23/2016
A/C TSN: 36.3
ENG TT: 36.3
HOBS: 45.3

Engine Entries

Removed and replaced the fuel injectors, Installed GAMI injectors, Kit # TIGT550-19C S/N 25728. Performed and fuel system setup IAW the CMM chapter 73-20. All work completed IAW the STC # SE09963SC installation instructions. No change in weight and balance.... C/W SB2X-79-04 Improved Installation of Oil Pressure Sensor... Removed and replaced the oil cooler, installed S/N A11-9345-25.

Maintenance Release

The aircraft and/or component(s) on N112RN was repaired and inspected in accordance with the current rules and regulations of Title 14 of the Code of Federal Regulations, was found Airworthy and was returned to service.

DATE: 8/23/2016

SIGNED: *Joel A. Glover*

Work Order: 4635-07-2016

Joel A. Glover, IA: 2849196AP

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ENGINE MODEL:
TSIO550K1B
ENGINE S/N: 1032350
REG. NO: N325CD
WORK ORDER:
4651-07-2016

ADVANCED Fly Advanced

530 Airport Rd.
Lititz, PA 17543
Phone: 717-735-5179

DATE: 8/30/2016
A/C TSN: 36.3
ENG TT: 21.1
HOBS: 45.7

Engine Entries

Sealed the engine baffle and set mags to 24*.... Re-torqued and safetied the oil temp sensor... Completed a fuel system setup IAW the CMM chapter 73-20.

Maintenance Release

The aircraft and/or component(s) on N325CD was repaired and inspected in accordance with the current rules and regulations of Title 14 of the Code of Federal Regulations, was found Airworthy and was returned to service.

DATE: 8/30/2016

SIGNED: *Richard A. Barnhart II*

Work Order: 4651-07-2016

Richard A. Barnhart II, IA: 3124994AP

Printed by EBis 3 (datcomedia.com)

Date: 12/15/2016; Aircraft: N112RN; Type: CIRRUS SR22T; S/N: 1369; Hobbs: 43.0; Total Time: 43.0
Hobbs Time 54.7, Flight Hobbs 43.0

Engine Work

Changed oil and filter p/n CH48109-1, took sample, cut filter, no metal noted. Serviced engine with 8 qts Phillips 20W50 XC oil. Ground run for ops and leaks check normal. Replaced turbo supply line check valve p/n 646717 with new. Flushed out both turbos, inductions tubes, and cabin heat ducting from both intercoolers through cabin heat exchanger and up to firewall cabin air selector valve. Ground run aircraft, turbo supply line check valve leak checked good.

Dan Stammen
A&P 2636878 IA *Dan Stammen*

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Watertown, WI 53094
920-261-4567

This log entry is not
chronological order.

ENGINE LOG ENTRY DATED: 08/31/2016
HOBS TIME: 47.0 FLIGHT TIME: 37.5

REG #: N112RN
ENG: TCM TSIO-550-K1B

SERIAL #: SR22T-1369
S/N: 1032310

COMPLIED WITH THE FOLLOWING INSPECTIONS / MAINTENANCE:

- 1. REPLACED FUEL INJECTORS FROM PREVIOUSLY INSTALLED GAMI INJECTORS KIT #TIGT550-19C, S/N: 25728. INSTALLED NEW #1 CYLINDER INJECTOR P/N D1 (REMOVED: E1). INSTALLED NEW #4 CYLINDER INJECTOR P/N: F4 (REMOVED: E4). INSTALLED NEW #5 CYLINDER P/N D5 (REMOVED P/N: E5) ALL INJECTORS INSTALLED IAW GAMI STC #SE09963SC INSTALLATION PROCEDURES. COMPLIED WITH GROUND RUN UP AND LEAK CHECK, NO DEFECTS NOTED.

ALL WORK COMPLETED IN ACCORDANCE WITH CIRRUS DESIGN AIRCRAFT MAINTENANCE MANUAL, CURRENT REVISION. THIS AIRCRAFT HAS BEEN FOUND TO BE IN AIRWORTHY CONDITION AND IS RETURNED TO SERVICE WITH RESPECT TO THE WORK PERFORMED.

MECHANIC, INSPECTOR, JOSHUA J. FERRY, CERTIFICATE #: A&P 3115270
FOR SKYWARD AVIATION

This log entry is not in chronological order. See prior log entry at the bottom of the prior page.

March 3, 2017

N112RN	CIRRUS SR22T	S/N 1369	Flight 57.6 Hrs	Hobbs 73.8 Hrs
Continental	TSIO 550K	S/N 1032310	Flight 57.6 Hrs	Hobbs 73.8 Hrs
Hartzell		S/N	Flight 57.6 Hrs	Hobbs 73.8 Hrs

Removed cowling. Replaced factory original starter p/n C24ST3, s/n 4C3-091649, with new Tempest starter, p/n PL13484, s/n 1601735. Reinstalled cowling. (Refer to Job #112RN1 for details.) Weight and Balance updated March 3, 2017.

