

ENGINE LOG BOOK



1-888-828-5465 Toll free in the USA
1-251-438-8299 International

Engine Returns

Return engines for core credit with this log book to:
Continental Motors, Inc.
2039 Broad Street
Mobile, AL 36615 USA

Return engines for overhaul with this log book to:
Mattituck Services
410 Airway Drive
Mattituck, NY 11952 USA

**USE ONLY FUEL CONFORMING TO ASTM D910
USE OF AUTOMOTIVE FUEL IS PROHIBITED**



Continental Motors, Inc.

Production Certificate 508

Printed: 10/16/2013

Test Date: 10/16/2013

This engine model TS10550K1B , serial number 1009180 was manufactured by 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 Continental Motors Service Bulletins.

Thomas Howard

12760 EAST
N998DF
11 April 2014
Completed 25 Hou
Changed engine oil
contaminates noted
Cleaned, inspected
Inspected magneto
system for leakage
door for security a
Inspected engine
Lubricated and ins
Inspected engine o
operational and le
Alle

12760 EAST
N998DF
30 May 2014
Changed engine
contaminates no
and leakage che
Alle

12760 EAST
N998DF
4 September 2
100 Hour Insp
a guide. Comp
engine oil and
contaminates r
plugs. Checke
Inspected fuel
Inspected engi
obstructions.
condition and
and security.
exhaust system
using Mouse
and induction
lubricated thr
fuel flow as n
with Cirrus
transition for
change or Fl
up, leak chec
INSPECTED
TO BE IN A
Alle

**USE ONLY FUEL CONFORMING TO ASTM D910
USE OF AUTOMOTIVE FUEL IS PROHIBITED**



Continental Motors, Inc.

Production Certificate 508

Printed: 10/16/2013

Test Date: 10/16/2013

This engine model TSI0550K1B , serial number 1009180 was manufactured by 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 Continental Motors Service Bulletins.

Thomas Howard

Engine Service and Maintenance Record

Record maintenance actions including engine part removal and installation and compliance with inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins

Total Time

Time Since Last Overhaul

Date

Hours

Min

Hours

Min

ARAPAHOE AERO

12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386

N998DF Continental TSIO-550-K(1B) S/N: 1009180 Total Time: 25.5

11 April 2014 Flight Hobbs: 25.5 Hobbs Meter: 33.1

Completed 25 Hour Servicing this date using the Cirrus Maintenance Interval Checklist Form as a guide. Changed engine oil and filter using (Phillips X/C 20W-50). Cut oil filter open and inspected, no ferrous contaminants noted. Compression test: #1) 76/80, #2) 77/80, #3) 76/80, #4) 78/80, #5) 77/80, #6) 78/80. Cleaned, inspected, gapped, tested, and rotated spark plugs. Checked timing of magnetos to engine. Inspected magnetos, ignition harness and ignition leads for condition and security. Inspected fuel injection system for leakage and component condition and security. Inspected induction system and alternate air door for security and operation. Inspected cylinder drains and engine case breather tube for obstructions. Inspected engine case and oil lines for leakage. Inspected engine exhaust system, no defects noted. Lubricated and inspected throttle, mixture and propeller governor controls, operational check good. Inspected engine compartment installation hardware for security. Post inspection engine ground run-up, operational and leakage check satisfactory.

L. John Wells A&P 3221132

w/o 34242

ARAPAHOE AERO

12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386

N998DF Continental TSIO-550-K(1B) S/N: 1009180 Engine Log Entry

30 May 2014 Flight Hobbs: 52.3 Hobbs Meter: 70.8

Changed engine oil and filter using (Phillips X/C 20W50). Cut oil filter open and inspected, no ferrous contaminants noted. Oil sample taken and submitted. Post maintenance engine ground run-up, operational and leakage check satisfactory.

L. John Wells A&P 3221132

w/o 34413

Changed engine oil and filter using (Phillips X/C 20W50). Cut oil filter open and inspected, no ferrous contaminants noted. Oil sample taken and submitted. Post maintenance engine ground run-up, operational and leakage check satisfactory.

