

ENGINE LOG BOOK





Teledyne Continental Motors, Inc.

www.GenuineContinental.aero

Production Certificate 508

Printed: 02/10/2011

Test Date: 02/10/2011

This engine model TSIO550K1B, serial number 1003759 was manufactured by Teledyne 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 Teledyne Continental Motors Service Bulletins.

es contains useful information
d service bulletins that may be

Date	Total Time		Time Since Last Overhaul		Engine Service and Maintenance Record
	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					

ENGINE MODEL
TSIO-550-K1B
ENGINE S/N 1003759
REG. NO. 224CT
WORK ORDER
14139-03-2011



Cirrus Design Factory Service Center
Repair Station No. YDSR855Y
4514 Taylor Circle
Duluth, MN 55811
Phone: 218-788-3438

DATE 3/19/2011
A/C TSN: 19
ENG TT: 19
HOBBS: 23.2

Engine Entries

(5) Flight meter 19.0 hrs - Performed 25 hour engine inspection IAW TCM TSIO Permold Series Engine Maintenance and Overhaul Manual Table 6-14.
(8) Changed engine oil and filter, Champion CH48108-1, P/N 50857-001. Serviced engine with 3 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 IAW Cirrus SR22 A.M.M. 12-10. (11) Inspected exhaust system IAW CDC AMM 78-20. No defects noted.

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 repair are on file at this Certified Repair Station CRS YDSR855Y.

DATE 3/18/2011

SIGNED

Dave Ruuskanen
Certified Repair Station No. YDSR855Y

Work Order: 14139-03-2011

Printed by EBis 3 (datamedia.com)

Reg No. N224CT
Engine Model TSIO-550-K1B
Engine S/N 1003759
W.O. 2996

April 04, 2011
A/C TSN: 57.1 hrs
Engine TT: 57.1 hrs
Hobbs 75.2 hrs

1. Performed 25 hours engine inspection IAW TCM TSIO Permold Series Engine Maintenance and Overhaul Manual Table 6-14.
 2. Changed engine Oil and Filter, Champion CH48108-1, TCM P/N: 649922, serviced engine with 9 quarts of Aeroshell 15W-50 engine oil. Performed operational and leak checks. Operational and leak checks good. All work was accomplished IAW Cirrus SR22 A.M.M. 12-10.
 3. Inspected exhaust system IAW A.M.M. 78-20. No defects noted.
- 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.

A&P Signature:

Samuel E. Miñones

A&P Certificate:

A&P 2626181

Aircraft : Cirrus, model SR22, S/N 22T 0105, REG N° N224CT

Date: May. 02. 2011 A/C TSN 101.5 Hrs, Eng. TSN 101.5 Hrs, Prop TSN 101.5 Hrs

Job : Performed CIRRUS AIRCRAFT 100 HOUR DEMO INSPECTION IAW Demo care inspection and maintenance program
Work Order OT 30738

Aircraft is in Airworthiness condition

Manuel E. Miñones

Manuel E Miñones
A&P Cert. 2444165
FAA United States Of America

03/05/11 101.5 Hrs.

ENGINE MODEL
TSIO-550-K1B
ENGINE S/N 1003759
REG NO 224CT
WORK ORDER
14139-03-2011



Cirrus Design Factory Service Center

Repair Station No YD5R855Y
4514 Taylor Circle
Duluth, MN 55811
Phone 218-788-3438

DATE 3/18/2011
A/C TSN 19
ENG TT 19
HOBBS 23.2

Engine Entries

(5) Flight meter 19.0 hrs - Performed 25 hour engine inspection IAW TCM TSIO Permold Series Engine Maintenance and Overhaul Manual Table 6-14
(8) Changed engine oil and filter, Champion CH48108-1, P/N 50857-001. Serviced engine with 3 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 IAW Cirrus SR22 A M M 12-10. (11) Inspected exhaust system IAW CDC AMM 78-20. No defects noted.

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 repair are on file at this Certified Repair Station CRS YD5R855Y.

DATE: 3/18/2011

SIGNED:

Dave Ruuskanen
Certified Repair Station No YD5R855Y

Work Order: 14139-03-2011

Printed by EBis 3 (datamedia.com)

Aircraft : Cirrus, model SR22, S/N 22T 0105, REG N° N224CT

**Date: May. 02 . 2011 A/C TSN 101.5 Hrs, Eng. TSN 101.5 Hrs,
Prop TSN 101.5 Hrs**

**Job : Performed CIRRUS AIRCRAFT 100 HOUR DEMO INSPECTION IAW Demo
care inspection and maintenance program
Work Order OT 30738**

Aircraft is in Airworthiness condition

A handwritten signature in black ink, appearing to read 'Manuel E Miñones', written over a horizontal line.

Manuel E Miñones

A&P Cert. 2444165

FAA United States Of America

Reg No. N224CT

Engine Model TSIO-550-K1B

Engine S/N 1003759

W.O. 2996

April 04, 2011

A/C TSN: 57.1 hrs

Engine TT: 57.1 hrs

Hobbs 75.2 hrs

1. Performed 25 hours engine inspection IAW TCM TSIO Permold Series Engine Maintenance and Overhaul Manual Table 6-14.
2. Changed engine Oil and Filter, Champion CH48108-1, TCM P/N: 649922, serviced engine with 9 quarts of Aeroshell 15W-50 engine oil. Performed operational and leak checks. Operational and leak checks good. All work was accomplished IAW Cirrus SR22 A.M.M. 12-10.
3. Inspected exhaust system IAW A.M.M 78-20. No defects noted

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.

A&P Signature: *SAUL EN ALVARADO*

A&P Certificate: *AEP 2626181*

AUTHORIZED SIGNATURE: LEONARDO MORON A&P 2539805 IA.

