

ENGINE LOG BOOK



Service Information

Consult the Continental Motors web site at continentalmotors.aero for engine related news or announcements. Continental Motors Internet Service contains useful information for Continental Motors engine owners, including electronic versions of the most current engine Instructions for Continued Airworthiness and service bulletins that may be pertinent to your engine model.

If internet access is not available, contact our Customer Service Department at:
1-888-826-5465 Toll free in the United States or
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: 9/26/2013

Test Date: 9/25/2013

This engine model TSI0550K1B , serial number 1009114 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

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:
TSIO550K1B
ENGINE S/N: 1009114
REG. NO: N458TC
WORK ORDER: 50367

Turbine Aircraft Services LLC

7101 Millionaire Drive, Hangar 21
Bethany, Oklahoma 73008

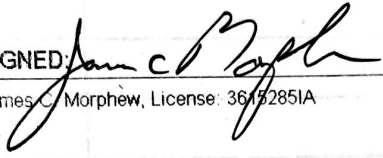
DATE: 11/19/2013
A/C TSN: 25 3
ENG TT: 25 3
TSMOH:
HOBBS: 25 3

Engine Entries

(1) Changed oil and filter, inspected old filter, no metal found by visual inspection. Installed new filter P/N CH48108-1 and serviced engine with 8 quarts Phillips 20w50M oil. Engine ground run normal, no leaks noted. Oil sample taken for analysis.

The Engine and/or component(s) items identified above were repaired and inspected in accordance with current Federal Aviation Regulations and was found Airworthy for return to service.

DATE: 11/19/2013

SIGNED: 
James C. Morphew, License: 36122851A

Work Order: 50367

Printed by EBis 3 (datcomedia.com)



Autopilots Central, Inc.

Hangar 23, Tulsa International Airport - Tulsa, OK 74115
 P.O. Box 582108 - Tulsa, OK 74158
 (918)836-6418 - Fax (918)832-0136
 FAA CRS CM2R747K
 Logbook Entry

Sold To: Synergy Aviation LLC
 6303 N. Portland Ave. Suite 305
 Oklahoma City, OK 73112-1411

Work Order: MA13-04272
 Acct Number: (405)702-0901

Opened: 12/30/2013
 Closed: 1/02/2014

Aircraft Number: N458TC		Type: SR22T		S/N: 0637			
Total Time: 46.0		Hobbs Time: 46.0		Tach Time: LG Cycles:			
Eng#	Type	S/N	Time	Cycles	Prop Type	Prop S/N	Prop Time
1	TSIO-550K1B	1009114	46.0		PHC-J3Y1F-IN	NJ812B	46.0

Discrepancy: 1

Action Taken:

Completed CMX 1st 25 hour and 50 hour inspections. Oil change only was completed on initial 25 hours.

1. Completed Engine 100 hour inspection items.
2. Compression readings: 1-74, 2-76, 3-72, 4-70, 5-72 & 6-70 over 80 psi. Master orifice reading was 48 psi.
3. Removed, cleaned and visually inspected the spark plugs. Re-installed using new gaskets.
4. Inspected and cleaned the air induction filter element.
5. Inspected fuel injection nozzles for fuel stains, security and proper venting.
6. Serviced the gascolator.
7. Visually inspected fuel system for leaks.
8. Inspected exhaust system.
9. Visually inspected engine for leaks and loose fasteners.
10. Verified fuel settings law TCM SID 97-3.
11. Serviced the tires with nitrogen.
12. Inspected the brakes and temperature indicators.
13. Inspected #1 battery and connectors for general condition.

Completed CMX 50 Hour interval items:

1. Changed the oil and filter. Inspected the old filter and found it clean. Installed new filter and 8 qts of Phillips 20W50XC oil. Inspected for leaks.
2. Checked operation of the air induction alternate air flapper valve.
3. Completed inspection of cylinder drains.
4. Completed operational inspection law Cirrus maintenance manual chapter 5-30.

Note:

This Discrepancy is covered under warranty.

Part Number	Description	Credit	Quantity	Units	Unit Price	Extended
20W50XC	Phillips Detergent Oil		8.00	Each	\$	
	This part is covered under warranty.					
AA48108-2	Oil Filter		1.00	Each	\$	
	This part is covered under warranty.					
M674	Gasket		12.00	Each	\$	
	This part is covered under warranty.					
MS29513-137	O-Ring		1.00	Each	\$	
	This part is covered under warranty.					
NAS1523-8B	Stat-O-Seal		1.00	Each	\$	
	This part is covered under warranty.					

Discrepancy: 2

Action Taken:

Tanis heater has not worked since new. Inspected system and found fuse was open. Checked probes and found the probe in the #1 cylinder was shorted. Replaced the probe and observed normal operation. Auth: 00124402 ATA 71.00.000

Note:

This Discrepancy is covered under warranty.

Autopilots Central, Inc.
 Hangar 23, Tulsa International Airport - Tulsa, OK 74115

Mainte
 ding en
 actions,
 d Service

Part Number	Description	Credit	Quantity	Units	Unit Price	Extended
TT02771-115/50	Heat Element, Threaded		1.00	Each		\$
	This part is covered under warranty.					
	Freight		1.00			\$

Discrepancy: 3

Action Taken:

% power is intermittent above 16,000'. Could not duplicate on test flight.

