

# ENGINE LOG BOOK





Return engines for overhaul with this log book to:

Continental Motors, Inc.

Factory Service Center

8600 County Road 32

Fairhope, Alabama 36532 USA

**USE ONLY FUEL SPECIFIED IN OPERATOR'S  
MANUAL OR TYPE CERTIFICATE DATA SHEET  
USE OF AUTOMOTIVE FUEL IS PROHIBITED**



**Continental Motors, Inc.**

**Production Certificate 508**

**Printed: 7/8/2014**

**Test Date: 7/8/2014**

**This engine model TSI0550K1B , serial number 1010597 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*



Date

ENGINE MODEL: TSIO 550 K  
ENGINE S/N: 1010597  
REG. NO: N416KS  
WORK ORDER: 16369-08-2014



### Cirrus Design Factory Service Center

Repair Station No. YD5R855Y  
4961 Airport Road  
Duluth, MN 55811  
Phone: 218-788-3438

DATE: 8/28/2014  
A/C TSN: 3.1  
ENG TT: 3.1  
FLIGHTTIME: 3.1

#### Engine Entries

- (2) Timed magnetos IAW CMI M-18. Operational check good.
- (3) Installed new p/n 657496 Vernatherm with new p/n 625966 Gasket in oil cooler IAW CMI M-18. Operational and leak check good.

I have reviewed the file on this aircraft and the accompanying discrepancy forms. The aircraft, airframe, aircraft engine, propeller or appliance identified was repaired/inspected in accordance with current requirements of the Federal Aviation Administration and is approved for return to service. Pertinent details of this work order are on file at this Certified Repair Station CRS YD5R855Y.

DATE: 8/28/2014

SIGNED:

Work Order: 16369-08-2014

Stephen Dodd  
Certified Repair Station No. YD5R855Y

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ENGINE MODEL: TSIO 550 K  
ENGINE S/N: 1010597  
REG. NO: N416KS  
WORK ORDER: 16423-09-2014



### Cirrus Design Factory Service Center

Repair Station No. YD5R855Y  
4961 Airport Road  
Duluth, MN 55811  
Phone: 218-788-3438

DATE: 9/17/2014  
A/C TSN: 22.6  
ENG TT: 22.6  
FLIGHTTIME: 22.6

#### Engine Entries

- (5) Performed CMI 25 hour inspection IAW TCM ICA.
- (8) Changed engine oil and filter, Champion CH48108-1, P/N 50857-001. Serviced engine with 8 quarts of Aeroshell 15W-50 engine oil. Performed particulate inspection on old filter, checked satisfactory. Performed operational and leak checks. Op's and leak checks good. All work was accomplished I.A.W. Cirrus SR22 A.M.M. 12-10.

I have reviewed the file on this aircraft and the accompanying discrepancy forms. The aircraft, airframe, aircraft engine, propeller or appliance identified was repaired/inspected in accordance with current requirements of the Federal Aviation Administration and is approved for return to service. Pertinent details of this work order are on file at this Certified Repair Station CRS YD5R855Y.

DATE: 9/17/2014

SIGNED:

Work Order: 16423-09-2014

Steve LaMourea  
Certified Repair Station No. YD5R855Y

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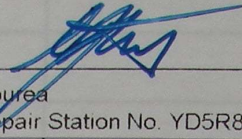




I have reviewed the file on this aircraft and the accompanying discrepancy forms. The aircraft, airframe, aircraft engine, propeller or appliance identified was repaired/inspected in accordance with current requirements of the Federal Aviation Administration and is approved for return to service. Pertinent details of this work order are on file at this Certified Repair Station CRS YD5R855Y.

DATE: 9/17/2014

SIGNED:



Steve LaMourea  
Certified Repair Station No. YD5R855Y

Work Order: 16423-09-2014

Printed by EBis 3 (datcomedia.com)

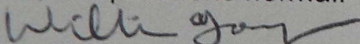


**Executive Flyers Aviation**  
**(781) 274-7477**

10/1/2014 W/O: 14-1563 N416KS Flight Time: 54.6

SR22T 0854

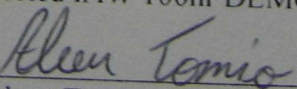
Performed CMI 50 hour inspection IAW TCM ICA.  
Changed engine oil and filter. Serviced engine with 8 quarts of Aero shell 15W-50 engine oil and installed a new CH48108-1 oil filter, Torqued and safetied.. Oil filter was cut open; the element was checked for contaminants. Ran engine, all operations normal. All work was accomplished IAW Cirrus SR22T A.M.M 12-10.