LEONARDO MORON
A&P 2539805 IA

ENGINE MODEL 163 8
ENGINE S/N
REG NO N224CT
WORK ORDER 0598

PLATINUM Service

Platinum Aviation Service
1635 NW 51st Place - Hangar 31
Fort Lauderdale FL 33309
Phone (954) 771-1288

DATE 13 June 2011
A/C TSN 163 8
ENG TT 163 8
FLIGHTTIME 163 8

Engine Entries

Inspected and found the #2 induction tube collar was not in position and found near the coupler. Inspected for damage, none found. Reinstalled the collar in it's proper position. Removed nut from the aft attachment stud, inspected for damage and determined that the stud was still serviceable. Reinstalled the stud and replaced the nut. Worked performed IAW TCM IO-550 Overhaul Manual.

DATE 13 June, 2011

SIGNED

James Chrisman A&P 3558281

Work Order: 0598

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ENGINE MODEL
TSIO-550-K1B
ENGINE S/N 1003759
REG NO 224CT
WORK ORDER
14285-06-2011



Cirrus Design Factory Service Center

Repair Station No YD5R855Y
4514 Taylor Circle
Duluth, MN 55811
Phone 218- 788-3438

DATE 6/30/2011
A/C TSN 172 3
ENG TT 172 3
HOBBS 221 4

Engine Entries

(4) Flight meter 172 3 hrs - Performed engine Annual/100HR inspection IAW cirrus mm chapter 5-20 and 5-30 (7) Researched ADs through bi-weekly issue 2011-13, all ADs are in compliance at this time (10) Drained engine oil and took oil sample, removed oil filter and performed particulate inspection, no discrepancies noted, installed new oil filter P/N CH48108-1 and serviced engine with 8QTS of Aeroshell 20w-50 mineral oil IAW SR-22 AMM 12-20 Leak check satisfactory (11) Performed engine cylinder compression and boroscope inspections, no discrepancies noted on boroscope inspection, compressions are as follows #1 72 /80, #2 72 /80, #3 72 /80, #4 68 /80, #5 70 /80, #6 75 /80, master orifice reading of 46, work performed IAW T C M MM section 19, and T C M S B 03-3 (12) Removed, cleaned, inspected, gapped, tested, rotated, and reinstalled spark plugs IAW T C M MM section 12 (13) Performed magneto to engine timing inspection, no discrepancies noted on inspection, work performed IAW T C M MM section 12 (14) Serviced induction air filters IAW SR-22 AMM 71-60 (16) Performed fuel pressure setups IAW T C M SID 97-3E (30) Replaced air/oil separator bracket, p/n 29132-001 IAW SR-22 AMM 71-00 (31) Found cracked cooling fin on #2 cylinder Per TCM rep, removed and replaced the #2 cylinder assembly with a new assy, p/n 658021A1, s/n off AC11FA172, s/n off AC10JA282 Performed initial run and leak check with satisfactory results All work performed IAW TCM TSIO 550 K Manual, M-18, CDC AMM 78-00, 71-00 and 73-00 (32) Cylinder break in flight performed by CDC flight test pilot with satisfactory results (35) Installed Tanis Engine Preheater (CDC P/N 25028-001) P/N TS02761-115, S/N 44576 IAW Tanis Aircraft Products instructions, Opt's checked GOOD Updated Weight & Balance in POH to reflect installation (57) 71-80 000 Power Plant During #2 cylinder change, the #2 exhaust lifter was found to have abnormal wear Removed all cylinder rocker covers, rockers, push rod tubes and push rods for lifter inspection Inspection of lifters showed minor wear on faces of exhaust lifters Replaced 6 exhaust lifters (PN 650887) Intake lifters and cam showed no signs of abnormal wear Reassembled above IAW TCM TSIO Manual M-18 Leak check and function check satisfactory (63) Engine runs rough when leaned out at altitude Replaced all spark plugs, P/N RHB32S IAW CDC AMM 74-30 Ops check satisfactory Test flight performed on item 67 (67) Flight test for ignition system operation, MAP and takeoff RPM adjustments satisfactory

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 repair are on file at this Certified Repair Station CRS YD5R855Y

DATE: 6/30/2011

SIGNED

Peterson, Daniel J
Certified Repair Station No YD5R855Y

Work Order: 14285-06-2011

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

TAIL No: N224CT
MODEL: SR22T
S/N: 0105

A/C T.T.: 155,8
FLIGHT: 155,8
PAGE: 1 OF 1

ENG TSN: 155,8
PROP TSN: 155,8
DATE: JUN 09th, 2011

COMPLIED WITH OIL AND OIL FILTER CHANGE. INSTALLED NEW FILTER P/N CH48108-1, SERVICED WHIT 8 QTS ENGINE OIL PHILLIPS 66, SAE 50, ASHLESS DISPERSANT. ENGINE WAS RUN AND CHECKED FOR LEAKS.

AUTHORIZED SIGNATURE: LEONARDO MORON A&P 2539805 IA.

