

N386AM

# ENGINE LOG BOOK



Publication ELB-01

NOV 2013

## Service Information

Consult the Continental Motors web site at [continentalmotors.aero](http://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 documents 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  
1-251-436-8299 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:

**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: 6/6/2014**

**Test Date: 6/5/2014**

This engine model TSI0550K1B, serial number 1010520 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	Total Time		Time Since Last Overhaul		<b>Engine Service and Maintenance Record</b>
	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-K (1)  
ENGINE S/N 1010520  
REG NO. N2218  
WORK ORDER 114827



**Clear Star Aviation**  
Repair Station No. 5CSR009B  
4765 Frank Luke Dr  
Addison, TX 75001  
Phone 972-267-2376

DATE: 8/15/2014  
A/C TSN: 252  
ENG TT: 252  
FLIGHTTIME: 252

**Engine Entries**

Inspected in accordance with the Cirrus 25HR Full Service Maintenance Program. Inspected engine in accordance with 100 hour inspection checklist per CMI manual. Cleaned and installed fuel injectors using new gaskets and seals.

Pertinent details of repair are on file at this Certified Repair Station 5CSR009B.

DATE: 8/15/2014

SIGNED:

Menge, Adam  
Certified Repair Station No. 5CSR009B

Work Order: 114827

Printed by EBis 3 (datcomedia.com)

				ENGINE RECORD ENTRY	
Registration	N2218	Cutter Aviation San Antonio, Inc. 367 Sandau Rd. San Antonio, Texas 78216 FAA Repair Station U7TR491Y Phone (210) 340-6780 Fax (210) 384-3394		Flight Time	89.7
Model No.	SR22T			Total Time	--
Serial No.	0823			PAGE 1 OF 1	
Engine Model	TSIO550K1B				
Engine S/N	1010520	1. DRAINED OIL, OBTAINED SAMPLE AND REMOVED FILTER. OPENED FILTER AND INSPECTED FOR METAL. NONE NOTED. INSTALLED NEW CH48108-1 OIL FILTER. SERVICED ENGINE WITH XC 20W50 OIL. GROUND RUN ENGINE, LEAK AND OPERATIONAL CHECK GOOD. WORK ACCOMPLISHED WITH REFERENCE TO THE CIRRUS AMM CHAPTER 12-10-00.			
THE AIRCRAFT/COMPONENT IDENTIFIED ABOVE WAS MAINTAINED OR ALTERED IN ACCORDANCE WITH CURRENT REGULATIONS OF THE FEDERAL AVIATION ADMINISTRATION AND IS APPROVED FOR RETURN TO SERVICE FOR THE WORK PERFORMED. ALL DISRUPTED SYSTEMS WERE RESTORED AND FUNCTIONALLY TESTED IN ACCORDANCE WITH MFG'S INSTRUCTIONS. PERTINENT DETAILS OF THE REPAIR ARE ON FILE AT THIS REPAIR STATION UNDER Work Order: 11M-3363					
Date:	6/8/2015	Authorized Signature:	Tom Bierschwale		

Continental TSIO-550-K, s/n 1010520, N2218, August 6, 2015, Hobbs: 127.6, Flight: 101.9. Compressions: #1 78/80, #2 74/80, #3 78/80, #4 78/80, #5 64/80, #6 78/80, all acceptable per S.B. 303.3. Drained oil and replaced filter, opened old filter for inspection, no debris noted. Serviced with Phillip's 20W50. Cleaned, gapped, and rotated spark plugs, replaced gaskets. C/W CMI ICA for turbocharger equipment. Pressure checked exhaust heat exchanger, no leaks noted. Checked magneto timing, found satisfactory. Ran up, checked for leaks, none noted. C/W SID97-3F/Cirrus M/M fuel pump check functional inspection. I certify that this engine has been inspected in accordance with a 100-hour inspection and was determined to be in an airworthy condition.

Signature R. W. McBride, Jr. AP2710158

Chuck's Aircraft LLC. Austin Executive Airport




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 →					

Continental TSIO-550-K, s/n 1010520, N2218, September 4, 2015, Hobbs: 135.0, Tach: 107.8. Replaced all rocker arm cover gaskets. Ran up and checked for leaks, none noted. Described maintenance is airworthy with respect to work performed.