Discrepancy: 4

Action Taken:

Serviced the TKS system with 4.25 gallons of de-ice fluid.

Part Number	Description	Credit	Quantity	Units	Unit Price	Extended
TKS-9001	De-Icing Fluid/Gallon		4.25	Gallon		\$

Discrepancy: 5

Action Taken:

Serviced the oxygen system with Aviator Oxygen.

Discrepancy: 6

Action Taken:

Inspected the elevator hinge pins law Cirrus SA 13-05. Found the hinge pins tight law the Cirrus maintenance manual.

Miscellaneous Charges:

Misc Supplies: \$

Totals:

SubTotal:	\$
Less Warranty Labor:	\$
Less Warranty Parts:	\$
Charges:	\$

The articles and/or work hereon described is/are certified
 airworthy (unless otherwise specified).
 Autopilots Central, Inc.
 FAA CRS CM2R747K

Authorized Signature *Steve Collins*

Parts installed may be FAA/PMA'd or STC's parts and not of "Original Equipment Manufacture" (OEM) and as such are not covered by the OEM's Warranty.

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
ed forward	→				



Hangar 23, Tulsa International Airport-Tulsa, OK 74115
(918)836-6418

Date: 4/25/2014; Aircraft: N458TC

Completed Cirrus 100 hour CMX program items:

Inspected this engine using the Cirrus Aircraft and Continental Motors instructions for continued airworthiness.

Changed the oil and filter. Inspected the old filter and found it clean. Obtained oil sample for analysis. Installed new filter and 8 qts of Phillips 20W50XC oil. Inspected for leaks. Compression readings: 1-74, 2-70, 3-75, 4-72, 5-74 & 6-74 over 80 psi. Master orifice reading was 46 psi. Removed, cleaned, gapped, tested and rotated the spark plugs.

Re-installed using new gaskets. Completed visual inspection of the fuel nozzles. No discrepancies noted at this time. Researched the Service Bulletins on this aircraft. Inspected the propeller using the Cirrus maintenance form.

Lubricated iaw the Hartzell maintenance manual. Re-set magneto timing to 24BTDC. Inspected oxygen system.

Adjusted fuel aneroid out 1/4 turn to increase fuel flow on take-off. Lubricated the pilots and co-pilots door latches.

Complied with Cirrus SA14-01 and CAV Aerospace SB: 13247-01-30-003 by inspection of the de-ice timer box s/n.

Timer box p/n: 13247-01 s/n: CAVIM13F0032 falls within affected timer boxes. Replaced the timer box wiring harness with Mod kit p/n: 13247-10. Installed label on box indicating that this service bulletin has been complied with. Cirrus Warranty

I certify this Aircraft has been inspected in accordance with a 100 Hour CMX inspection and was determined to be in airworthy condition this date.

W/O# MA14-04381 Date 4-25-2014 Flt. Hours 90.5 Hobbs: 121.8

Signature Steve Collins
Autopilots Central, Inc. FAA CRS CM2R747K



Hangar 23, Tulsa International Airport-Tulsa, OK 74115
(918)836-6418

Date: 9/03/2014; Aircraft: N458TC

Installed in-line pressure gage and measured the un-metered fuel pressure. Set the high and low fuel pressures iaw Continental Motors Inc. specifications section 6-3.7.1 in the engine maintenance and overhaul manual. Completed ground run and observed normal operation.

Complied with Cirrus 50 hour CMX scheduled maintenance items:

Changed the oil and filter. Inspected the old filter and found it clean. Obtained oil sample for analysis. Installed new filter and 8 qts of Phillips 20W50XC oil. Inspected for leaks.

Visually inspected the engine compartment for leaks and loose fasteners. Inspected the spark plug cable leads for chaffing and corrosion. Inspected the air intake ducts and filter. Checked the operation of the alternate air flapper valve. Inspected the exhaust system. Completed a magneto drop check.

I certify this Engine has been inspected in accordance with a 50 Hour inspection and was determined to be in airworthy condition this date.

W/O# MA14-04532

Hours Flt. Hours: 132

Signature Steve Collins
Autopilots Central, Inc. CRS CM2R747K

Carried



Hangar 23, Tulsa International Airport-Tulsa, OK 74115
(918)836-6418

Date: 12/18/2014; Aircraft: N458TC
Continental Motors TSIO-550-K1B s/n: 1009114. Engine 100 Hour Inspection.
WO: MA14-04635 Hobbs: 240.0 Flt. Hour: 188.1

Inspected this engine using the Cirrus Aircraft inspection form. Changed the oil and filter. Inspected the old filter and found it clean. Obtained oil sample for analysis. Installed new filter and 8 qts of Phillips 20W50XC oil. Inspected for leaks. Compression readings: 1-72, 2-67, 3-71, 4-69, 5-68 & 6-72 over 80 psi. Master orifice reading was 48 psi. Removed, cleaned, gapped, tested and rotated the spark plugs. Re-installed using new gaskets. Removed LH and RH Continental magnetos S6RSC-25P p/n: 10-500556-101 LH s/n: D13HA308 and RH s/n: D13HA305 and in their place installed new Continental magnetos p/n: 10-500556-101 LH s/n: D14FA078 and RH s/n: D14JA244. Complied with SB 2X-71-25 by installing inter-cooler flange stiffeners. Complied with Cirrus SA14-02R1 law Continental SIL14-4 by checking the belt driven alternator brace alignment. Replaced all 6 exhaust valve cover gaskets. Installed 16" of anti-chafe tape on the lower cowling.