LEONARDO MORON SOSA
A&P 2539805 IA
LIC 2539805 IA

ENGINE MODEL: 163 8
ENGINE S/N:
REG NO: N224CT
WORK ORDER 0598

PLATINUMService

Platinum Aviation Service

1635 NW 51st Place - Hangar 31
Fort Lauderdale FL 33309
Phone: (954) 771-1288

DATE: 13 June, 2011
A/C TSN 163 8
ENG TT 163 8
FLIGHTTIME 163 8

Engine Entries

Record

removal and Directives,

Date	Total Time		Time Since Last Overhaul		Engine Service and Maintenance Record
	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					
ARAPAHOE AERO 12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386 N224CT Continental TSIO-550-K(1)B S/N: 1003759 Engine Log Entry 14 July 2011 Flight Hobbs: 0186.4 Hobbs Meter: 0240.1 Serviced engine with 7 quarts Shell 100+, Installed new oil filter. Old filter inspected. No ferrous contaminants noted. Blackstone oil sample submitted. Installed test gauge and completed fuel system set-up per Cirrus AMM. Adjusted high end fuel flow as needed. No further adjustment needed. Removed left turbo air filter box. Removed seal from air box flange. Scuffed seal and affixed to turbocharger inlet flange. Elongated slots in air box mounting flange. Reinstalled air box assembly and aligned as needed. All air box modifications completed per Cirrus Aircraft technical support. Removed injector line at the #2 injector and corrected washer / seal stack-up as needed. Ground run operational and leak checks satisfactory. <i>L. John Wells</i> L. John Wells A&P 3221132 w/o 30805 / 30806					
ENGINE Model: TSIO550KB S/N: 1003759 Date: August 26, 2011. Aircraft Total Time: 216.3 hrs Hobbs: 279.1 hrs					
Engine Logbook Entry The Ignition harness RH was replaced with a new p/n:10-421674-21, s/n_on:K11G, s/n_off:K11A, Performed ground run check., ground run ok. The aircraft and/or component(s) identified above was repaired and inspected in accordance with current maintenance rules of the Federal Aviation Regulations and is approved for return to service. "Pertinent details of the repair are on file at this repair station under the referenced Work Order. Signed: <i>R. R. A&P 3221522</i> Work Order: 0110817					

Date: Oct. 21st, 2011

Reg. Num. N224CT
 Aircraft: Cirrus 22T
 Serial Number: 0105
 Total Time: 230.7 hrs.

Engine: Teledyne Continental Motors
 Model: TSIO 550KB
 Serial Number: 1003759
 Total Time: 297.6 hrs.

- 1- Performed 50 hours engine inspection I.A.W TCM TSIO Permold Series Engine. Maintenance and Overhaul Manual, table 6-14.
- 2- Drained oil, performed particles inspection on old filter, check satisfactory. Serviced engine with 7 quarts of Aeroshell W100 engine oil, and replaced engine oil filter. Installed new filter Champion P/N 48108-1. Operation and leak check good. All work was accomplished I.A.W Cirrus SR22 AMM 12-10.
- 3- Inspected exhaust system I.A.W CDC AMM 78-20, No defect found at this time.
- 4- Removed all (12) spark plugs P/N: RHB32S and installed (12) new spark plugs P/N RHB37E.
- 5- Complied with brake hydraulic reservoir fluid level check, ok at this time.
- 6- Complied with tire pressure and condition wheel check, ok at this time.
- 7- Complied with brake caliper stickers check for evidence of overheating, no damage found at this time.
- 8- Complied with brake pads wear condition check, ok at this time.
- 9- Complied with lighting functional check, ok at this time. I.A.W Cirrus SR22 AMM.

The aircraft and / or component (s) identified above was repaired and inspected in accordance with current maintenance rules of the Federal Aviation Regulations and is approved for return to service and is in Airworthiness condition.

Juan S. Napoles
 Juan S. Napoles
 FAA A&P No. 2805516

Engine Service and Maintenance Record

Date

Total Time

Time Since Last Overhaul

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

Carr

ARAPAHOE AERO

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

N224CT

Continental

TSIO-550-K(1)B

S/N: 1003759

Engine Log Entry

14 July 2011

Flight Hobbs: 0186.4

Hobbs Meter: 0240.1

Serviced engine with 7 quarts Shell 100+. Installed new oil filter. Old filter inspected. No ferrous contaminants noted. Blackstone oil sample submitted. Installed test gauge and completed fuel system set-up per Cirrus AMM. Adjusted high end fuel flow as needed. No further adjustment needed. Removed left turbo air filter box. Removed seal from air box flange. Scuffed seal and affixed to turbocharger inlet flange. Elongated slots in air box mounting flange. Reinstalled air box assembly and aligned as needed. All air box modifications completed per Cirrus Aircraft technical support. Removed injector line at the #2 injector and corrected washer / seal stack-up as needed. Ground run operational and leak checks satisfactory.

L. John Wells L. John Wells A&P 3221132

w/o 30805 / 30806

ENGINE

Model: TSIO550KB

S/N: 1003759

Date: August 26, 2011.

Aircraft Total Time: 216.3 hrs

Hobbs: 279.1 hrs

Engine Logbook Entry

The Ignition harness RH was replaced with a new p/n:10-421674-21, s/n_on:K11G, s/n_off:K11A, Performed ground run check., ground run ok.

The aircraft and/or component(s) identified above was repaired and inspected in accordance with current maintenance rules of the Federal Aviation Regulations and is approved for return to service. "Pertinent details of the repair are on file at this repair station under the referenced Work Order.

Signed:

RRR A&P 3221522

Work Order: 0110817

ENGINE
Model: TSIO550KB
S/N:1003759

Date: August 26, 2011.
Aircraft Total Time: 216.3 hrs
Hobbs:279.1 hrs

Engine Logbook Entry

The Ignition harness RH was replaced with a new p/n:10-421674-21, s/n_on:K11G, s/n_off:K11A, Performed ground run check., ground run ok.

The aircraft and/or component(s) identified above was repaired and inspected in accordance with current maintenance rules of the Federal Aviation Regulations and is approved for return to service. "Pertinent details of the repair are on file at this repair station under the referenced Work Order.

Signed: RRR A&P 3221522

Work Order: 0110817

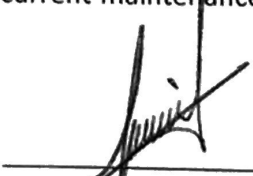
Date: Oct. 21st, 2011

Reg. Num. N224CT
Aircraft: Cirrus 22T
Serial Number: 0105
Total Time: 230.7 hrs.