Signature *R. W. McBride, Jr.* R. W. McBride, Jr. AP2710158

Chuck's Aircraft LLC., Austin Executive Airport

		 <b>Leading the Business of Aviation</b>		ENGINE RECORD ENTRY	
Registration	N2218	Cutter Aviation San Antonio, Inc. 367 Sandau Rd. San Antonio, Texas 78216 FAA Repair Station U7TR491Y Phone (210) 340-6780 Fax (210) 384-3394		Flight Time	120.4
Model No.	SR22T			Total Time	--
Serial No.	0823			PAGE 1 OF 1	
Engine Model	TSIO550K1B				
Engine S/N	1010520				
<p>1. COMPLIED WITH CONTINENTAL MOTORS CSB15-7A BY INSTALLATION OF NEW OIL COOLER CROSS FITTING P/N 658607. REFERENCE CSB INSTRUCTIONS AND TSIO550 SERIES MAINTENANCE AND OVERHAUL MANUAL M-18 SECTION 17. LEAK CHECKED GOOD.</p> <p>2. RETORQUED ALL VALVE COVER SCREWS TO 60 IN. LBS. LEAK CHECKED GOOD. REFERENCE TSIO550 MAINTENANCE AND OVERHAUL MANUAL APPENDIX B.</p>					
<p>THE AIRCRAFT/COMPONENT IDENTIFIED ABOVE WAS MAINTAINED OR ALTERED IN ACCORDANCE WITH CURRENT REGULATIONS OF THE FEDERAL AVIATION ADMINISTRATION AND IS APPROVED FOR RETURN TO SERVICE FOR THE WORK PERFORMED. ALL DISRUPTED SYSTEMS WERE RESTORED AND FUNCTIONALLY TESTED IN ACCORDANCE WITH MFG'S INSTRUCTIONS. PERTINENT DETAILS OF THE REPAIR ARE ON FILE AT THIS REPAIR STATION UNDER <b>Work Order: 11M-3553</b></p>					
Date:	11/19/2015	Authorized Signature:		<u><i>Tom Bierschwale</i></u> Tom Bierschwale	

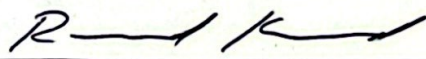


Date	Total Time		Time Since Last Overhaul		<b>Engine Service and Maintenance Record</b> Record maintenance actions including engine part removal and installation and compliance with inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
	Hours	Min	Hours	Min	
Carried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

		 Leading the Business of Aviation		ENGINE RECORD ENTRY	
Registration	N2218	Cutter Aviation San Antonio, Inc. 367 Sandau Rd. San Antonio, Texas 78216 Phone (210) 384-3388 Fax (210) 384-3394 CRS U7TR491Y		Fit hour meter	157.0
Model No.	SR22T			Engine TT	157.0
Serial No.	0823			PAGE 1 OF 1	
Engine Model	TSIO550K1B				
Engine S/N	1010520				

1. COMPLIED WITH A 100 HOUR INSPECTION IAW FAR43 APPENDIX D USING THE CIRRUS SR22 SERIES SCHEDULED INSPECTION REPORT AS A GUIDE.
2. DRAINED OIL, OBTAINED AOA SAMPLE AND REMOVED FILTER. OPENED FILTER TO CHECK FOR METAL CONTAMINATION. NONE FOUND. INSTALL NEW CH48108-1 FILTER. SERVICED ENGINE WITH 8 QTS OF PHILLIPS 20W50 OIL. LEAK CHECKED GOOD.
3. COMPRESSION CHECK RESULTS: 1-78/80 2-78/80 3-78/80 4-78/80 5-78/80 6-78/80
4. COMPLIED WITH 12 MONTH CLEANING OF FUEL INJECTOR NOZZLES. OPS CHECKED AND LEAK CHECKED GOOD. REFERENCED PERMOLD SERIES ENGINE MAINTENANCE AND OVERHAUL MANUAL.
5. COMPLIED WITH 12 MONTH FUNCTIONAL CHECK OF FUEL INJECTION SYSTEM. ADJUSTED FUEL PRESSURE AND IDLE SPEED AS NEEDED. REFERENCED SR22 SERIES MM 73-20.
6. INSTALLED ALL NEW CYLINDER VALVE COVER GASKETS P/N 655705. LEAK CHECK GOOD. REFERENCED CONTINENTAL TSIO-550 MM TABLE B-4.
7. INSTALLED NEW TUNED #1 CYLINDER FUEL INJECTOR NOZZLE P/N 657065-1515. OPS/LEAK CHECK GOOD. REFERENCED CONTINENTAL TSIO-550 OVERHAUL REPAIR AND REPLACEMENT MANUAL 10-3.3.
8. PERFORMED GROUND RUN WITH SATISFACTORY RESULTS.

I CERTIFY THAT A 100 HOUR INSPECTION HAS BEEN PERFORMED ON THIS ENGINE IN ACCORDANCE WITH FAR 43 Appendix D, AND HAS BEEN DETERMINED TO BE IN AIRWORTHY CONDITION AND IS APPROVED FOR RETURN TO SERVICE. Pertinent details of the repair/inspection is on file at this repair station under **Work Order: 11M-3849**

Date:	08/04/2016	Authorized Signature:		Richard Kurland
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		 Leading the Business of Aviation		ENGINE RECORD ENTRY	
Registration	N2218	Cutter Aviation San Antonio, Inc. 367 Sandau Rd. San Antonio, Texas 78216 FAA Repair Station U7TR491Y Phone (210) 340-6780 Fax (210) 384-3394		Flight Time	170.4
Model No.	SR22T			Total Time	170.4
Serial No.	0823			PAGE 1 OF 1	
Engine Model	TSIO550K1B				
Engine S/N	1010520				

1. INSTALLED ALL NEW CYLINDER VALVE COVERS P/N 658002 USING NEW GASKETS P/N 655705. REFERENCED TSIO550 MM TORQUE TABLE B-4. PERFORMED GROUND RUN. LEAK CHECK GOOD.
2. VERIFIED AD 2016-16-12 AMDT. 39-18610 CYLINDER HEAD TO BARREL SEPERATIONS AND CRACKED AND LEAKING ALUMINUM CYLINDER HEADS IS NOT APPLICABLE DUE TO AFFECTED ECI CYLINDERS ARE NOT INSTALLED AT THIS TIME. INSTALLED ENGINE HAS ORIGINAL CONTINENTAL CYLINDERS. NO ACTION REQUIRED.