I certify this Engine has been inspected in accordance with a 100 Hour inspection and was determined to be in airworthy condition this date.

Signature *Shene Collins*
Autopilots Central, Inc. CRS CM2R747K



Hangar 23, Tulsa International Airport-Tulsa, OK 74115
(918)836-6418

Date: 4/20/2015; Aircraft: N458TC
WO: MA15-04730 Hobbs: 298.1 Flt. Hours: 234.6

Complied with Cirrus CMX 50 Hour Interval maintenance.
Changed the oil and filter. Inspected the old filter and found it clean. Obtained oil sample for analysis. Installed new filter and 8 qts of Phillips 20W50XC oil. Inspected for leaks. Inspected oil lines and fittings for condition. Inspected spark plug cable leads for chaffing and corrosion. Completed visual inspection of induction system. Completed visual inspection of exhaust system. Inspected tires and serviced with nitrogen. Inspected brake linings and calipers. No defects noted. Serviced the oxygen system with Aviator oxygen.

The articles and/or work hereon described is/are certified airworthy (unless otherwise specified).

Autopilots Central, Inc.
FAA CRS CM2R747K
Authorized Signature *Shene Collins*



Autopilots Central, Inc.
 3112 North 74th East Avenue
 Tulsa International Airport - Tulsa, OK 74115
 (918)836-6418 - Fax (918)832-0136
 FAA CRS CM2R747K
 Logbook Entry

Sold To: Synergy Aviation LLC
 6303 N. Portland Ave. Suite 305
 Oklahoma City, OK 73112-1411

Work Order: MA15-04843
 Acct Number: (405)702-0901

Opened: 7/14/2015
 Closed: 7/17/2015

General Comments:							
Flight HM 290.5 hrs. Hobbs HM 364.9 hrs.							
Aircraft Number:	N458TC						
Type:	SR22T						
S/N:	0637						
Eng#	Type	Time	Cycles	Prop Type	Prop S/N	LG Cycles	Prop Time
1	TS10-550K1B	1009114	290.5	PHC-J3Y1E-IN	NJ812B		290.5

Discrepancy: 1
Problem:
 Airframe 50 & Engine 100 Hour Inspections are due per Cirrus CMX program.

Action Taken:
 N458TC Cirrus SR22T - 0637 Fit Hr 290.5 CMX 50 & 100 Hour Inspection.
 Inspected this Aircraft and Engine per the Cirrus CMX 50 / 100 hour and Continental 100 hour inspection items. Changed oil and filter, serviced with 8qts Phillips 20W50XC. Cut and inspected old oil filter. Installed new oil filter assembly. Adjusted manifold pressure and fuel flow with oil temperature at 200 degrees. Accomplished cylinder compressions with the following results: 1=76, 2=68, 3=72, 4=73, 5=72, 6=74. Re-torqued all rocker cover gaskets. Removed, cleaned, inspected, gapped and re-installed all spark plugs using new gaskets. Installed new chaff tape on lower engine cowling. Removed left hand brake cylinder, cleaned, inspected, installed new brake cylinder o-rings, reinstalled and bled brake system. Installed new brake temperature indicators and new brake linings on left hand brake. Re-attached left hand gear brake line tie downs. Re-secured left hand gear strut failing chaff pads. Ground run for operational and leak checks.

I certify this aircraft and Engine has been inspected with the Cirrus CMX 50 & 100 hour / Continental 100 hour inspection items and was determined to be in airworthy condition on this date.
 W/O MA15-04843
 Date 7/16/2015
 Flt Hrs. 290.5
 Signature *Ralph P. Stohle*
 Autopilots Central, Inc.
 Tulsa, OK 74115
 FAA CRS CM2R747K

Note:
 This Discrepancy is covered under warranty.

Part Number	Description	Credit	Quantity	Units	Unit Price	Extended
066-06200	Lining		4.00	Each	\$	
	This part is covered under warranty.					
101-34500	O-Ring		2.00	Each	\$	
	This part is covered under warranty.					
20W50XC	Phillips Detergent Oil		8.00	Each	\$	
	This part is covered under warranty.					
50561-045	Tape, Wing Root/Inch		24.00	Inch	\$	
	This part is covered under warranty.					
51401-063U	Foam Tape/Ft.		1.00	Each	\$	
	This part is covered under warranty.					
51698-001	Brake Temperature Label (BLUE)		1.00	Each	\$	
	This part is covered under warranty.					
51698-003	Brake Temp Label (YELLOW)		1.00	Each	\$	

Dal

Autopilots Central, Inc.
 3112 North 74th East Avenue

	This part is covered under warranty.			
53722-063U	Tape, Cowl Seal/Inch	25.00	Each	\$
AA48108-2	Oil Filter	1.00	Each	\$
AOA	Oil Analysis Kit	1.00	Each	\$
M674	Gasket	6.00	Each	\$

Totals:				
SubTotal:				\$
Less Warranty Labor:				\$
Less Warranty Parts:				\$
Charges:				\$

The articles and/or work hereon described is/are certified airworthy, (unless otherwise specified).