Engine: Teledyne Continental Motors
Model: TSIO 550KB
Serial Number: 1003759
Total Time: 297.6 hrs.

- 1- Performed 50 hours engine inspection I.A.W TCM TSIO Permold Series Engine. Maintenance and Overhaul Manual, table 6-14.
- 2- Drained oil, performed particles inspection on old filter, check satisfactory. Serviced engine with 7 quarts of Aeroshell W100 engine oil, and replaced engine oil filter. Installed new filter Champion P/N 48108-1. Operation and leak check good. All work was accomplished I.A.W Cirrus SR22 AMM 12-10.
- 3- Inspected exhaust system I.A.W CDC AMM 78-20, No defect found at this time.
- 4- Removed all (12) spark plugs P/N: RHB32S and installed (12) new spark plugs P/N RHB37E.
- 5- Complied with brake hydraulic reservoir fluid level check, ok at this time.
- 6- Complied with tire pressure and condition wheel check, ok at this time.
- 7- Complied with brake caliper stickers check for evidence of overheating, no damage found at this time.
- 8- Complied with brake pads wear condition check, ok at this time.
- 9- Complied with lighting functional check, ok at this time. I.A.W Cirrus SR22 AMM.

The aircraft and / or component (s) identified above was repaired and inspected in accordance with current maintenance rules of the Federal Aviation Regulations and is approved for return to service and is in Airworthiness condition.


Juan S. Napoles
FAA A&P No. 2805516

Engine Log

TAS100 preheater S/A
Aircraft Products instr

Date	Total Time		Time Since Last Overhaul		Engine Service and Maintenance Record	
	Hours	Min	Hours	Min		
Carried forward →					Record maintenance actions including engine part removal and installation and compliance with inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins	
Clear Star Aviation ENGINE MODEL: TSIO-550-K (1) ENGINE S/N: 1003759 REG NO: N224CT WORK ORDER: 113633 Repair Station No. 5CSR009B 4765 Frank Luke Dr Addison, Texas 75001 Phone: 972-267-2376					DATE: 2/3/2012 A/C TSN: 265 ENG TT: 265 FLIGHTTIME: 265	
Engine Entries The oil and filter was changed and serviced with 7 quarts of AeroShell W100 and a new CH48108-1 filter. An oil sample was collected for analysis by Blackstone Laboratories. Pertinent details of repair are on file at this Certified Repair Station 5CSR009B						
DATE: 2/3/2012	SIGNED: <i>Isaiah Daw</i>			Work Order: 113633	Printed by EBis 3 (datcomedia.com)	
Clear Star Aviation ENGINE MODEL: TSIO-550-K (1) ENGINE S/N: 1003759 REG NO: N224CT WORK ORDER: 113756 Repair Station No. 5CSR009B 4765 Frank Luke Dr Addison, Texas 75001 Phone: 972-267-2376						DATE: 6/22/2012 A/C TSN: 304.7 ENG TT: 304.7 FLIGHTTIME: 304.7
Engine Entries Performed engine 100 HR inspection in accordance with current Cirrus Design Aircraft Maintenance Manual 5-20 and 5-30. The cylinder compression was checked with the following results: #1, 76/80 #2, 73/80 #3, 75/80 #4, 70/80 #5, 71/80 #6, 71/80 psi. Master orifice 48/80. The oil and filter was changed and serviced with 8 quarts of AeroShell 100W and a new CH48108-1 filter. An oil sample was collected for analysis by Blackstone Laboratories. Torqued the rocker box cover mounting screws. Researched AD's through bi-weekly issue of this date, all AD's are in compliance at this time. I certify that this engine has been inspected in accordance with a 100HR inspection and was determined to be in airworthy condition. 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 repair are on file at this Certified Repair Station 5CSR009B.						
DATE: 6/22/2012	SIGNED: <i>Adam Menge</i>			Work Order: 113755	Printed by EBis 3 (datcomedia.com)	
Commander Aero, Inc. ENGINE MODEL: IO-550-B ENGINE S/N: 1003759 REG NO: N224CT WORK ORDER: 29111-08-2012 Repair Station No. GA5R-876M 10570 Springboro Pike Mansburg, Ohio 45442 USA Phone: 688-3311 5580						DATE: 8/15/2012 A/C TSN: 325.2 ENG TT: 325.2 TACH: 325.2
Engine Entries (2) Checked Compression - 1) 70/80; 2) 68/80; 3) 72/80; 4) 70/80; 5) 72/80; 6) 74/80.... (3) Repaired Alt #2 cover. I certify that this engine was inspected in accordance with a 100 hour inspection and found to be airworthy. The aircraft and/or component(s) on N224CT was repaired and inspected in accordance with current FAR's rules of the Federal Aviation Regulations and was found airworthy for return to service. Pertinent details of the repair are on file at this repair station under Work Order No. 29111-08-2012						
DATE: 8/15/2012	SIGNED: <i>Alvin Minzler</i>			Work Order: 29111-08-2012	Printed by EBis 3 (datcomedia.com)	



Maintenance Record

ing engine part removal and
tions, Airworthiness Directives,
Service Bulletins

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



Engine Logbook Entry

Name: Windsor Aviation L.L.C.	Tail # N224CT	Hobbs 481.9 Flight 374.9
W.O.: 8342	Serial #: 1003759	Engine T.T. 374.9
Date: 09/01/2013	Model # TSIO-550-K1B	

Completed annual engine inspection this date IAW Cirrus SR22T MM & MM checklist. Compressions: #1=54/80 #2=70/80 #3=70/80 #4=68/80 #5=64/80 #6=70/80, Master orifice reading 43 PSI. Changed oil and filter P/N CH48108-1 and serviced with 8 qts. Phillips 20W50 Type M oil. Removed Cyl.#1 and sent out to Continental Motors for repair under WO# CS-1137 dated 8/20/2013. Installed same after repair P/N 658021 S/N AC101A262. Installed with new gaskets and seals, installed IAW Continental Motors TSIO-550-K overhaul and maintenance manual. Cleaned all fuel nozzles, installed with new O-rings. C/W AD 2012-03-06 Fuel Servo, D/N/A. C/W AD 2011-25-51 Starter Adapter, D/N/A by time. C/W AD 2012-10-13 Starter Adapter, D/N/A by time. Replaced RH air filter P/N 27166-001. After inspection ran up engine no leaks noted and ops. Check O.K.. I certify that this engine has been inspected IAW a annual inspection and is airworthy at this time and is approved for return to service.