THE AIRCRAFT/COMPONENT IDENTIFIED ABOVE WAS MAINTAINED OR ALTERED IN ACCORDANCE WITH CURRENT REGULATIONS OF THE FEDERAL AVIATION ADMINISTRATION AND IS APPROVED FOR RETURN TO SERVICE FOR THE WORK PERFORMED. ALL DISRUPTED SYSTEMS WERE RESTORED AND FUNCTIONALLY TESTED IN ACCORDANCE WITH MFG'S INSTRUCTIONS. PERTINENT DETAILS OF THE REPAIR ARE ON FILE AT THIS REPAIR STATION UNDER **Work Order: 11M-3879**

Date:	10/06/2016	Authorized Signature:		Richard Kurland
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Date	Total Time		Time Since Last Overhaul		<b>Engine Service and Maintenance Record</b>
	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 →

DATE: 7-17-2017  
 HR. MTR: 270.7  
 TOTAL TIME: 270.7

**FREDERICKSBURG AVIATION, LLC.**  
 465 AIRPORT ROAD  
 FREDERICKSBURG, TX 78624

N2218  
 TIME STO: 0823  
 SER.NO: 0823

Remove engine cowling, drain oil, take oil sample, remove oil filter and install new filter, p/n AA48108-2  
 Cut open filter and inspect for foreign matter, none found. Service engine with 8qt of Phillips X/C 20W50  
 Operational checked OK with no leaks found.

I certify that this engine has been serviced / inspected in accordance with current FAA regulations and is approved to return to service for work performed

*David Land* David Land A&P 3140576 I/A

ENGINE TIME: 207.2

DATE: 9-18-2017  
 HR. MTR: 225  
 TOTAL TIME: 225

**FREDERICKSBURG AVIATION, LLC.**  
 465 AIRPORT ROAD  
 FREDERICKSBURG, TX 78624

N2218  
 TIME STO: 0823  
 SER.NO: 0823

Accomplished Annual Inspection as required by FAR 91.409 and in the scope and detail of FAR 43.13 apd. D. And using Cirrus SR22T inspection guide in factory service manual.  
 Checked Compression #1-74/80, #2-70/80, #3-72/80, #4-72/80, #5-72/80, #6-78/80  
 A/D s checked through this date  
 Operational checked OK with no leaks found

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

*David Land* David Land A&P 3140576 I/A

DATE: 9-11-2018  
 HR. MTR: 335  
 TOTAL TIME: 335

**FREDERICKSBURG AVIATION, LLC.**  
 465 AIRPORT ROAD  
 FREDERICKSBURG, TX 78624

N2218  
 TIME STO: 0823  
 SER.NO: 0823

Remove engine cowling, drain oil, take oil sample, remove oil filter and install new filter, p/n AA48108-2  
 Cut open filter and inspect for foreign matter, none found. Service engine with 8qt of Phillips X/C 20W50  
 Operational checked OK with no leaks found.

I certify that this engine has been serviced / inspected in accordance with current FAA regulations and is approved to return to service for work performed

*David Land* David Land A&P 3140576 I/A

<sup>10-8</sup>  
 DATE: ~~9-18-2018~~  
 HR. MTR: ~~335.3~~ flight 264.7  
 TOTAL TIME: 335.3

**FREDERICKSBURG AVIATION, LLC.**  
 465 AIRPORT ROAD  
 FREDERICKSBURG, TX 78624

N2218  
 TIME STO: 1099  
 SER.NO: 1099

Accomplished Annual Inspection as required by FAR 91.409 and in the scope and detail of FAR 43.13 apd. D. and using Cirrus SR22T inspection guide in factory service manual. Remove engine cowling, .  
 Checked Compression #1-78/80, #2-70/80, #3-72/80, #4-72/80, #5-76/80, #6-70/80  
 A/D s checked through this date  
 Operational checked OK with no leaks found.

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

*David Land* David Land A&P 3140576 I/A




Total Time

Time Since Last Overhaul

# Engine Service and Maintenance Record



ENGINE RECORD ENTRY

Carrie

Registration	N2218
Model No.	SR22T
Serial No.	0823
Engine Model	TSIO550K1B
Engine S/N	1010520

Cutter Aviation San Antonio, Inc.  
 367 Sandau Rd.  
 San Antonio, Texas 78216  
 Phone (210) 384-3388 Fax (210) 384-3394  
 CRS U7TR491Y