L. John Wells

L. John Wells A&P 3221132

w/o 34413

ARAPAHOE AERO

12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386

N998DF Continental TSIO-550-K(1B) S/N: 1009180 Total Time: 93.2

4 September 2014 Flight Hobbs: 93.2 Hobbs Meter: 128.2

100 Hour Inspection completed this date using the Cirrus SR22 Maintenance Interval Inspection Form as a guide. Compression test: #1) 70/80, #2) 75/80, #3) 73/80, #4) 78/80, #5) 70/80, #6) 75/80. Changed engine oil and filter using (Phillips X/C 20W-50). Cut oil filter open and inspected, no abnormal contaminants noted. Oil sample taken and submitted. Cleaned, inspected, gapped, tested, and rotated spark plugs. Checked timing of magnetos to engine. Inspected ignition harness for condition and security. Inspected fuel injection system for component condition and security. Leak checked fuel system. Inspected engine case and oil lines for leakage. Inspected cylinder drains and engine case breather tube for obstructions. Inspected cooling baffles and seals for condition and security. Inspected #1 alternator for condition and security. Inspected air conditioning compressor, lines and system for component condition and security. Inspected exhaust heat shields for condition and security. Inspected and pressure tested exhaust system. Inspected turbochargers and wastegate for condition and security and lubricated wastegate using Mouse Milk. Inspected induction system and alternate air door for security and operation. Inspected and induction air filters. Inspected engine compartment installation hardware for security. Inspected and lubricated throttle, mixture and propeller governor controls, operational check good. Adjusted "high-end" fuel flow as needed. Adjusted propeller governor "high" RPM setting and installed new safety. Complied with Cirrus (SA) No. SA 13-01 (Exhaust Crack Inspection) by visually inspection the left turbocharger transition for cracks as outlined in Service Advisory, no defects noted. Next inspection due at next oil change or Flight Hobbs: 143.2. AD's checked through Biweekly 2014-17. Post inspection ground run-up, leak check and operational check good. **I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 HOUR INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION.**

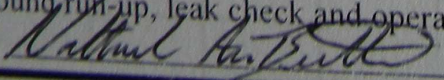
Jason Daniel Schaaf

Jason Daniel Schaaf A&P 3551738

w/o 34771

Date	Total Time		Time Since Last Overhaul		<i>Engine Service and Maintenance Record</i>
	Hours	Min	Hours	Min	
Record maintenance actions including engine part removal and installation and compliance with inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins					
Carried forward →					

ARAPAHOE AERO
 12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386
N998DF Continental TSIO-550-K S/N: 1009180 Total Time: 0105.8
19 September 2014 Flight Hobbs: 0105.8 Hobbs Meter: 0146.0
 Adjusted fuel flow as needed.
 L. John Wells A&P 3221132 w/o 34829

ARAPAHOE AERO
 12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386
N998DF Continental TSIO-550-K S/N: 1009180 Total Time: 121.8
10 October 2014 Flight Hobbs: 121.8 Hobbs Meter: 164.3
 Changed engine oil and filter using (Phillips X/C 20W-50). Cut oil filter open and inspected, no abnormal contaminants noted. Oil sample taken and submitted. Replaced oil seal in air conditioner drive pulley. Ground run-up, leak check and operational check good.
 Nathaniel Alan Beuthel A&P 3659835 w/o 34902

ARAPAHOE AERO
 12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386
N998DF Continental TSIO-550-K S/N: 1009180 Total Time: 121.8

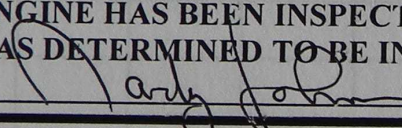
10 October 2014 Flight Hobbs: 121.8 Hobbs Meter: 101.8
Changed engine oil and filter using (Phillips X/C 20W-50). Cut oil filter open and inspected, no abnormal
contaminates noted. Oil sample taken and submitted. Replaced oil seal in air conditioner drive pulley.
Ground run-up, leak check and operational check good.
Nathaniel Alan Beuthel Nathaniel Alan Beuthel A&P 3659835 w/o 34902


ARAPAHOE AERO

12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386
N998DF Continental TSIO-550-K(1B) S/N: 1009180 Total Time: 145.0