Autopilots Central, Inc.
 FAA CRS CM2R747K

Authorized Signature *Ralph P. Stohle*

Hours Min

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



Autopilots Central, Inc.
3112 North 74th East Avenue
Hangar 23, Tulsa International Airport - Tulsa, OK 74115
(918)836-6418 - Fax (918)832-0136
FAA CRS CM2R747K
Logbook Entry

Sold To: Synergy Aviation LLC
6303 N. Portland Ave. Suite 305
Oklahoma City, OK 73112-1411

Work Order: **MA15-04982**
Acct Number: (405)702-0901

Opened: 11/09/2015
Closed: 11/16/2015

Aircraft Number:	N458TC	Type:SR22T	S/N: 0637
Eng#	Type	S/N	Time Cycles
1	TSIO-550K1B	1009114	310.7
			Prop Type
			PHC-J3Y1F-IN
			Prop S/N
			NJ812B
			Prop Time
			310.7

Discrepancy: 1

Problem:
OIL COOLER FITTINGS - THESE PARTS WERE RECEIVED FROM CONTINENTAL - WARRANTY MUST GO THRU CONTINENTAL PARTS WERE RECEIVED @ NO CHARGE. Comply with CMI CSB 15-7A.

Action Taken:
Complied with CMI CSB 15-7A. Grd run Aircraft , no oil leaks found at this time.

Note:
This Discrepancy is covered under warranty.

Part Number	Description	Credit	Quantity	Units	Unit Price	Extended
658607	Fitting, Cross		1.00	Each		\$
AN915-1J	Elbow, Pipe 45 Degrees		1.00	Each		\$

Totals:

SubTotal:	\$
Less Warranty Labor:	\$
Charges:	\$

The articles and/or work hereon described is/are certified airworthy, (unless otherwise specified).
Autopilots Central, Inc.
FAA CRS CM2R747K

Authorized Signature

Autopilots Central, Inc.
3112 North 74th East Avenue

Action Taken: Tightened air conditioner belt as per service instruction.				
Part Number MS21256-1	Description Clip	Credit	Quantity 2.00	Unit Price Extended
Miscellaneous Charges:				\$
Totals:				\$
SubTotal:				\$
Less Warranty Labor:				\$
Less Warranty Parts:				\$
Charges:				\$
Misc Supplies:				\$

The articles and/or work hereon described is/are certified airworthy, (unless otherwise specified).

Autopilots Central, Inc.
FAA CRS CM2R747K

Authorized Signature: 

Autopilots Central, Inc.
3112 North 74th East Avenue
Hangar 23, Tulsa International Airport - Tulsa, OK 74115
(918)836-8418 - Fax (918)832-0136
FAA CRS CM2R747K
Logbook Entry

Sold To: Synergy Aviation LLC
6303 N. Portland Ave. Suite 305
Oklahoma City, OK 73112-1411

Work Order: MA16-05108
Acct Number: (409)702-0901

Aircraft Number: N458TC Type: SR22T S/N: 0637
Total Time: 393.3 Hobbs Time: 393.3 Tach Time: 393.3
Eng# Type S/N Time Cycles Prop Type LG Cycles
1 TSIO-590K1B 1008114 393.3 PHC-JY1F-IN N4812B
Discrepancy: 1 Prop Time 393.3

Problem: Nose wheel pant missing access door. Case number 00154022 p/n: 26880-001-05
Action Taken: Removed nose wheel pant and installed new access panel and stripes, reinstalled nose wheel fairing.
Note: This Discrepancy is covered under warranty.

Part Number	Description	Credit	Quantity	Units	Unit Price	Extended
12343-XXX-NLG-LH	Stripes, LH NLG Wheel Pant		1.00	Each	\$	
26880-001-05	This part is covered under warranty.					
	Access Door, NLG, Sterling		1.00	Each	\$	
	This part is covered under warranty.					

Discrepancy: 2
Problem: SB 2X-52-08R1 Gas strut replacement.
Action Taken: C/W SB 2X-52-08 R1 Catcher/ Diverter and gas strut replacement. ATA 52.10.007
Note: This Discrepancy is covered under warranty.

Discrepancy: 3
Problem: Oil and filter change.

Action Taken: Changed oil and filter. Cut oil filler open media normal. Ground ran. Checked exterior lights, inspected wheels and brakes, operational check OK.

Part Number	Description	Credit	Quantity	Units	Unit Price	Extended
20W50XC	Phillips Detergent Oil		8.00	Each	\$	
AA48108-2	Oil Filter		1.00	Each	\$	
AOA	Oil Analysis Kit		1.00	Each	\$	

Discrepancy: 4
Problem: Could not get the Oil filter off. authorization 00157005.

Action Taken: Removed air conditioner compressor assembly to gain access to remove oil filter with strap wrench. ATA 79.20.000.
Note: This Discrepancy is covered under warranty.

Discrepancy: 5
Problem: Air conditioner belt loose.