FLIGHT HM	299.1
HM	380.4
ENGINE TT	299.1
TSOH	—

1. COMPLIED WITH A 100 HOUR INSPECTION IAW FAR43 APPENDIX D USING THE CIRRUS SR22 SERIES SCHEDULED INSPECTION REPORT AS A GUIDE.
2. DRAINED OIL, OBTAINED AOA SAMPLE AND REMOVED FILTER. OPENED FILTER TO CHECK FOR METAL CONTAMINATION. NONE FOUND. INSTALL NEW CH48108-1 FILTER. SERVICED ENGINE WITH 8 QTS OF PHILLIPS 20W50 OIL. LEAK CHECKED GOOD.
3. COMPRESSION CHECK RESULTS: 1-74/80 2-68/80 3-74/80 4-78/80 5-75/80 6-72/80
4. COMPLIED WITH 12 MONTH CLEANING OF FUEL INJECTOR NOZZLES. OPS CHECKED AND LEAK CHECKED GOOD. REFERENCE CONTINENTAL MANUAL FI-2.
5. COMPLIED WITH 12 MONTH FUNCTIONAL CHECK OF FUEL INJECTION SYSTEM. ADJUSTED IDLE MIXTURE AND IDLE SPEED AS NEEDED. REFERENCE SR22 SERIES AMM 73-20.
6. INSTALLED FACTORY REBUILT LEFT MAGNETO P/N BL-500556-101, S/N D19JA209R AND RIGHT MAGNETO P/N BL-500556-101, S/N D19JA213R. INSTALLED WITH NEW GASKETS P/N 649950 AND TIMED TO ENGINE. OPS CHECKED AND LEAK CHECKED GOOD.
7. PERFORMED GROUND RUN WITH SATISFACTORY RESULTS.

I CERTIFY THAT A 100 HOUR INSPECTION HAS BEEN PERFORMED ON THIS ENGINE IN ACCORDANCE WITH FAR 43 Appendix D, AND HAS BEEN DETERMINED TO BE IN AIRWORTHY CONDITION AND IS APPROVED FOR RETURN TO SERVICE. Pertinent details of the repair/inspection is on file at this repair station under **Work Order: 11M-5101**

Date: 11/14/2019

Authorized Signature:

T. BIERSCHWALE

Date: 01/21/2020 N2218  
 Tach/Hobbs: 391.6  
 ENGTG:

**Midwest Aviation Services, Inc.**  
 PO Box 219 (270)744-8686 Ph.  
 200 Hardy Roberts Dr. (270)744-3466 Fax  
 West Paducah, KY 42086 midwest-aviation.com

Performed compression check: #1 72/80 #2 70/80 #3 76/80 #4 72/80 #5 70/80 #6 74/80.  
 Removed oil filter for inspection, no contamination noted. Installed new oil filter P/N CH48108-1. Boroscoped cylinders, no defects noted. Washed and ground ran engine, no leaks noted.

The above work was performed in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. Details are on file at this repair station under shop order 14305.

SIGNATURE Chery Burnham for CRS MW8R657W

ENGINE MODEL:  
 TSIO-550-K1B  
 ENGINE S/N: 1010520  
 REG NO 386AM  
 WORK ORDER: 20862



**Kim Davidson Aviation, Inc.**  
 Repair Station No YYKR678L  
 2701 Airport Avenue  
 Santa Monica, CA 90405  
 Phone: (Maint 310-391-6293) (Avionics 310-391-0692)

DATE: 4/18/2020  
 A/C TSN: 317.6  
 ENG TT: 317.6  
 FLIGHTTIME: 317.6

### Engine Entries

Replaced oil with 8qts of Phillips 20W50. Blackstone oil sample taken. Removed oil filter, cut open & inspected for metal. No metal found at this time. Replaced oil filter w/new. Run up checks good and no leaks noted. —Inspected exhaust for soot, distortion & general condition. —Replaced Alternate Air Pipe Assy w/new. Function test of alternate air checked good. —Adjust engine RPM, Manifold & Fuel Flow per TCM & Cirrus SR22T MM Instructions.

Maintenance Release: The aircraft, airframe, engine, propeller or appliance identified above was Repaired or Inspected in accordance with current maintenance rules of the Federal Aviation Administration and is APPROVED FOR RETURN TO SERVICE.

DATE: 4/18/2020


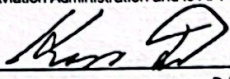

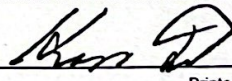

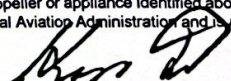
SIGNED:

Work Order: 20862

Kim Davidson  
 Certified Repair Station No. YYKR678L

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Date	Total Time		Time Since Last Overhaul		<b>Engine Service and Maintenance Record</b>
	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: TSIO-550-K1B ENGINE S/N: 1010520 REG. NO: 388AM WORK ORDER: 21227				<b>Kim Davidson Aviation, Inc.</b> Repair Station No. YYKR678L 2701 Airport Avenue Santa Monica, CA 90405 Phone: (Maint 310-391-6293) (Avionics 310-391-0692)	
DATE: 12/24/2020 A/C TSN: 370.5 ENG TT: 370.5 FLIGHTTIME: 370.5					
<b>Engine Entries</b>					
<p>I certify that this Engine has been Inspected in accordance with a 100Hr Inspection/Cirrus Annual Inspection Checklist and has been determined to be in <b>AIRWORTHY CONDITION</b>. —Performed engine compression check 1) 74/80 2) 74/80 3) 74/80 4) 74/80 5) 72/80 6) 76/80 Master Orifice 44 psi. —Replaced oil w/8 qts of Phillips 20W50 oil. Blackstone oil sample taken. Removed oil filter, cut open &amp; inspected for metal. No metal found at this time. Replaced oil filter w/new. Run up and no leaks noted. —C/W Inspection &amp; Cleaning of Engine; LH &amp; RH Air Induction Filters. —Adjust engine RPM &amp; Fuel Flow per TCM &amp; Cirrus SR22T MM Instructions. —AD 2020-16-11 Inspection &amp; Modification of Cylinders is Not Applicable per Engine Manufacture Date 6/2014 &amp; Part# of Cylinders Installed Are Not Affected. —C/W Inspection of Tanis Engine PreHeat System per Tanis Instructions for Continued Airworthiness Doc# TCA0001 Rev.B —C/W SB 2x-79-04 Improved Installation of Oil Pressure Sensor per Cirrus Service Bulletin Instructions. Removed cross fitting from oil cooler port &amp; Relocated oil psi sensor. Installed New Fittings in oil cooler ports &amp; New Aeroquip Hose for oil psi sensor and New Aeroquip Hose for turbo oil supply. Leak test checked good. —C/W SB 2x-79-07 R1 Oil Return Line Anti-Chafe Kit Installation per Cirrus Service Bulletin Instructions. —Replaced Exhaust Rocker Covers w/new &amp; rocker cover Gaskets w/new on #3, #4, #5 &amp; #6 Cylinders. Leak test checked good.</p>					
Maintenance Release: The aircraft, airframe, engine, propeller or appliance identified above was Repaired or Inspected in accordance with current maintenance rules of the Federal Aviation Administration and is APPROVED FOR RETURN TO SERVICE.					
DATE: 12/24/2020		SIGNED: 		Work Order: 21227	
		Kim Davidson Certified Repair Station No. YYKR678L		Printed by EBis 3 (datcomedia.com)	
ENGINE MODEL: TSIO-530-K13 ENGINE S/N: 1010520 REG. NO: 388AM WORK ORDER: 21328				<b>Kim Davidson Aviation, Inc.</b> Repair Station No. YYKR678L 2701 Airport Avenue Santa Monica, CA 90405 Phone: (Maint 310-391-6293) (Avionics 310-391-0692)	
DATE: 4/9/2021 A/C TSN: 406.5 ENG TT: 406.5 FLIGHTTIME: 466.5					
<b>Engine Entries</b>					
<p>Replaced oil with 8qts of Phillips 20W50 oil. Blackstone oil sample taken. Removed oil filter, cut open &amp; inspected for metal. No metal found at this time. Replaced oil filter w/new. Run up checks good and no leaks noted. —Inspected exhaust for soot, distortion &amp; general condition. —Removed Sky-Tec starter s/n 4C3-18144C. Installed New TCM 646275-1 starter s/n H-O-071938. Replaced starter o-ring w/new. Function &amp; Leak test checked good. W&amp;B has Changed, See aircraft POH for W&amp;B dated 4/2021. —Replaced/Crimped new ring terminal onto output wire for #2 Alternator. Reinstalled #2 Alt. s/n H-0040254, Aligned &amp; Adjusted belt tension. Torque alternator mounting bolt &amp; tension arm bolts per TCM MM Instructions. Function test checked good.</p>					
Maintenance Release: The aircraft, airframe, engine, propeller or appliance identified above was Repaired or Inspected in accordance with current maintenance rules of the Federal Aviation Administration and is APPROVED FOR RETURN TO SERVICE.					
DATE: 4/9/2021		SIGNED: 		Work Order: 21326	
		Kim Davidson Certified Repair Station No. YYKR678L		Printed by EBis 3 (datcomedia.com)	
ENGINE MODEL: TSIO-550 K1B ENGINE S/N: 1010520 REG. NO: 388AM WORK ORDER: 21560				<b>Kim Davidson Aviation, Inc.</b> Repair Station No. YYKR678L 2701 Airport Avenue Santa Monica, CA 90405 Phone: (Maint 310-391-6293) (Avionics 310-391-0692)	
DATE: 8/3/2021 A/C TSN: 446.5 ENG TT: 446.5 FLIGHTTIME: 446.5					
<b>Engine Entries</b>					
<p>Removed engine TSIO-550-K s/n 1010520 for Prop Strike Inspection &amp; Repair by Pacific Continental. Engine TT: 446.5</p>					
Maintenance Release: The aircraft, airframe, engine, propeller or appliance identified above was Repaired or Inspected in accordance with current maintenance rules of the Federal Aviation Administration and is APPROVED FOR RETURN TO SERVICE.					
DATE: 8/3/2021		SIGNED: 		Work Order: 21560	
		Kim Davidson Certified Repair Station No. YYKR678L		Printed by EBis 3 (datcomedia.com)	



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 →					

**ENGINE LOGBOOK INSERT**

DATE: 08/DEC/2021  
TACH: N/A  
HOBBS: 446.5  
TOTAL TIME: 446.5  
TSMOH: N/A  
Work Order: Z9831

PACIFIC CONTINENTAL ENGINES, INC  
21 W EASY STREET, UNIT 103  
SIMI VALLEY, CA 93065  
(Air Agency #TZ3R885L)

MODEL: Cirrus SR22T  
S/N: 0823  
REG. #: N386AM  
Engine Model: TSIO-550-K  
Engine S/N: 1010520

1. This engine was removed by Kim Davidson Aviation (KSMO) for a propeller strike inspection. This is an in-service time continued repair. All engine accessories were reinstalled in as-is condition unless noted below.