12 December 2014 Flight Hobbs: 145.0 Hobbs Meter: 194.4
100 Hour Inspection for Annual completed this date using the Cirrus SR22T Scheduled Maintenance Report as a guide. Compression test: #1) 60/80, #2) 74/80, #3) 70/80, #4) 76/80, #5) 66/80, #6) 78/80. Changed engine oil and filter using (Phillips X/C 20W-50). Cut oil filter open and inspected, no contaminates noted. Oil sample taken and submitted. Cleaned, gapped, tested, and rotated spark plugs. Retimed right magneto to engine. Cleaned and resealed fuel injection nozzles. **Next fuel injection nozzle servicing due Flight Hobbs: 445.0.** Inspected fuel injection system for component condition and security. Leak checked fuel system. Inspected cooling baffles and seals for condition and security. Inspected alternators for condition and component security. Inspected air conditioning compressor and system components for condition and security. Inspected inter coolers for condition and security. Installed new left intercooler inboard nut-plate fastener. Inspected and pressure tested exhaust system. Inspected turbochargers and wastegate for component security and lubricated wastegate using Mouse Milk. Inspected, cleaned and reinstalled induction air filters. Inspected and lubricated engine, mixture and propeller governor controls, operational check good. Inspected Tanis engine preheat system for component condition and security, operational check good. Complied with **Cirrus (SA) No. SA 11-01 (Alternator Brush Inspection)** by removing #1) alternator brush holder and inspecting brush assemblies per Continental (SB) No. SB11-2, no defects noted. **Next inspection due December 2015.** Complied with **Cirrus (SA) No. SA 13-01 (Exhaust Crack Inspection)** by visually inspecting the left turbocharger transition for cracks as outlined in Service Advisory, no defects noted. **Next inspection due at scheduled oil change.** Complied with **Cirrus (SA) No. SA 13-06 (Aneroid Equipped Fuel Pumps)** by inspecting installed fuel pump per Continental (CSB) No. SB13-4A, installed fuel pump not affected by date of manufacture or serial number as listed in (CSB), no further action required. Complied with **Cirrus (SB) No. SB No. 2X-71-25 (Intercooler Flange Stiffener)** by installing left and right intercooler flange stiffeners P/N: 31796-001 and -002 per Service Bulletin, required stiffeners are installed, no further action required. Complied with **Continental SIL14-4 (Alternator Brace Alignment)** by inspecting belt-driven alternator and bracket for condition and proper alignment per Service Letter and installed required shims as needed, no further action required.

Date	Total Time		Time Since Last Overhaul		<i>Engine Service and Maintenance Record</i>
	Hours	Min	Hours	Min	
Record maintenance actions including engine part removal and installation and compliance with inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins					
Carried forward →					

ARAPAHOE AERO
 12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386
N998DF Continental TSIO-550-K(1B) S/N: 1009180 Total Time: 145.0
12 December 2014 Flight Hobbs: 145.0 Hobbs Meter: 194.4
 (Continued) (Page 2)
Continental AD 2012-03-06 (AFS) Fuel Servo Diaphragm effective 02-24-2012, supersedes AD 2011-15-10, does not apply, (TCM) fuel injection system is installed, no further action required. **Continental AD 2012-10-13 (Starter Adapter Failure)** effective 06-08-2012, does not apply, engine not Turbo-normalized by installing STC SE10589SC, no further action required. AD's checked through Biweekly 2014-24. Post inspection ground run-up, leak check and operational check good. **I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 HOUR INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION.**

 Randy Johnson A&P 3123186 w/o 35093

ARAPAHOE AERO
 12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386
N998DF Continental TSIO-550-K S/N: 1009180 Total Time: 155.7
18 February 2015 Flight Hobbs: 155.7 Hobbs Meter: 208.7
 Lapped exhaust valves and seats on cylinders #1 and #5. Cold compressions: #1 72/80 and #5 74/80. Installed new camloc stud in right forward top cowl. Ground run-up, leak check and operational check good.