Date

Hours Min Hours Min

Record maintenance actions including engine part removal installation and compliance with inspections, Airworthiness Directives

Carrier



Autopilots Central, Inc.
 3112 North 74th East Avenue
 Hangar 23, Tulsa International Airport - Tulsa, OK 74115
 (918)836-6418 - Fax (918)832-0136
 FAA CRS CM2R747K
 Logbook Entry

Autopilots Central, Inc.
 3112 North 74th East Avenue

FAA CRS CM2R747K

Signature Donald Cobb

Sold To: Synergy Aviation LLC
 6303 N. Portland Ave. Suite 305
 Oklahoma City, OK 73112-1411

Work Order: MA16-05151
 Acct Number: (405)702-0901

Opened: 4/22/2016
 Closed: 4/27/2016

General Comments:
 Hobbs time 497.6 Flight time 395.7
Aircraft Number: N458TC **Type:**SR22T **S/N:** 0637
 Total Time: 395.7 Hobbs Time: 395.7 Tach Time: LG Cycles:
Log# Type S/N Time Cycles Prop Type PHC-3Y1F-IN Prop S/N Prop Time
 1 TSO-550K1B 1009114 395.7 PHC-3Y1F-IN NJ812B 395.7

Problem:
 Engine missing on takeoff.

Action Taken:
 Trouble shot system. Removed all spark plugs cleaned, inspected, tested and reinstalled. Removed starter Skytec model # C24ST3 s/n 4C3-291310 and starter adapter p/n 658441. Installed new starter adapter p/n 658440A3 and Energizer starter p/n 649275, s/n H-Q-101618. Removed oil filter, cut and inspected for debris. Installed new oil filter. Re-torqued all valve cover gaskets and cleaned. Starter adapter ATA:80.10.004 Starter ATA: 80.10.001

Note:
 This discrepancy is covered under warranty.

Part Number	Description	Credit	Quantity	Units	Unit Price	Extended
338-063U	Tape, Cowl Seal/inch		6.00	Inch	\$	
	This part is covered under warranty.					
6275-1	Starter		1.00	Each	\$	
	This part is covered under warranty.					
	S/N: H-Q-101618					
53470	Core Charge		1.00	Each	\$	
	Gasket, TCM Starter Adapter		1.00	Each	\$	
	This part is covered under warranty.					
58440A3-E	Starter Adapter		1.00	Each	\$	
	This part is covered under warranty.					
	Core Charge		1.00	Each	\$	
	Freight		1.00		\$	
VA48108-2	Oil Filter		1.00	Each	\$	
	This part is covered under warranty.					
AS9021-038	O-Ring		1.00	Each	\$	
	This part is covered under warranty.					

Part Number	Description	Credit	Quantity	Units	Unit Price	Extended
AVGAS	AVGAS		38.60	Gallon	\$	
Totals:						

SubTotal:	\$
Less Warranty Labor:	\$
Less Warranty Parts:	\$
Charges:	\$

The articles and/or work hereon described is/are certified airworthy, (unless otherwise specified).
 Autopilots Central, Inc.

Engine Service and Maintenance Record

Total Time		Time Since Last Overhaul		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	



Autopilots Central, Inc.
 3112 North 74th East Avenue
 Tulsa International Airport - Tulsa, OK 74116
 (918)336-0418 - Fax (918)832-0136
 FAA ORS CM2R747K
 Logbook Entry

Hours Min Hours Min

installation and compliance with inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins

Sold To: Synergy Aviation LLC
 6303 N. Portland Ave. Suite 306
 Oklahoma City, OK 73112-1411

Work Order: MA16-05151
 Acct Number: (405)702-0901

Opened: 4/22/2016
 Closed: 4/27/2016

General Comments:
 Hobbs time 497.6 Flight time 395.7

Aircraft Number: N480TC **Type:** SR22T **S/N:** 0937

Eng# Type **B/N** **Hobbs Time:** **Tach Time:** **LG Cycles:**
 1 TS10-550K1B 1009114 395.7 395.7 P110 J3Y1F JN N4812B
 Prop Time 395.7

Discrepancy: 1
Problem:
 Engine misfiring on takeoff.

Action Taken:
 Trouble shot system. Removed all spark plugs cleaned, inspected, tested and reinstalled. Removed starter Skylec model # C24ST3 s/n 4C3-291310 and starter adapter p/n 658441. Installed new starter adapter p/n 658440A3 and Energizer starter p/n 649276, s/n H-Q-101618. Removed oil filter, cut and inspected for debris. Installed new oil filter. Re-torqued all valve cover gaskets and cleaned. Starter adapter ATA: 60-10-004 Starter ATA: 60-10-001

Note:
 This Discrepancy is covered under warranty.

Part Number	Description	Credit	Quantity	Units	Unit Price	Extended
53336-063U	Type, Cowl Seal/Inch This part is covered under warranty.		5.00	Inch	\$	
648276-1	Starter This part is covered under warranty.		1.00	Each	\$	
	S/N: H-Q-101618					
653470	Core Charge Gasket, TCM Starter Adapter This part is covered under warranty.		1.00	Each	\$	
658440A3-E	Starter Adapter This part is covered under warranty.		1.00	Each	\$	
AA46109-2	Core Charge Freight Oil Filter This part is covered under warranty.		1.00	Each	\$	
MS9021-038	O-Ring This part is covered under warranty.		1.00	Each	\$	

Part Number	Description	Credit	Quantity	Units	Unit Price	Extended
AVGAS	AVGas		35.50	Gallon	\$	

Totals:

SubTotal:	\$
Less Warranty Labor:	\$
Less Warranty Parts:	\$
Charges:	\$

The articles and/or work hereon described is/are certified airworthy, (unless otherwise specified).
 Autopilots Central, Inc.

Autopilots Central, Inc.
 3112 North 74th East Avenue

FAA ORS CM2R747K

Authorized Signature

Date	Overhaul				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 →

ENGINE MODEL:
TSIO550K1B
ENGINE S/N: 1009114
REG. NO: N458TC
WORK ORDER:
3243-08-2016



Classic Aviation, Inc.