  
William Young AP 3680514 IA

11-10-2014 Tach104.3 TTE104.3 N416KS WO: 14-1587

Complied with a 100 Hr Demo inspection IAW TCM ICA. Compression check are as follows, 1-70, 2-74, 3-72, 4-72, 5-74, 6-68. Drained the oil, removed oil filter and inspected for contaminants, none noted. Installed new oil filter p/n CH48108-1, torqued and safetied. Serviced engine w/ 8 qts of Aeroshell 15W-50 oil. Removed and cleaned fuel injector nozzles, then installed nozzles with new gaskets/o-rings, torqued and safetied. Serviced spark plugs then installed w/ new gaskets, torqued and safetied. Checked mag timing. Visually inspected engine compartment, oil line and fittings for leaks. Ground ran engine. Leak check satisfactory. I certify that this engine has been inspected IAW 100hr DEMO Inspection and found to be in airworthy condition.

*Executive Flyers Aviation*

  
Alceu Tomio A&P 3336676



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

Carried f

ENGINE MODEL: TSIO 550 K  
ENGINE S/N: 1010597  
REG. NO: N416KS  
WORK ORDER: 16688-01-2015



**Cirrus Design Factory Service Center**

Repair Station No. YD5R855Y  
4961 Airport Road  
Duluth, MN 55811  
Phone: 218-788-3049

DATE: 1/20/2015  
A/C TSN: 131.5  
ENG TT: 131.5  
FLIGHTTIME: 131.5

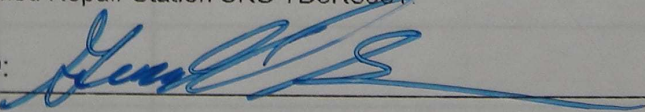
**Engine Entries**

(6) Performed a 150 HR servicing of this engine in accordance with the Cirrus Aircraft SR-22T AMM Chapter 05-20 scheduled maintenance checklist.

(7) Drained engine oil. Serviced engine with 8 quarts of Aeroshell 15W-50 engine oil. Replaced oil filter with new Tempest AA48108-2. Performed particulate inspection on old filter and found no unusual contamination. Work accomplished in accordance with Cirrus Aircraft SR-22T AMM chapter 12-10. OPS and leak check good.

I have reviewed the file on this aircraft and the accompanying discrepancy forms. The aircraft, airframe, aircraft engine, propeller or appliance identified was repaired/inspected in accordance with current requirements of the Federal Aviation Administration and is approved for return to service. Pertinent details of this work order are on file at this Certified Repair Station CRS YD5R855Y.

DATE: 1/20/2015

SIGNED: 

Work Order: 16688-01-2015

Gerald Mensen  
Certified Repair Station No. YD5R855Y

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**DOUGLAS DUNCAN AVIATION LLC 100 TOWER DR, HGR 6 GREENVILLE, SC 29607**  
**LOG ID# 9775 12-February-2015 WO# 6124 REF# 6124 AC TT 152.2 HOBBS 194.7**  
**N416KS S/N 0854 CIRRUS SR22T**  
**FHM 152.2 TSN 152.2 TSO 152.2**

ENGINE  
\*50 HOUR INTEVAL ITEMS (IN-SERVICE INSPECTION I)  
DRAINED OIL; TOOK SAMPLE; REMOVED, INSPECTED, AND REPLACED OIL FILTER, P/N CH48108-1; SERVICED WITH 7 QTS AEROSHELL 100W+ OIL. LEAK CHECK: GOOD. ALL IAW CIRRUS SR22 MM 12-10.  
PERFORM ENGINE OPERATIONAL INSPECTION BEFORE AND AFTER INSPECTION AND MAINTENANCE IS PERFORMED



**DOUGLAS DUNCAN AVIATION LLC 100 TOWER DR, HGR 6 GREENVILLE, SC 29607**  
**LOG ID# 9775 12-February-2015 WO# 6124 REF# 6124 AC TT 152.2 HOBBS 194.7**  
**N416KS S/N 0854 CIRRUS SR22T**  
**FHM 152.2 TSN 152.2 TSO 152.2**