 L. John Wells A&P322132 w/o 35120

ARAPAHOE AERO
 12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386

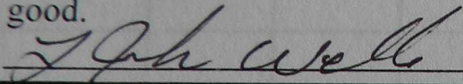
ARAPAHOE AERO

12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386

N998DF Continental TSIO-550-K S/N: 1009180 Total Time: 155.7

18 February 2015 Flight Hobbs: 155.7 Hobbs Meter: 208.7

Lapped exhaust valves and seats on cylinders #1 and #5. Cold compressions: #1 72/80 and #5 74/80. Installed new camloc stud in right forward top cowl. Ground run-up, leak check and operational check good.



L. John Wells A&P322132

w/o 35120

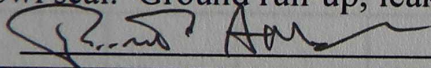
ARAPAHOE AERO

12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386

N998DF Continental TSIO-550-K S/N: 1009180 Total Time: 179.9

29 April 2015 Flight Hobbs: 179.9 Hobbs Meter: 242.3

Changed engine oil and filter using (Phillips X/C 20W-50). Cut oil filter open and inspected, no abnormal contaminants noted. Oil sample taken and submitted. Adjusted idle mixture as needed. Replaced top cowl seal. Ground run-up, leak check and operational check good.



Alberto Pizzato A&P 2522916

w/o 35548

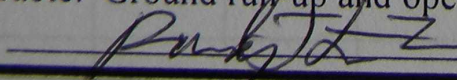
ARAPAHOE AERO

12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386

N998DF Continental TSIO-550-K S/N: 1009180 Total Time: 189.9

21 May 2015 Flight Hobbs: 189.9 Hobbs Meter: 255.6

Replaced ring connector on #2 alternator main power wire. Repositioned main power wire to create slack in cable. Ground run-up and operational check good.



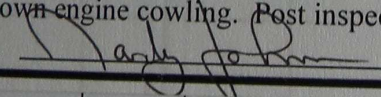
Randy J. Knox, Jr. A&P 3227973

w/o 35613

Date	Total Time		Time Since Last Overhaul		<i>Engine Service and Maintenance Record</i>
	Hours	Min	Hours	Min	
Record maintenance actions including engine part removal and installation and compliance with inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins					
Carried forward →					

ARAPAHOE AERO

12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386
N998DF Continental TSIO-550-K(1B) S/N: 1009180 Engine Log Entry
17 June 2015 Flight Hobbs: 196.1 Hobbs Meter: 265.3
Completed 50 Hour Servicing this date using Cirrus 50 Hour Interval Inspection Checklist as a guide. Changed engine oil and filter (**Phillips X/C 20W-50**). Cut oil filter open and inspected, no ferrous contaminants noted. Oil sample taken and submitted. Inspected magnetos and ignition leads for condition and security. Inspected fuel injection system for leakage and component condition and security. Inspected cylinder drain lines for obstructions. Checked oil lines for security. Inspected engine case and oil lines for leakage. Inspected engine exhaust system, no defects noted. Inspected engine compartment installation hardware for security. Checked lubrication and operation of throttle and mixture. Inspected and wiped down engine cowling. Post inspection engine ground run-up, operational and leakage check good.

 **Randy Johnson A&P 3123186 w/o 35701**

ARAPAHOE AERO

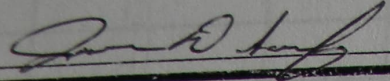
12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386
N998DF Continental TSIO-550-K S/N: 1009180 Total Time: 0217.2
15 September 2015 Flight Hobbs: 0217.2 Hobbs Meter: 0293.5
 Changed engine oil and filter using (**Phillips X/C 20W-50**). Cut oil filter open and inspected, no abnormal contaminants noted. Oil sample taken and submitted. Ground run-up, leak check and operational check good.

 **Jason Daniel Schaaf A&P 3551738 w/o 36004**

ARAPAHOE AERO

12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386
N998DF Continental TSIO-550-K(1B) S/N: 1009180 Total Time: 237.2
1 January 2016 Flight Hobbs: 237.2 Hobbs Meter: 237.2
 100 Hour Interval Inspection

N998DF Continental TSIO-550-K S/N: 1009180 Total Time: 0217.2
15 September 2015 Flight Hobbs: 0217.2 Hobbs Meter: 0293.5
Changed engine oil and filter using (Phillips X/C 20W-50). Cut oil filter open and inspected, no abnormal
contaminates noted. Oil sample taken and submitted. Ground run-up, leak check and operational check
good.