501 W 15th St
Pella, IA 50219
Phone: 641-628-9393

DATE: 9/8/2016
A/C TSN: 442.9
ENG TT: 442.9
HOBBS: 442.9

Engine Entries

(3) Annual Inspection. Compression check #1 72/80, #2 70/80, #3 63/80, #4 70/80, #5 66/80, #6 73/80. Checked magneto to engine timing. Inspected intake and exhaust systems. Cleaned all fuel injectors and reinstalled with new seals. Cleaned, gapped and rotated spark plugs and reinstalled with new M-674 gaskets. Adjusted fuel injection system in accordance with Cirrus SR22/SR22T Maintenance Manual Chapter 71-20. Checked all applicable ADs and updated list in aircraft records.... (5) Changed oil and filter with new CH48108-1 filter and 7 qts Phillips X/C 20w50 oil. Took oil sample. Cut open old filter to check for contaminants, none found. Ran engine to check for leaks, no leaks noted at this time.... (15) Retorqued all exhaust rocker cover screws as needed. Performed leak check with no leaks noted at this time.

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

DATE: 9/8/2016

SIGNED: *Wm. Haven Hick*

Work Order: 3243-08-2016

Wm. Haven Hick, IA: 3428785

Printed by EBis 3 (datcomedia.com)

ENGINE MODEL:
TSIO550K1B
ENGINE S/N: 1009114
REG. NO: N715JK
WORK ORDER:
3446-01-2017



Classic Aviation, Inc.

501 W 15th St
Pella, IA 50219
Phone: 641-628-9393

DATE: 1/6/2017
A/C TSN: 503.1
ENG TT: 503.1
HOBBS: 503.1

Engine Entries

(1) Changed oil and filter with new CH48108-1 filter and 7 qts Phillips X/C 20W-50 oil. Took oil sample. Cut open old filter to check for contaminants, none found. Ran engine to check for leaks, no leaks noted at this time.

DATE: 1/6/2017

SIGNED: *Alex Ritter*

Work Order: 3446-01-2017

Alex Ritter, A&P: 3729474

Printed by EBis 3 (datcomedia.com)

ENGINE MODEL:
TSIO550K1B
ENGINE S/N: 1009114
REG. NO: N715JK
WORK ORDER:
3506-02-2017



Classic Aviation, Inc.

501 W 15th St
Pella, IA 50219
Phone: 641-628-9393

DATE: 2/17/2017
A/C TSN: 530.7
ENG TT: 530.7
HOBBS: 530.7

Engine Entries

(1) Changed oil and filter with new CH48108-1 filter and 7 qts Phillips X/C 20/50 engine oil. Took oil sample. Cut open old filter to check for contaminants, none found. Ran engine to check for leaks, no leaks noted at this time.

DATE: 2/17/2017

SIGNED: *Alex Ritter*

Work Order: 3506-02-2017

Alex Ritter, A&P: 3729474

Printed by EBis 3 (datcomedia.com)

ENGINE MODEL:
TSIO550K1B
ENGINE S/N: 1009114
REG. NO: N715JK
WORK ORDER:
3588-04-2017



Classic Aviation, Inc.

501 W 15th St
Pella, IA 50219
Phone: 641-628-9393

DATE: 4/10/2017
A/C TSN: 565.4
ENG TT: 565.4
HOBBS: 565.4

Engine Entries

(1) Replaced engine oil and filter with new filter P/N CH48108-1 and 7 qts Phillips 20/50 X/C oil. Took oil sample. Cut open old filter to check for contaminants, none found. Ran engine to check for leaks, none noted at this time.

DATE: 4/10/2017

SIGNED: *Daniel Fredrickson*

Work Order: 3588-04-2017

Daniel Fredrickson, A&P: 3692229

Printed by EBis 3 (datcomedia.com)

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

Carried forward →

ENGINE MODEL:
TSIO550K1B
ENGINE S/N: 1009114
REG. NO: N715JK
WORK ORDER:
3673-05-2017



Classic Aviation, Inc.
501 W 15th St
Pella, IA 50219
Phone: 641-628-9393

DATE: 5/31/2017
A/C TSN: 616.1
ENG TT: 616.1
HOBBS: 616.1

Engine Entries

(1) Changed oil and filter with new CH48108-1 filter and 7 qts Phillips X/C 20/50 engine oil. Took oil sample. Cut open old filter to check for contaminants, none found. Ran engine to check for leaks, no leaks noted at this time.

DATE: 5/31/2017

SIGNED: *Alex Ritter*

Work Order: 3673-05-2017

Alex Ritter, A&P: 3729474

Printed by EBis 3 (datcomedia.com)

ENGINE MODEL:
TSIO550K1B
ENGINE S/N: 1009114
REG. NO: N715JK
WORK ORDER:
3721-06-2017



Classic Aviation, Inc.
501 W 15th St
Pella, IA 50219
Phone: 641-628-9393

DATE: 6/29/2017
A/C TSN: 626.4
ENG TT: 626.4
HOBBS: 626.4

Engine Entries

(1) Removed left magneto P/N 10-500556-101 (S/N- D14FA078) and right magneto P/N 10-500556-101 (S/N- D14JA244). Installed left magneto P/N 10-500556-101 (S/N- D17BA213R) and right magneto P/N 10-500556-101 (S/N- D16HA050R) both rebuilt by Continental Motors, Inc. with new base gasket P/N- 10-400613 and new harness gasket. Set magneto to engine timing to 24 degrees BTDC. Performed operational check and leak check, operational check good with no leaks noted at this time.... (2) Installed fuel pump P/N 649368-60A7 (S/N B15HA083) after repair by Great Planes Fuel Metering, Inc. under their work order # 17-350 dated June 27, 2017. Performed fuel system setup in accordance with Continental Manual M-18 Section 6-3.7.4. Performed leak check with no leaks noted.... (3) Installed new oil filter P/N CH48108-1.