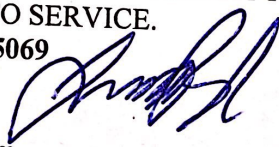
THIS AIRCRAFT ENGINE/PROPELLER COMBINATION WAS INSPECTED AND/OR WAS REPAIRED IN ACCORDANCE WITH CURRENT REGULATIONS OF THE FAA AND IS APPROVED FOR RETURN TO SERVICE.

JIM BARKER A&P/IA 2755069

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Date: 4/14/2017; Aircraft: N112RN; Type: CIRRUS SR22T; S/N: 1369; Hobbs: 74.9; Total Time: 74.9

Hobbs Time 93.1, Flight Hobbs 74.9

Engine Work

Changed oil and filter p/n Ch48109-1, took sample, cut filter, no metal noted. Serviced engine with 8 qts Phillips 20W50 oil. Ground run for ops and leaks check normal.

Alec Tepps
A&P 3878167



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Date: 10/30/2017; Aircraft: N22B; Type: CIRRUS SR22T; S/N: 1369; Hobbs: 135.6; Total Time: 135.6

Engine Work

Changed oil and filter p/n CH48109-1, took sample, cut filter, no metal noted, serviced engine with 8 qts.
Phillips 20W50 XC oil. Ground run for ops and leak ck normal.

Doug Seibel
A&P389765035 IA

Doug A389765035

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Date

Hours

Min

Hours

Min

Special Inspections, Modifications and Service Bulletins

Commod forward

January 18, 2018

N22B
Continental
Hartzell

CIRRUS SR22T S/N 1369
TSIO 550K S/N 1032310
PHCJ3Y1F S/N NJ1328B

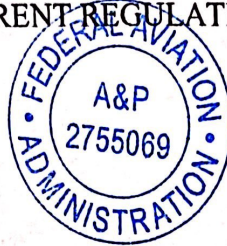
Flight 156.2 Hrs
Flight 156.2 Hrs
Flight 156.2 Hrs

Hobbs 187.4 Hrs
Hobbs 187.4 Hrs
Hobbs 187.4 Hrs

Performed ground run. Removed cowling. Performed Borescope survey of all cylinders; found satisfactory. Removed spark plugs; installed 12 new Tempest fine wire spark plugs, P/N URHB32S. Adjusted magneto-to-engine timing from left @ -1.75° and from right @ -2.25° of nominal of 24° BTDC to both at 24° BTDC. Removed electric fuel pump and installed turbo overhauled fuel pump, P/N 5217-00-3, S/N 7028. Performed ground run and leak check; found satisfactory. Reinstalled cowling. (Refer to Job #22B2 for details.)

THIS AIRCRAFT ENGINE/PROPELLER COMBINATION WAS INSPECTED AND/OR WAS REPAIRED IN ACCORDANCE WITH CURRENT REGULATIONS OF THE FAA AND IS APPROVED FOR RETURN TO SERVICE

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Date: 3/23/2018; Aircraft: N22B; Type: CIRRUS SR22T; S/N: 1369; Hobbs: 168.4; Total Time: 168.4

Engine

Changed oil and filter p/n Ch48109-1, took sample, cut filter, no metal noted. Serviced engine with 8 qts Phillips 20W50 oil. Ground run for ops and leaks check normal.

Randall Effinger
A&P 3439510 IA

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Date: 5/18/2018; Aircraft: N22P; Type: CIRRUS SR22T; S/N: 1369; Hobbs: 199.5; Total Time: 199.5

Engine

Changed oil and filter p/n CH48109-1, took sample, cut filter, no metal noted. Serviced engine with 8 qts Phillips 20w50 oil. Ground run for ops and leaks check normal.

Doug Seibel
A&P389765035 IA

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Date: 6/05/2018; Aircraft: N22P; Type: CIRRUS SR22T; S/N: 1369; Hobbs: 202.5; Total Time: 202.5

Engine

Removed fuel pump, p/n 649368-60A7 s/n B16CA076 and installed new fuel pump, p/n 649368-60A7, s/n B16HA021. Set up fuel flow and pressures in reference to TCM M O manual and Cirrus SR22T AMM. Performed ground run, operational, and leak checks - no defects noted.

Randall Effinger
A&P 3439510 IA

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July 18, 2018

N22P

Continental

CIRRUS SR22T S/N 1369

Flight 207.5 Hrs

Hobbs 253.1 Hrs

TSIO 550K S/N 1032310

Flight 207.5 Hrs

Hobbs 253.1 Hrs

Removed cowling. Removed oil filter. Removed engine driven fuel pump assembly and replaced with repaired unit, P/N 649368-60A7, S/N B16IA062 repaired by Great Planes Fuel Metering, Inc. under WO #18-376. Performed ground run and adjusted idle mixture rpm and high fuel flow. Adjusted manifold pressure up .3". Adjusted oil pressure up 3/4 turn. Added 2 quarts of 20W50XC oil and installed new Tempest oil filter, P/N AA48108-2. Removed upper deck reference hoses to engine driven fuel pump and replaced with new, P/N AE3663161E0131 and P/N AE3663161E0246. Adjusted electric fuel boost pump flow IAW verbal instructions from CJ Aviation. Performed ground run and leak check; found satisfactory. Installed cowling. (Refer to Job #22P1 for details.)