Signature: Steven Wolff A&P IA 16629146
Flightlevel Norwood Aircraft Maintenance
209 Access Road, Norwood MA 02062 781-769-8686



Engine Logbook Entry

Name: Windsor Aviation L.L.C.	Tail # N224CT	Hobbs 532.9 Flight 415.7
W.O.: 8875	Serial #: 1003759	
Date: 10/15/2014	Model # TSIO-550-K1B	

Completed annual engine inspection this date IAW FAR 43 Appendix D. Compressions: #1=72/80 #2=62/80 #3=68/80 #4=70/80 #5=64/80 #6=66/80, Master orifice reading 49 PSI. Changed oil and filter P/N CH48108-1 and serviced with 8 qts. Phillips 20W50 X/C. Cleaned all fuel nozzles, installed with new O-rings. Replaced all spark plugs 12 each P/N URHB32E. C/W Alternator #1 2 year/500 Hr. inspection, replaced brush block Assy. P/N ALE-3045BS. C/W Annual fuel pressure check, found all readings within limits. After inspection ran up engine no leaks noted and ops. Check O.K.. I certify that this engine has been inspected IAW a annual inspection and is airworthy at this time and is approved for return to service.

Signature: Steven Wolff A&P IA 16629146
Flightlevel Norwood Aircraft Maintenance
209 Access Road, Norwood MA 02062 781-769-8686

LOGBOOK ENTRY

ENGINE

Name: Windsor Aviation LLC	A/C: N244CT
W.O.: 8714	Tach Time: 405.0
Date: 6/06/2014	AC S/N: 0105

Uncowled and Drained oil. Removed and replaced oil filter. Refilled with 8 quarts of Phillips 20W-50X/C. Installed CH48108-1 oil filter. Cut and inspected filter, inspection okay. Cowled and leak checked.

With respect to the work performed above, this aircraft is approved for return to service.

Signature: A&P 38401436
Lance Drew
FlightLevel Norwood LLC - Maintenance
209 Access Rd., Norwood, MA 02062



FLIGHTLEVEL

Engine Logbook Entry

Name: Windsor Aviation L.L.C.	Tail # N224CT	
W.O.: 8342	Serial #: 1003759	Hobbs 481.9 Flight 374.9
Date: 09/01/2013	Model # TSIO-550-K1B	Engine T.T. 374.9

Completed annual engine inspection this date IAW Cirrus SR22T MM & MM checklist. Compressions: #1=54/80 #2=70/80 #3=70/80 #4=68/80 #5=64/80 #6=70/80, Master orifice reading 43 PSI. Changed oil and filter P/N CH48108-1 and serviced with 8 qts. Phillips 20W50 Type M oil. Removed Cyl.#1 and sent out to Continental Motors for repair under WO# CS-1137 dated 8/20/2013, Installed same after repair P/N 658021 S/N AC10JA262, Installed with new gaskets and seals, installed IAW Continental Motors TSIO-550-K overhaul and maintenance manual. Cleaned all fuel nozzles, installed with new O-rings. C/W AD 2012-03-06 Fuel Servo, D/N/A. C/W AD 2011-25-51 Starter Adapter, D/N/A by time. C/W AD 2012-10-13 Starter Adapter, D/N/A by time. Replaced RH air filter P/N 27166-001. After inspection ran up engine no leaks noted and ops. Check O.K.. I certify that this engine has been inspected IAW a annual inspection and is airworthy at this time and is approved for return to service.

Signature: _____

Steven Wolff A&P IA 16629146

Flightlevel Norwood Aircraft Maintenance

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FLIGHTLEVEL

N O R W O O D

Engine Logbook Entry

Name: Windsor Aviation L.L.C.	Tail # N224CT	
W.O.: 8875	Serial #: 1003759	Hobbs 532.9 Flight 415.7
Date: 10/15/2014	Model # TSIO-550-K1B	

Completed annual engine inspection this date IAW FAR 43 Appendix D. Compressions: #1=72/80 #2=62/80 #3=68/80 #4=70/80 #5=64/80 #6=66/80, Master orifice reading 49 PSI. Changed oil and filter P/N CH48108-1 and serviced with 8 qts. Phillips 20W50 X/C. Cleaned all fuel nozzles, installed with new O-rings. Replaced all spark plugs 12 each P/N URHB32E. C/W Alternator #1 2 year/500 Hr. inspection, replaced brush block Assy. P/N ALE-3045BS. C/W Annual fuel pressure check, found all readings within limits. After inspection ran up engine no leaks noted and ops. Check O.K.. I certify that this engine has been inspected IAW a annual inspection and is airworthy at this time and is approved for return to service.

Signature: _____

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LOGBOOK ENTRY

ENGINE

Name: Windsor Aviation LLC

W.O.: 8714

Date: 6/06/2014

A/C: N244CT

Tach Time: 405.0

AC S/N: 0105

Uncowled and Drained oil. Removed and replaced oil filter. Refilled with 8 quarts of Phillips 20W-50X/C. Installed CH48108-1 oil filter. Cut and inspected filter, inspection okay. Cowled and leak checked.

With respect to the work performed above, this aircraft is approved for return to service.