DATE: 6/29/2017

SIGNED: *Alex Ritter*

Work Order: 3721-06-2017

Alex Ritter, A&P: 3729474

Printed by EBis 3 (datcomedia.com)

ENGINE MODEL:
TSIO550K1B
ENGINE S/N: 1009114
REG. NO: N715JK
WORK ORDER:
3780-07-2017



Classic Aviation, Inc.
501 W 15th St
Pella, IA 50219
Phone: 641-628-9393

DATE: 7/21/2017
A/C TSN: 652
ENG TT: 652
HOBBS: 652

Engine Entries

(1) Changed oil and filter with new CH48108-1 filter and 7 qts Phillips X/C 20/50 engine oil. Took oil sample. Cut open old filter to check for contaminants, none found. Ran engine to check for leaks, no leaks noted at this time.

DATE: 7/21/2017

SIGNED: *Alex Ritter*

Work Order: 3780-07-2017

Alex Ritter, A&P: 3729474

Printed by EBis 3 (datcomedia.com)

ARAPAHOE AERO

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

N715JK Continental TSIO-550-K(1)B S/N: 1009114

14 August 2017 Flight Hobbs: 0688.2 Hobbs Meter: 0849.7

Serviced engine with 7 quarts Phillips 20W50. Installed new oil filter. Old filter inspected. No ferrous contaminants noted. Removed and disassembled turbocharger oil inlet check valve. Cleaned and inspected per M-0. Installed and torqued. Ground run operational and leak checks satisfactory.

L. John Wells

L. John Wells A&P3221132

w/o 38266

1. Approving Civil Aviation Authority/Country: FAA/United States

AUTHORIZED RELEASE CERTIFICATE
FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG

3. Form Tracking Number: GPFM 17-350

4. Organization: Great Planes Fuel Metering, Inc
740 South 142nd East Ave, Tulsa Oklahoma 74108
CRS # 1GPR022B

5. Work Order/ Contract/ Invoice Number: 17-350

6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:
1	Fuel pump	649368-60A7	1	B15HA083	Test / Repair

12. Remarks: Repair Spec GPL1000 Rev 2 5/20/12.

13a. Certifies the items identified above were manufactured in conformity to:
 Approved design data and are in a condition for safe operation.
 Non-approved design data specified in Block 13

14a. 14 CFR 43.9 Return to Service Other regulation specified in Block 12
Certifies that unless otherwise specified in Block 12, the work identified in Block 11 and described in Block 12 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

13b. Authorized Signature:
13c. Approval Authorization No:

14b. Authorized Signature: *David A. Dewell*
14c. Approval/Certificate No: 1GPR022B
14d. Name (Typed or Printed): David A. Dewell
14e. Date (dd/mm/yyyy): 27 Jun 2017

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article. The user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts aircraft from the airworthiness authority of the country specified in Block 1.

Type: TSIO-550-K, S/N: 1009114, Time: 713.90; Prop - Type: PHC-J3Y1F-1N, S/N: NJ812B, Time: 713.90
Flt: 713.9 Hobbs: 880.7.

Engine Work

Completed an Annual inspection in accordance with FAR 43, Appendix D. AD 16-16-12 (9/15/16) ECi Class 7176 cylinders failures, not applicable by ECi cylinders, not installed. AD 16-21-04 (11/18/16) Oil cooler cross fitting replacement in compliance by completion of CMI CSB 15-7A, 11/16/2015 @ 310.7 ACTT. Fitting p/n 658607 installed. Changed oil and filter p/n CH48108-1, took sample, cut filter, no metal noted. Serviced engine with 7 qts Phillips 20W50 X/C oil. Compression test as follows: #1) 65/80, #2) 60/80, #3) 30/80, #4) 65/80, #5) 24/80, #6) 58/80. Master Orifice: 43/80. Completed bore scope inspection of cylinders, noted #3 and #5 cylinder exhaust valves failing. Cleaned, gapped and rotated spark plugs. Ground run for ops and leak ck normal. All work performed in accordance with approved/current technical data.

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

Robert Kulp
AP3593428IA

Wisconsin Aviation - Madison
3606 Corben Court
Madison, WI 53704
608-268-5003



Wisconsin Aviation - Watertown
1741 River Drive
Watertown, WI 53094
920-261-4567

Record
removal and
ess Directives,

Date: 10/06/2017; Aircraft: N715JK; Type: CIRRUS SR22T; S/N: 0637; Hobbs: 713.90; Total Time: 713.90
Flt: 713.9 Hobbs: 880.7.