Jason Daniel Schaaf A&P 3551738

w/o 36004

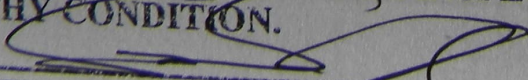
ARAPAHOE AERO

12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386

N998DF Continental TSIO-550-K(1B) S/N: 1009180 Total Time: 237.2

1 January 2016 Flight Hobbs: 237.2 Hobbs Meter: 323.0

100 Hour Inspection for Annual completed this date using the Cirrus SR22T Scheduled Maintenance Report as a guide. Performed compression test: #1) 60/80, #2) 75/80, #3) 60/80, #4) 75/80, #5) 40/80, #6) 70/80. Lapped #5) cylinder exhaust valve, reinstalled valve rocker assembly using new lockwasher P/N: 501868 and reinstalled valve rocker cover using new gasket P/N: 655705. Changed engine oil and filter using (Phillips X/C 20W-50). Cut oil filter open and inspected, no contaminants noted. Oil sample taken and submitted. Cleaned, gapped, tested, and rotated spark plugs. Checked timing of magnetos to engine. Inspected ignition harness and leads for condition and security. Inspected fuel injection system for component condition and security. Leak checked fuel system with electric pump on high and operated mixture, no defects noted. Applied anti-chafe material to cooling baffle forward of #5) cylinder to prevent further chafing. Inspected alternators for condition and component security. Inspected air conditioning compressor and system components for condition and security. Inspected and pressure tested exhaust system. Inspected turbochargers and wastegate for component security. Inspected, cleaned and reinstalled induction air filters. Inspected and lubricated engine and mixture controls, operational check good. Inspected Tanis engine preheat system for component condition and security. Cleaned affected areas and installed new Tanis preheat placard "sticker" P/N: TU02615-115 operational check good. Complied with Cirrus (SA) No. SA 11-01 (Alternator Brush Inspection) by removing #1) alternator brush holder and inspecting brush assemblies per Continental (SB) No. SB11-2. Inspected slip rings and installed new brush assembly P/N: ALE1013AS, no further defects noted. Next inspection due January 2017. Complied with Cirrus (SA) No. SA 13-01 (Exhaust Crack Inspection) by visually inspecting the left turbocharger transition for cracks as outlined in Service Advisory, no defects noted. Next inspection due at scheduled oil change. AD's checked through Biweekly 2015-26. Post inspection ground run-up, leak check and operational check good. **I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 HOUR INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION.**


Scott S. Fisher A&P 3290363

w/o 36281

ARAPAHOE AERO

12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386

Date

N998DF Continental TSIO-550-K(1B) S/N: 1009180 Engine Log Entry

10 March 2016 Flight Hobbs: 266.4 Hobbs Meter: 361.9

Completed 50 Hour Servicing this date using Cirrus 50 Hour Interval Inspection Checklist as a guide. Changed engine oil and filter (Phillips X/C 20W-50). Cut oil filter open and inspected, no ferrous contaminates noted. Oil sample taken and submitted. Inspected magnetos and ignition leads for condition and security. Inspected fuel injection system for leakage and component condition and security. Inspected cylinder drain lines for obstructions. Checked oil lines for security. Inspected engine case and oil lines for leakage. Inspected engine exhaust system, no defects noted. Replaced right hand intercooler heat duct routed to the wye. Inspected engine compartment installation hardware for security. Checked lubrication and operation of throttle and mixture. Inspected and wiped down engine cowling. Post inspection engine ground run-up, operational and leakage check good.

Carried for

Nathaniel Alan Beuthel

Nathaniel Alan Beuthel A&P 3659835 w/o 36555

ARAPAHOE AERO

12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386

N998DF Continental TSIO-550-K(1B) S/N: 1009180 Engine Log Entry

22 June 2016 Flight Hobbs: 276.1 Hobbs Meter: 377.3

Adjust manifold pressure and high end fuel flow as needed. No further discrepancies noted.

L. John Wells

L. John Wells A&P 3221132 w/o 36892