Signature: 

A&P 38401436

Lance Drew

FlightLevel Norwood LLC - Maintenance
209 Access Rd., Norwood, MA 02062

Engine Service and Maintenance Record

Date

Total Time

Time Since Last Overhaul

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



FLIGHTLEVEL
N O R W O O D

Engine Logbook Entry

Name: Windsor Aviation, LLC	Tail # N224CT	Hobbs Time: 570.0
W.O.: 9216	Serial #: 1003759	Flight Time: 443.6
Date: 11/20/15	Model # TSIO-550-K1B	

Complied with oil and filter change. Refilled with 8 quarts of Phillips 20W50 X/C oil. Installed CH48108-1 oil filter. Cut and inspected oil filter. Complied with Annual Fuel Pressure check per TCM SID 97-3F, found satisfactory. Adjusted takeoff RPM to within limits. Adjusted engine overboost controller to within limits. Cleaned, gapped, and tested all spark plugs, reinstalled with new gaskets. Complied with MSB 15-7A Oil cooler cross fitting. Replaced cross fitting with new style P/N 658607. Checked all bi-weekly ADs through 2015-23. Checked engine compressions: Cyl. #1: 68/80, Cyl. #2: 65/80, Cyl. #3: 72/80, Cyl. #4: 69/80, Cyl. #5: 66/80, Cyl. #6: 62/80.

I certify that this engine has been inspected IAW FAR 43 Appendix D for a 100 Hour Inspection and has been determined to be in airworthy condition.

Signature: [Signature] Lance Drew A&P 38401436

I certify that this engine has been inspected IAW an Annual Inspection and is airworthy at this time and is approved for return to service.

Signature: [Signature] August Mazzella A&P IA 1898863

Flightlevel Norwood Aircraft Maintenance
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FLIGHTLEVEL
N O R W O O D

Engine Logbook Entry

Name: Windsor Aviation L.L.C.	Tail # N224CT	
W.O.: 9562	Serial #: 1003759	Hobbs 621.1 Flight 483.8
Date: 12/09/2016	Model # TSIO-550-K1B	

Completed annual engine inspection this date IAW FAR 43 Appendix D. Compressions: #1=76/80 #2=60/80 #3=70/80 #4=62/80 #5=64/80 #6=68/80, Master orifice reading 45 PSI. Changed oil and filter P/N CH48108-1 and serviced with 8 qts. Phillips 20W50 X/C. Took oil sample. Re torqued all rocker box cover screws. Cleaned all fuel nozzles, installed with new O-rings. Replaced cylinder #1 & #3 intake pipe gaskets. Cleaned, gaped and tested all spark plugs. Tightened all heat shields. After inspection ran up engine no leaks noted and ops. Check O.K.. I certify that this engine has been inspected IAW a annual inspection and is airworthy at this time and is approved for return to service.

AD's

C/W AD 2016-16-12 ECI cylinders, N/A not installed.

C/W AD 2016-21-04 oil cooler cross fitting. N/A P/C/W TCM MSB 15-7A installed new fitting P/N 658607.

Signature: [Signature] Steven Wolff A&P IA 16629146

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HERITAGE
AVIATION

Total Time

Time Since Last
Overhaul

Engine Service and Maintenance Record

ENGINE LOG ENTRY

N224CT - Cirrus SR22T s/n 0105
Flight Hobbs: 535.6 Airframe Hobbs: 687.4



including engine part removal and
sections, Airworthiness Directives,
and Service Bulletins

Removed, disassembled, and inspected turbocharger oil supply check valve - noted carbon debris on check valve seat. Cleaned, re-assembled, and re-installed check valve. Removed L/H & R/H turbochargers and removed old oil from compressor housing. Flushed oil passage-way, pre-oiled, and re-installed turbos with new gaskets p/n 636465, 652100, and 652101. Perform engine run-up, op's test and leak check ok. Reference TCM TSIO 550-K EMM ch 17.40 for work performed.

All items were complied with per the manufacturer's maintenance procedures. This aircraft/engine was determined to be in airworthy condition & is approved for return to service for work performed.

October 9th, 2017

Jared Wamgan

CRSIGXR989E WO#SH20222



FLIGHTLEVEL
NORWOOD

Engine Logbook Entry

Name: Windsor Aviation L.L.C.	Tail # N224CT	
W.O.: 9898	Serial #: 1003759	Hobbs 705.1 Flight 549.9
Date: 1/22/2018	Model # TSIO-550-K1B	

Completed annual engine inspection this date IAW FAR 43 Appendix D. Compressions: #1=54/80 #2=52/80 #3=54/80 #4=54/80 #5=64/80 #6=68/80, Master orifice reading 44 PSI. Changed oil and filter P/N CH48108-1 and serviced with 8 qts. Phillips 20W50 X/C. Took oil sample. Replaced cylinder #2 & #4 intake pipe gaskets. Cleaned, gaped and tested all spark plugs. Replaced alternator #2 with new P/N 657199 S/N H-R032702. Replaced alternator #2 bracket P/N 646405. C.W 500 hr. inspection on LH & RH magneto's, replaced points and condensers. Replaced gaskets, installed onto engine and timed. Replaced LH air filter P/N 27166-001. Replaced cylinder #2 baffle spring P/N 51021-001. Tightened all rocker box cover screws. After inspection ran up engine no leaks noted and ops. Check O.K... I certify that this engine has been inspected IAW a annual inspection and is airworthy at this time and is approved for return to service.