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ENGINE

\*50 HOUR INTEVAL ITEMS (IN-SERVICE INSPECTION I)

DRAINED OIL; TOOK SAMPLE; REMOVED, INSPECTED, AND REPLACED OIL FILTER, P/N CH48108-1; SERVICED WITH 7 QTS AEROSHELL 100W+ OIL. LEAK CHECK: GOOD. ALL IAW CIRRUS SR22 MM 12-10.  
PERFORM ENGINE OPERATIONAL INSPECTION BEFORE AND AFTER INSPECTION AND MAINTENANCE IS PERFORMED

INSPECT OIL LINES AND FITTINGS FOR CONDITION, SECURITY, AND LEAKS 50 HR  
INSPECT SPARK PLUG CABLE LEADS FOR CHAFFING, CORROSION, AND DEPOSITS 50 HR  
VISUAL INSPECTION OF AIR INTAKE DUCTS AND FILTER FOR GENERAL CONDITION 50 HR  
CHECK OPERATION OF ALTERNATE AIR FLAPPER VALVE 50 HR  
DRAIN AND CLEAN GASCOLATOR FUEL FILTER AND BOWL  
PERFORM INSPECTION/CHECK- EXHAUST SYS.

VISUALLY INSPECT BREATHER TUBE FOR OBSTRUCTIONS AND SECURITY  
VISUALLY INSPECT ENGINE COMPARTMENT FOR LOOSE NUTS, BOLTS, SCREWS, AND PARTS  
INSPECT CYLINDER DRAINS FOR CLOGGING OR RESTRICTION  
VISUALLY INSPECT MAGNETOS AND PERFORM MAG DROP CHECK, ADJUST AS NEEDED  
INSPECTED TURBO SYSTEM (INCREMENTAL TIME FOR ITEMS AND TCA ICA)  
O2 EQUIPPED TOPPED OFF SYSTEM

THE AIRCRAFT, ENGINE, COMPONENT, PROPELLER OR APPLIANCE IDENTIFIED ABOVE WAS REPAIRED IN ACCORDANCE WITH CURRENT FEDERAL AVIATION AGENCY REGULATIONS AND IS HEREBY APPROVED FOR RETURN TO SERVICE WITH REGARDS TO MAINTENANCE PERFORMED.

**DOUGLAS DUNCAN AVIATION LLC 100 TOWER DR, HGR 6 GREENVILLE, SC 29607**  
**LOG ID# 9775 12-February-2015 WO# 6124 REF# 6124 AC TT 152.2 HOBBS 194.7**  
**N416KS S/N 0854 CIRRUS SR22T**  
**FHM 152.2 TSN 152.2 TSO 152.2**

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*[Signature]* 3399769 2-12-15  
YES BANGLE A&P 3399769 IA DATE



Date

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 →



**Registration: N416KS Date: 24 August 2015 Flight: 222.2 TT**

**Make: Continental Model: TSIO-550-K1B S/N: 1010597**

Performed a 100 hour inspection per the scope and detail of FAR 43 Appendix D using Cirrus Service Instructions 5-20, Continental Motors ICA and Tanis Preheat ICA Rev. A dated 8-24-10. The following work was completed: installed 7 quarts of Aeroshell 100W oil, installed new Tempest AA48108-2 oil filter, Cleaned re-gapped and re-installed spark plugs, confirmed correct mag timing of 24 degrees before TDC, performed a differential compression test 1) 72/80 2) 72/80 3) 72/80 4) 73/80 5) 70/80 6) 72/80 master orifice 59, adjusted manifold pressure and fuel flows to Cirrus Specifications. The fuel injectors nozzles were removed, cleaned, and reinstalled using CMI Publication #FI-02, Sect. E and F. The TKS line b-nut was safetied at the spinner baffle. Complied with CMI **CSB15-2** by installing P/N: 658607.

(Reference work order: 370)

I certify that this engine has been inspected in accordance with a 100 hour/annual inspection as per the scope and detail FAR43 Appendix D and Cirrus AMM date June 2010 and was determined to be in an airworthy condition.