2. This engine was disassembled, NDT inspected, visually and dimensionally inspected, reassembled, and test cell run-in performed. NDT inspection identified the following rejects: (1) camshaft (lobe corrosion), (12) lifters (face corrosion/wear), and (1) alternator drive hub (corrosion). No other defects were noted at this time. Customer crankshaft was repaired by Aircraft Specialties Service on FAA form 8130-3 #ASI-160289. Customer cylinders p/n 658178 s/n's AC14EA812, AC14EA797, AC14EB613, AC14EA783, AC14EA790, AND AC14EA792 were cleaned, NDT inspected, exhaust guides replaced, valve seats ground, intake valves refaced, valves lapped to seats, and barrels honed for standard ring finish. Exchange overhauled magnetos p/n's 10-500556-101 and BL-500556-101 s/n's D13JA021 and D11DA055R were overhauled by PCE on 8130-3 #'s Z9831, and Z9831-1. Exchange overhauled fuel pump assembly p/n 649368-60A1 s/n B12GA204 was provided by D&G Supply on 8130-3 #27791-1. Exchange overhauled alternator p/n 656802 s/n H-Q060740 was provided by Aerotech of Louisville on 8130-3 #141109. PCE provided a serviceable alternator drive hub assy p/n 646655. Customer oil cooler p/n 654585 s/n G04-2147-1205 was overhauled by Pacific Oil Cooler on 8130-3 #144509. Customer fuel nozzles were cleaned. Complied with the following CMI service bulletins: 639, 643C (magneto only), MSB645 (inspected cam 10-400166-4), 658, 669, 670, 00-10, MSB96-10B, and 96-11B. Final engine test cell run-in checked okay for leaks and boroscope inspections. Final cylinder compression numbers are the following: 1-74/80, 2-72/80, 3-76/80, 4-74/80, 5-74/80, and 6-76/80.


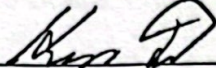

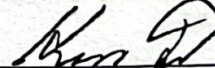

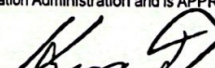
3. The following new parts were installed at this repair: 8-350998 bushing, 1-639189 plug, 1-536563 dowel, 1-642150 seal, 1-EQ7158 gasket set, 1-646592A2M010 bearing set, 1-629680M010 collar, 2-SA641909 plate, 4-SA649205 screw, 2-SA643626-104 pin, 2-SA643626-103 pin, 4-SA643626-105 pin, 16-SA643629 plate, 16-629104 ring, 16-639193 bushing, 6-SA536379 screw, 6-530658 bushing, 12-642398M010 bearing, 12-654490 nut, 12-655958 bolt, 6-654716P005 ring set, 8-SA641931-10.75 thru-bolt, 40-SA531001 nut, 12-SA652541 nut, 1-630873 dowel, 24-501868 washer, 24-537750 screw, 24-653188 washer, 12-1700-3 bushing, 1-632762 nut, 1-634150 spring, 1-CH48108-1 filter, 1-MS35756-8 key, 1-502287-3 ring, 1-X13041 bearing, 1-641368 bearing, 1-630680 bearing, 1-501867 washer, 1-633845 screw, 1-CAM539800M28 spring, 1-534685 bearing, 1-521649-3 ring, 4-655269 cushion, 2-10-357520 gasket, 1-658715 washer, 1-MS24665-302 pin, 1-642589 nut, 4-654439-15 hose, 4-654439-4 hose, 6-654439-2 hose, 12-MS35842-12 clamp, 6-SA646277 lifter, 6-sa628488 lifter, 1-654084 camshaft, 6-646985 seal, 6-636242 guide, 6-SA643873 valve, 12-SA654441 spring, 12-SA654442 spring, 24-24802 key, 6-652112 roto-coil, 1-646868 support, 1-656130 support, 1-643352 baffle, 1-655760 baffle, 12-RHB32E spark plug, and miscellaneous attaching hardware.

4. This engine was partially inspected and repaired in accordance with CMI manuals M-0, M-18, online CMI IPC, and current regulations of the FAA and is approved for return to service.