Signature:

Steven Wolff A&P IA 16629146
Flightlevel Norwood Aircraft Maintenance
209 Access Road, Norwood MA 02062 781-769-8686



LOGBOOK ENTRY ENGINE

Name: Windsor Aviation LLC
W.O.: 9953

A/C: N224CT
Flight Time: 556.9
Hobbs Time: 714.7
AC S/N: 0105

Date: 3/6/2018

Cleaned all fuel nozzles. Replaced fuel nozzles with new O-rings P/N (12) 630979-9, washers (6) P/N X1473, and rubber washers P/N (6) 640612 I/A/W Cirrus SR22 AMM. Performed leak check and run up, all satisfactory.

With respect to the work performed above, this aircraft is approved for return to service.

Signature:

Alex Bento A&P 3804641
FlightLevel Norwood LLC - Maintenance
209 Access Rd., Norwood, MA 02062



LOGBOOK ENTRY

ENGINE

Name: Windsor Aviation LLC

W.O.: 9971

Date: 4/16/2018

A/C: N224CT

Flight Time: 558.3

Hobbs Time: 716.6

AC S/N: 0105

Engine S/N: 1003759

Checked and tested all spark plug – all satisfactory.

Removed LH magneto P/N 10-500556-101, S/N D11AA042 and replaced with new P/N 10-500556-101, S/N D18BA146. Removed RH magneto P/N 10-500556-101, S/N D11AA034, and replaced with P/N 10-500556-101, S/N D18BA150. Replaced both LH and RH magneto gaskets with new P/N 649954. Replaced LH magneto drive bushings P/N 655269 with new.

Drained oil and re-serviced engine with 7 quarts of Phillips 20W50 X/C oil. Replaced 2 drain plug crush washers with new P/N AN900-10. Replaced aft LH and RH magneto drive cover gaskets with new. Replaced vacuum pump cover gasket with new. Replaced A/C compressor drive gear housing gasket with new.

All work performed IAW Cirrus SR22T AMM, Continental Aircraft Engine Maintenance and Overhaul Manual and Teledyne Continental Aircraft Engine MSB94-8D. Performed run-up and found operations satisfactory.

With respect to the work performed above, this aircraft is approved for return to service.

Signature:

A&P 3804641

Alex Bento

FlightLevel Norwood LLC - Maintenance

209 Access Rd., Norwood, MA 02062



2-12-2019	N224CT	Flight: 594.4
W/O 41053	Cirrus SR22T S/N 0105	Hobbs: 765.0
	TSIO-550-K (1B S/N 1005888	

- Compression test results #1 66/80 #2 43/80 #3 58/80 #4 56/80 #5 72/80 #6 63/80 PSI per SB03-3 low compression is 38/80 psi
- Drain oil, inspected filter for contamination, none found, installed a new CH48-108-1 filter and serviced with 7 quarts of 20W50 Phillips XC oil and camguard. C/W oil sample.
- Ground run, Leak and operational check good.

I certify this Engine has been inspected in accordance with an Annual inspection. The work / inspections listed above were performed in accordance with the current manufacturer's maintenance manuals and current FAA regulations. With respect to the work / Inspections performed, the aircraft identified above was found to be in an airworthy condition and is approved for return to service.

AUTHORIZED SIGNATURE: RICHARD P DOLE A&P 3971178 IA

PORT CITY AIR, INC. / NEW HAMPSHIRE HELICOPTERS, 104 GRAFTON DRIVE, PORTSMOUTH, NH 03801

Date	Total Time		Time Since Last Overhaul		Engine Service and Maintenance Record
	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					



4-15-2020	N224CT	Flight: 643.2
W/O PCA-P160	Cirrus SR22T S/N 0105	Hobbs: 828.6
	TSIO-550-K (1B S/N 1005888	TSN: 643.2

- Compression test results #1 66/80 #2 32/80 #3 42/80 #4 54/80 #5 48/80 #6 65/80 PSI.
- Drain oil, inspected filter for contamination, none found, installed a new CH48108-1 filter and serviced with 7 quarts of 20W50 Phillips XC oil and camguard. C/W oil sample.
- Removed 6 cylinders P/N 658595A1 for repairs, re-installed 6 cylinder in original position with the following parts: P/N SA520-T3 cylinder gasket kit, 633958-2 12 each seal, 633958-5 4 each seal, 649965 gasket breather, MS9970-116 & MS9970-117 O rings, 654309 spacer, 501868 24 each washer, MS9144-01 gasket, 633958-3 6 each seal. Refer to Penn Yan Aero WO # 52923-20, 52924-20, 52925-20, 052926-20, 52927-20.
- Clean turbo charger oil check valve.
- Replace 1 spark plug with P/N RHB-32E.
- Ground run, Leak and operational check good.

I certify this Engine has been inspected in accordance with an Annual inspection. The work / inspections listed above were performed in accordance with the current manufacture's maintenance manuals and current FAA regulations. With respect to the work / Inspections performed, the aircraft identified above was found to be in an airworthy condition and is approved for return to service.

AUTHORIZED SIGNATURE: RICHARD P DOLE A&P 3971178 IA

PORT CITY AIR, INC. / NEW HAMPSHIRE HELICOPTERS, 104 GRAFTON DRIVE, PORTSMOUTH, NH 03801



**FLIGHTLEVEL
AVIATION**

ENGINE

Name: Windsor Aviation, LLC	Tail #: N224CT	Hobbs: 860.6
W.O.: 11396	Serial #: 1003759	Flight: 668.0
Date: 8/26/2021	Model #: TSIO-550-K1B	

C/W oil and oil filter change. Refilled with 8 qts. Phillips 20W-50 X/C. Cut and inspected oil filter. Installed new **AA48108-2** oil filter. Obtained oil sample. Cleaned, gapped, and tested spark plugs. Checked mag timing. Compression check: #1 66/80, #2 65/80, #3 70/80, #4 62/80, #5 62/80, #6 66/80. Removed oil cooler and sent out for repair to Pacific Oil Cooler Services. Reinstalled repaired oil cooler with new gaskets. See 8130-3 for details. Installed new engine starter, MFG. Hartzell P/N PM2407, S/N H-V063513. See 8130-3 for details. **Checked TCM AD 2020-16-11 Cross Flow Cylinders, D/N/A by engine cylinder S/N's. checked and cleaned turbo oil line check valve.** Replaced oil cooler fitting, P/N 628436. Adjusted idle speed and MAP. Checked bi-weekly AD's through 2021-17

I certify that this engine has been inspected IAW FAR 43 Appendix D for a 100 Hour Inspection and has been determined to be in airworthy condition.