Engine Work

Re-installed CMI #3 cylinder s/n PGA8814-1 and CMI #5 cylinder PGA8814-2 after repair by Poplar Grove Airmotive, Inc., CRS# YYBR664L, Wo# 8814, dated 9/29/2017. Completed 300 hr fuel injector cleaning, next due 1013.9 ACTT. Replaced cylinder rocker cover gaskets (12ea) p/n APS-655705-S with new. Ground run for operational and leak check normal.

All work performed in accordance with approved/current technical data.

Clifford Sugden
AP2659994IA

Wisconsin Aviation - Madison
3606 Corben Court
Madison, WI 53704
608-268-5003



Wisconsin Aviation - Watertown
1741 River Drive
Watertown, WI 53094
920-261-4567

ENGINE MODEL:
TSIO550K1B
ENGINE S/N: 1009114
REG. NO: N715JK
WORK ORDER:
4006-12-2017



Classic Aviation, Inc.
501 W 15th St
Pella, IA 50219
Phone: 641-628-9393

DATE: 12/1/2017
A/C TSN: 757.7
ENG TT: 757.7
HOBBS: 757.7

Engine Entries

(1) Changed oil and filter with new CH48108-1 filter and 7 qts Phillips X/C 20/50 engine oil. Took oil sample. Cut open old filter to check for contaminants, none found. Ran engine to check for leaks, no leaks noted at this time.

DATE: 12/1/2017 SIGNED: Alex Ritter Work Order: 4006-12-2017
Alex Ritter, A&P: 3729474 Printed by EBis 3 (datcomedia.com)

Date: 4/05/2018; Aircraft: N715JK; Type: CIRRUS SR22T; S/N: 0637; Hobbs: 804.90; Total Time: 804.90
Flt: 804.9 Hobbs: 989.9.

Engine

Changed oil and filter p/n CH48108-1, cut filter, no metal noted. Serviced engine with 8 qts Aeroshell 15W50 oil. Ground run for ops and leaks check normal.

All work performed in accordance with approved/current technical data.

Clifford Sugden
AP2659994IA

Wisconsin Aviation - Madison
3606 Corben Court
Madison, WI 53704
608-268-5003



Wisconsin Aviation - Watertown
1741 River Drive
Watertown, WI 53094
920-261-4567

ENGINE MODEL:
TSIO550K1B
ENGINE S/N: 1009114
REG. NO: N715JK
WORK ORDER:
4271-05-2018



Classic Aviation, Inc.
501 W 15th St
Pella, IA 50219
Phone: 641-628-9393

DATE: 5/18/2018
A/C TSN: 833.4
ENG TT: 833.4
HOBBS: 833.4

Engine Entries

(1) Changed oil and filter with new CH48108-1 filter and 7 qts Phillips X/C 20/50 engine oil. Took oil sample. Cut open old filter to check for contaminants, none found. Ran engine to check for leaks, no leaks noted at this time.

DATE: 5/18/2018 SIGNED: Wm. Haven Hick Work Order: 4271-05-2018
Wm. Haven Hick, IA: 3428785 Printed by EBis 3 (datcomedia.com)

Aircraft Engine Test Verification

This document verifies that the engine model listed below has satisfactorily completed all testing listed below in accordance with CM standard engine testing specifications as approved by the FAA.

Engine Model TSEI0550K1B

Engine Serial Number 1009114

Testing Completed

Standard Acceptance Test:

Date of Completion 9/25/2013 Test Operator (31645)



Continental Motors, Inc.

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

Date

Total Time

Time Since Last Overhaul

Hours

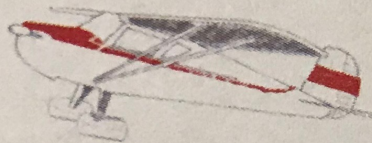
Min

Hours

Min

Carri

ENGINE MODEL:
TSIO550K1B
ENGINE S/N: 1009114
REG. NO: N715JK
WORK ORDER:
4619-12-2018



Classic Aviation, Inc.

501 W 15th St
Pella, IA 50219
Phone: 641-628-9393

DATE: 12/12/2018
A/C TSN: 897.4
ENG TT: 897.4
HOBBS: 897.4

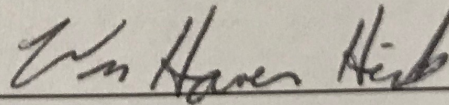
Engine Entries

(2) Annual Inspection. Compression check #1 67/80, #2 60/80, #3 72/80, #4 58/80, #5 71/80, #6 45/80, Master Orifice 44/80. Performed borescope inspection, with no defects noted. Checked magneto to engine timing. Inspected intake and exhaust systems. Cleaned all fuel injectors and reinstalled with new seals. Cleaned, gapped and rotated spark plugs and reinstalled with new M-674 gaskets. Checked fuel injection system in accordance with Cirrus SR22/SR22T Maintenance Manual Chapter 71-20 Continental Standard Practice Maintenance Manual Chapter 6. Checked all applicable ADs and updated list in aircraft records....
(4) Changed oil and filter with new CH48108-1 filter and 7 qts Phillips X/C 20/50 oil. Took oil sample. Cut open old filter to check for contaminants, none found. Ran engine to check for leaks, no leaks noted at this time.... (6) Installed (2) new Tempest spark plugs P/N URHB32E.

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

DATE: 12/12/2018

SIGNED:



Wm. Haven Hick, IA: 3428785

Work Order: 4619-12-2018

Printed by EBis 3 (datcomedia.com)