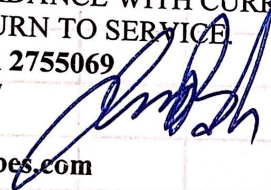
THIS AIRCRAFT ENGINE/PROPELLER COMBINATION WAS INSPECTED AND/OR WAS REPAIRED IN ACCORDANCE WITH CURRENT REGULATIONS OF THE FAA AND IS APPROVED FOR RETURN TO SERVICE.

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Wo: 1977

Engine - page 1 of 1



Sweet Aviation - 902 W. Ludwig Rd - Fort Wayne, IN 46825 - (260) 267-5505

N22P
Tach: 302.5

Continental, TSIO-550-K1B, S/N: 1032310
TTSN: 302.5 Hobbs: 362.5

April 12, 2019
TTSN: 362.5

1. Reduced idle speed to 650 RPM, enriched idle mixture for a 30 RPM rise, reduced slope controller pressure for 36.5 MP in climb, and reduced metered fuel pressure for 40 GPH IAW Cirrus AMM 73-20 and using CAT M-0 as a guide.
2. Test flew aircraft. Full throttle, full mixture climb (boost pump OFF, however POH recommends ON) from 840-17,500 ft. yielded 36.4-36.6 MP & 40.0-40.2 GPH for the full duration of the climb. Boost pump on "Low" after leveling off for 20 mins as the fuel cooled down (POH recommends operating boost pump during takeoff, climb, and until 30 mins at cruise altitude) and then pump was turned off with no ill affects and the airplane performed normally.

Russ Moriarity A&P IA 3804509

A handwritten signature in black ink, appearing to read "Russ Moriarity", is written over a horizontal line.

Date	Total Time		Time Since Last Overhaul		Engine	Record maintenance actions installation and compliance with inspections
	Hours	Min	Hours	Min		
Carried forward	<p>wo: 2106</p> <p align="center">Sweet Aviation <small>Owner Flight Training Aircraft Rental Maintenance</small> Sweet Aviation - 902 W. Ludwig Rd - Fort Wayne, IN 46825 - (260) 267-5505</p> <p align="right">July 11, 2019 TTSN: 403.2</p> <p>N22P Tach: 338.2 Continental, TSIO-550-K1B, S/N: 1032310 TTSN: 338.2 Hobbs: 403.2</p> <ol style="list-style-type: none"> 1. Serviced engine with 7 Qts. Phillips XC 20w-50 and CH48108-1 filter. 2. Split old filter to inspect, no defects noted. 3. Oil sample collected and sent to Blackstone for analysis. 4. Engine ran on ground, no defects noted. <p>With respect to the work performed, this engine is approved for return to service. Details of work performed are on file with Sweet Aviation under work order: 2106.</p> <p align="right"><i>Darrin Schwartz</i></p> <p>Darrin Schwartz A&P IA 3619852</p>					Engine - page 1 of 1
	<p>wo: 2193</p> <p align="center">Sweet Aviation <small>Owner Flight Training Aircraft Rental Maintenance</small> Sweet Aviation - 902 W. Ludwig Rd - Fort Wayne, IN 46825 - (260) 267-5505</p> <p align="right">September 5, 2019 TTSN: 412.5</p> <p>N22P Tach: 346.0 Continental, TSIO-550-K1B, S/N: 1032310 TTSN: 346.0 Hobbs: 412.5</p> <ol style="list-style-type: none"> 1. Engine compressions checked. All values /80: 1=68, 2=74, 3=71, 4=66, 5=68, 6=70. 2. Spark plugs cleaned, inspected, and rotated. 3. Magneto timing checked. 4. Engine run on ground. No defects noted. <p>I certify that this engine has been inspected in accordance with an ANNUAL inspection and found to be in an airworthy condition. With respect to the work performed, this engine is approved for return to service. Details of work performed are on file with Sweet Aviation under work order: 2193.</p> <p align="right"><i>Darrin Schwartz</i></p> <p>Darrin Schwartz A&P IA 3619852</p>					Engine - page 1 of 1

Date: 11/13/2019; Aircraft: N22P; Type: CIRRUS SR22T; S/N: 1369; Hobbs: 371.7; Total Time: 371.7
 Flt: 371.7 Hobbs: 441.6.

Engine

Changed oil and filter p/n CH48108-1, took Blackstone oil sample, cut filter, no metal noted. Serviced engine with 8 qts X/C 20W50 Phillips oil. Ground run for operational and leak check normal.

Robert Heideman
 AP 3759187

RAJ2

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