Signature: Lance Drew A&P 38401436
Lance Drew

I certify that this engine has been inspected IAW FAR 43 Appendix D for an Annual Inspection and is airworthy at this time and is approved for return to service.

Signature: Steven Wolff IA 16629146
Steven Wolff

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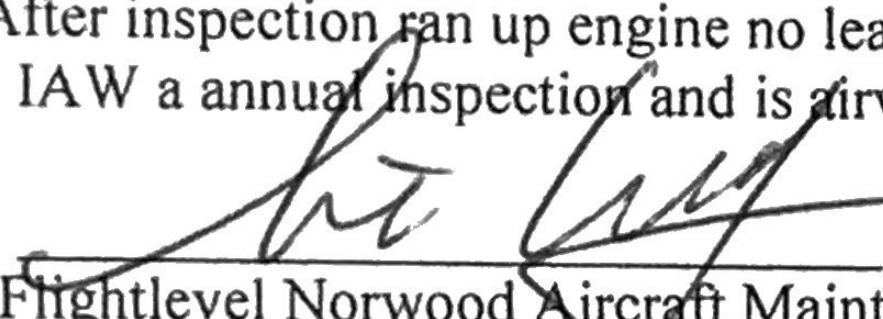


FLIGHTLEVEL
N O R W O O D

Engine Logbook Entry

Name: Windsor Aviation L.L.C.	Tail # N224CT	
W.O.: 11987	Serial #: 1003759	
Date: 9/23/2022	Model # TSIO-550-K1B	Hobbs 900.3 Flight 699.0
		TSN: 699.0

Completed annual engine inspection this date IAW FAR 43 Appendix D. Compressions: #1=66/80 #2=67/80 #3=64/80 #4=64/80 #5=64/80 #6=66/80, Master orifice reading 44 PSI. Changed oil and filter P/N AA48108 and serviced with 8 qts. Phillips 20W50 X/C. Took oil sample. Cleaned all fuel nozzles. C/W Alternator #1 & #2 2 year/ 500 hr. inspection, replaced brush blocks P/N ALE3045BS and P/N 40278 respectively, checked drive slippage on alternator #1, no defects noted. Inspected oil check valve for turbo's. Cleaned, gapped and tested all spark plugs. Repositioned and secured LH & RH turbo V band clamps. Replaced O-ring P/N 630979-15 on lower fitting of waste gate. After inspection ran up engine no leaks noted and ops. Check O.K.. I certify that this engine has been inspected IAW a annual inspection and is airworthy at this time and is approved for return to service.

Signature: 

Steven Wolff A&P IA 16629146

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FLIGHTLEVEL
N O R W O O D

Engine Logbook Entry

Name: Windsor Aviation L.L.C.	Tail # N224CT	
W.O.: 12507	Serial #: 1003759	Hobbs 936.8 Flight 724.7
Date: 11/10/2023	Model # TSIO-550-K1B	TSN: 724.7

Completed annual engine inspection this date IAW FAR 43 Appendix D. Compressions: #1=78/80 #2=76/80 #3=70/80 #4=74/80 #5=72/80 #6=70/80. Changed oil and filter P/N AA48108 and serviced with 8 qts. Phillips 20W50 X/C. Took oil sample. Cleaned & Inspected oil check valve for turbo's. Cleaned, gapped and tested all spark plugs, replaced one spark plug P/N URHB32E. Adjusted LH & RH magneto timing. Replaced rocker box cover gaskets with P/N 668893 for cylinders #1, #2 & #4. Adjusted MAX RPM. After inspection ran up engine no leaks noted and ops. Check O.K.. I certify that this engine has been inspected IAW a annual inspection and is airworthy at this time and is approved for return to service.

AD's

C/W AD 23-09-09 V band Clamps. N/A spot welded V band clamps not installed.

C/W AD 23-05-16 Crankshaft counterweight retaining rings. N/A by engine S/N.

C/W AD 23-02-12 Superior air parts intake valves. N/A, affected intake valves not installed.

C/W AD 22-16-03 S-1200 Series magnetos. N/A not installed.

Signature: _____

Steven Wolff A&P IA 16629146

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FLIGHTLEVEL
N O R W O O D

Engine Logbook Entry

Name: Windsor Aviation L.L.C.	Tail # N224CT	
W.O.: 13097	Serial #: 1003759	Hobbs 975.0 Flight 754.9
Date: 1/24/2025	Model # TSIO-550-K1B	TSN: 754.9

Completed annual engine inspection this date IAW FAR 43 Appendix D. Compressions: #1=65/80 #2=60/80 #3=66/80 #4=68/80 #5=65/80 #6=62/80. Changed oil and filter P/N AA48108 and serviced with 8 qts. Phillips 20W50 X/C. Took oil sample. Cleaned & Inspected oil check valve for turbo's. Cleaned, gapped and tested all spark plugs. Re-clocked LH turbo charger to prevent chafing onto bottom cowl and replaced lock tabs as needed. Checked fuel system and adjusted MAX MAP & Fuel flow, unmetered idle fuel pressure, set idle speed. After inspection ran up engine no leaks noted and ops. Check O.K. I certify that this engine has been inspected IAW a annual inspection and is airworthy at this time and is approved for return to service.

Signature: _____

Steven Wolff IA 16629146

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