John Jackson

   
Chief Inspector




Date	Total Time	Time Since Last Overhaul	Engine Service and Maintenance Record
Record maintenance actions including engine part removal and Business Directives,			
Carried forward	ENGINE MODEL: TSIO-550-K1B ENGINE S/N: 1010520 REG. NO. 386AM WORK ORDER: 21560		 <b>Kim Davidson Aviation, Inc.</b> Repair Station No. YYKR678L 2701 Airport Avenue Santa Monica, CA 90405 Phone: (Maint 310-391-6293) (Avionics 310-391-0692)
DATE: 12/22/2021 A/C TSN: 446.5 ENG TT: 446.5 FLIGHTTIME: 446.5			
<b>Log Entries</b>			
<p>Reinstalled Engine TSIO-550-K s/n 1010520 after Inspection &amp; Repair by Pacific Continental Engines. See PCE engine log entry for details. Engine Total Time: 446.5 hrs.—Replaced oil w/8qts of Phillips 20W50 Mineral oil. Run up &amp; leak test check good.—Reinstalled all 6 engine rubber mount isolators after Visual Inspection of mounts. Replaced engine mount bolt Lock Tabs w/new. Torque engine mounts bolts per Cirrus MM Instructions.—Reinstalled Prop PHC-J3Y1F-1N s/n NJ946B after Overhaul by American Propeller. Replaced prop o-ring w/new. Prop Total Time: 446.5 hrs.—Reinstalled McCauley Prop Governor S-1-44F s/n G2020NJ after Overhaul by True Speed Aero Governors. Replaced prop governor gasket w/new.—Reinstalled original #2 Alternator &amp; alternator drive belt. Adjusted #2 Alt. belt tension per TCM MM Instructions. Function test checked good.—Adjusted engine RPM, Manifold &amp; Fuel Flow per Cirrus SR22T MM &amp; TCM Instructions.</p>			
<p>Maintenance Release: The aircraft, airframe, engine, propeller or appliance identified above was Repaired or Inspected in accordance with current maintenance rules of the Federal Aviation Administration and is APPROVED FOR RETURN TO SERVICE.</p>			
DATE: 12/22/2021      SIGNED:  Work Order: 21560 Kim Davidson      Certified Repair Station No. YYKR678L      Printed by EBis 3 (datcomedia.com)			
ENGINE MODEL: TSIO-550-K1B ENGINE S/N: 1010520 REG. NO. 386AM WORK ORDER: 21764			
 <b>Kim Davidson Aviation, Inc.</b> Repair Station No. YYKR678L 2701 Airport Avenue Santa Monica, CA 90405 Phone: (Maint 310-391-6293) (Avionics 310-391-0692)			
DATE: 12/23/2021 A/C TSN: 446.5 ENG TT: 446.5 FLIGHTTIME: 446.5			
<b>Engine Entries</b>			
<p>I certify that this Engine has been Inspected in accordance with a 100Hr Inspection/Cirrus Annual Inspection Checklist and has been determined to be in AIRWORTHY CONDITION.—C/W Inspection &amp; Cleaning of Engine; LH &amp; RH Air Induction Filters.—C/W Inspection of Tanis Engine PreHeat System per Tanis Instructions for Continued Airworthiness Doc# TCA0001 Rev.B—Installed New Tanis Heat Pad Element to bottom of oil pan per TANIS STC Instructions.</p>			
<p>Maintenance Release: The aircraft, airframe, engine, propeller or appliance identified above was Repaired or Inspected in accordance with current maintenance rules of the Federal Aviation Administration and is APPROVED FOR RETURN TO SERVICE.</p>			
DATE: 12/23/2021      SIGNED:  Work Order: 21764 Kim Davidson      Certified Repair Station No. YYKR678L      Printed by EBis 3 (datcomedia.com)			
ENGINE MODEL: TSIO-550-K1B ENGINE S/N: 1010520 REG. NO. 386AM WORK ORDER: 21790			
 <b>Kim Davidson Aviation, Inc.</b> Repair Station No. YYKR678L 2701 Airport Avenue Santa Monica, CA 90405 Phone: (Maint 310-391-6293) (Avionics 310-391-0692)			
DATE: 1/21/2022 A/C TSN: 474.2 ENG TT: 474.2 FLIGHTTIME: 474.2			
<b>Engine Entries</b>			
<p>Replaced oil with 8 qts of Phillips 20W50 Oil. Removed oil filter, cut open &amp; Inspected for metal. No metal found at this time. Replaced oil filter w/new. Run up &amp; no leaks noted.—C/W Visual Inspection of engine &amp; exhaust for leaks and general condition.</p>			
<p>Maintenance Release: The aircraft, airframe, engine, propeller or appliance identified above was Repaired or Inspected in accordance with current maintenance rules of the Federal Aviation Administration and is APPROVED FOR RETURN TO SERVICE.</p>			
DATE: 1/21/2022      SIGNED:  Work Order: 21790 Kim Davidson      Certified Repair Station No. YYKR678L      Printed by EBis 3 (datcomedia.com)			







Date	Total Time	Time Since Last Overhaul	<b>Engine Service and Maintenance Record</b>
	Hc		

ENGINE MODEL:  
TSIO-550-K1B  
ENGINE S/N: 1010520  
REG NO 386AM  
WORK ORDER: 22290



**Kim Davidson Aviation, Inc.**  
Repair Station No. YYKR678L  
2701 Airport Avenue  
Santa Monica, CA 90405  
Phone: (Maint 310-391-6293) (Avionics 310-391-0692)