Otis D. Hudson, Jr.: *Otis D Hudson Jr* Certificate #: A&P 3490004IA



Otis D. Hudson, Jr.: Otis D Hudson Jr Certificate #: A&P 3490004IA

DOUGLAS DUNCAN AVIATION LLC 100 TOWER DR, HGR 6 GREENVILLE, SC 29607  
LOG ID# 9840 23-April-2015 WO# 6157 REF# 6157 AC TT 172.3 HOBBS 219.1  
N416KS S/N 0854 CIRRUS SR22T  
FHM 172.3 TSN 172.3 TSO 172.3

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ENGINE  
\*50 HOUR INTEVAL ITEMS (IN-SERVICE INSPECTION I)  
DRAINED OIL; TOOK SAMPLE; REMOVED, INSPECTED, AND REPLACED OIL FILTER, P/N CH48108-1; SERVICED WITH 7 QTS AEROSHELL 100w+ OIL. LEAK CHECK: GOOD. ALL IAW CIRRUS SR22 MM 12-10.  
PERFORM ENGINE OPERATIONAL INSPECTION BEFORE AND AFTER INSPECTION AND MAINTENANCE IS PERFORMED  
INSPECT OIL LINES AND FITTINGS FOR CONDITION, SECURITY, AND LEAKS  
INSPECT SPARK PLUG CABLE LEADS FOR CHAFFING, CORROSION, AND DEPOSITS  
VISUAL INSPECTION OF AIR INTAKE DUCTS AND FILTER FOR GENERAL CONDITION  
CHECK OPERATION OF ALTERNATE AIR FLAPPER VALVE  
PERFORM INSPECTION/CHECK- EXHAUST SYS.  
VISUALLY INSPECT BREATHER TUBE FOR OBSTRUCTIONS AND SECURITY  
VISUALLY INSPECT ENGINE COMPARTMENT FOR LOOSE NUTS, BOLTS, SCREWS, AND PARTS  
INSPECT CYLINDER DRAINS FOR CLOGGING OR RESTRICTION  
VISUALLY INSPECT MAGNETOS AND PERFORM MAG DROP CHECK, ADJUST AS NEEDED  
INSPECTED TURBO SYSTEM (INCREMENTAL TIME FOR ITEMS AND TCA ICA)  
\*REMOVED OIL COOLER FOR ACCESS TO THE VERNATHERM & OIL TEMP SENSOR. REPLACED VERNATHERM PN:657496 & TEMP SENSOR PN:24761-002, REINSTALLED OIL COOLER WITH NEW GASKET PN:649989 NO LEAKS NOTED FROM OIL COOLER MOUNTING FACE.  
\*REPLACED OIL COOLER TO "T" FITTING FOR OIL PRESSURE SWITCH WITH NEW UNION PN:AN911-1J GROUND RAN ENGINE NO LEAKS NOTED.

THE AIRCRAFT, ENGINE, COMPONENT, PROPELLER OR APPLIANCE IDENTIFIED ABOVE WAS REPAIRED IN ACCORDANCE WITH CURRENT FEDERAL AVIATION AGENCY REGULATIONS AND IS HEREBY APPROVED FOR RETURN TO SERVICE WITH REGARDS TO MAINTENANCE PERFORMED.

Yes Bangle 3399769 4-23-15  
YES BANGLE A&P 3399769 IA DATE



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

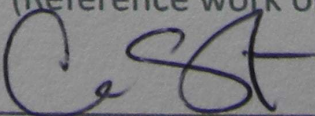


Registration: N416KS Date: 21 Jan 16 Flight: 249.2 TT  
Make: Continental Model: TSIO-550-K1B S/N: 1010597

Performed a 50 hour Cirrus CMx inspection using Cirrus Service Instructions 5-20 and Continental Motors ICA. The following work was completed: installed 8 quarts of Phillips 20W50 XC oil, installed new Tempest AA48108-2 oil filter, serviced the gascolator with a new o-ring and stat-o-seal. Installed oil sump clearance kit to comply with SB 15-3.

This engine has been inspected in accordance with Federal Aviation Regulations and is hereby approved for return to service.

(Reference work order: 517)

Charles R. Stewart. :  Certificate #: A&P 3030619



Registration: N416KS Date: 17 Aug. 16 Flight: 293.9TT  
Make: Continental Model: TSIO-550-K1B S/N: 1010597