DATE: 1/12/2023  
AC TSN: 596  
ENG TT: 596  
FLIGHTTIME: 596

removal and  
ss Directives,

Carried forward

**Engine Entries**

I certify that this Engine has been Inspected IAW Cirrus AMM 05-20 Annual Inspection Checklist & Continental M-(xx) Manual. Engine has been determined to be in AIRWORTHY CONDITION. Lubricated Engine per Cirrus AMM 12-20 lubrication schedule.—Performed Borescope Inspection of Cylinders IAW Continental M-(xx) Manual. No discrepancies noted.—Cylinder Differential Compression Check 1) 78/80 2) 78/80 3) 74/80 4) 78/80 5) 78/80 6) 78/80—Replaced oil w/8 qts of Phillips 20W50 oil. Blackstone oil sample taken. Removed oil filter, cut open & inspected for metal. No metal found at this time. Replaced oil filter w/new. Run up and no leaks noted. All work accomplished IAW Cirrus AMM 12-10 and Continental M-(xx) Manual.—C/W Inspection & Cleaning of Engine; LH & RH Air Induction Filters.—Performed Engine Operational & Function check per Cirrus AMM 5-30 Instructions.—C/W Inspection of Tanis Engine PreHeat System per Tanis Instructions for Continued Airworthiness Doc# TCA0001 Rev.B—Adjusted engine RPM, Manifold & Fuel Flow per Cirrus SR22T MM & Continental M-(xx) Manual.—C/W SB 2x-71-31 R1 Oil Line Chafing Inspection; Replaced Teflon Fire Sleeve Oil Hose w/new, Hose going from Oil Scavenge Pump to Oil Return Line Tee Fitting. Routed Oil Hose per Cirrus Service Bulletin Instructions to prevent chafing. Leak checked good.—Replaced All Spark Plugs w/new, Tempest URHB32E plugs, except #3 Cylinder - already has Tempest plugs installed.—Re-Timed Magneto's to engine IAW Continental M-(xx) Manual Instructions - 24.0° BTDC. Runup checked good.

Maintenance Release: The aircraft, airframe, engine, propeller or appliance identified above was Repaired or Inspected in accordance with current maintenance rules of the Federal Aviation Administration and is APPROVED FOR RETURN TO SERVICE.

DATE: 1/12/2023

SIGNED:

Kim Davidson  
Certified Repair Station No. YYKR678L

Work Order: 22290

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ENGINE MODEL:  
TSIO-550-K1B  
ENGINE S/N: 1010520  
REG NO 386AM  
WORK ORDER: 22826



**Kim Davidson Aviation, Inc.**  
Repair Station No. YYKR678L  
2701 Airport Avenue  
Santa Monica, CA 90405  
Phone: (Maint 310-391-6293) (Avionics 310-391-0692)

DATE: 2/13/2024  
AC TSN: 648.2  
ENG TT: 648.2  
FLIGHTTIME: 648.2

**Engine Entries**

This Engine Has Been Inspected IAW Cirrus AMM 05-20 Annual Inspection Checklist & Continental M-(xx) Manual. Engine Has Been Determined To Be In AIRWORTHY CONDITION. Lubricated Engine IAW Cirrus AMM 12-20 Lubrication Schedule.—C/W Cylinder Compression Check 1) 70/80 2) 74/80 3) 74/80 4) 78/80 5) 75/80 6) 76/80 Master Orifice 44 psi.—Replaced Oil w/8 qts of Phillips 20W50 Oil. Blackstone Oil Sample Taken. Removed Oil Filter, Cut Open & Inspected for Metal. No Metal Found at This Time. Replaced Oil Filter w/New. All Work Accomplished IAW Cirrus AMM 12-10 and Continental M-(xx) Manual.—C/W AD 84-26-02 Replacement of LH & RH Induction Air Filters w/New. AD 84-26-02 Air Filter Replacement Next Due @ 1148.2 hrs.—Performed Engine Operational & Function check per Cirrus AMM 5-30 Instructions.—C/W Inspection of Tanis Engine PreHeat System per Tanis Instructions for Continued Airworthiness Doc# TCA0001 Rev.B—Adjust Engine Idle RPM & Idle Fuel Mixture per Continental M-(xx) Manual.—AD 2023-02-12 Superior Air Parts Cylinders & Intake Valves, N/A per SAP Cylinders or Intake Valves Not Installed On Engine.—AD 2023-05-16 Continental Crankshaft Counterweight Inspection, N/A per Engine Serial# Not Listed On Continental MSB 23-01A.—AD 2023-09-09 Replacement of Spot Welded Multi-Segment Exhaust V-Band Couplings, N/A per Riveted V-Band Couplings Installed, Clamps Are Not Spot-Welded Type.—C/W Fuel Injection Nozzle Inspection & Cleaning; Replaced Fuel Nozzle O-rings & Seals w/New. Reinstalled & Torque Fuel Injector Nozzles IAW Continental M-(xx) Manual.

Maintenance Release: The aircraft, airframe, engine, propeller or appliance identified above was Repaired or Inspected in accordance with current maintenance rules of the Federal Aviation Administration and is APPROVED FOR RETURN TO SERVICE.

DATE: 2/13/2024

SIGNED:

Kim Davidson  
Certified Repair Station No. YYKR678L

Work Order: 22826

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DATE: 10/20/2023  
AC TSN: 639.2  
ENG TT: 639.2  
FLIGHTTIME: 639.2

**Kim Davidson Aviation, Inc.**

Repair Station No. YYKR678L  
2701 Airport Avenue  
Santa Monica, CA 90405  
Phone: (Maint 310-391-6293) (Avionics 310-391-0692)



ENGINE MODEL:  
TSIO-550-K1B  
ENGINE S/N: 1010520  
REG NO 386AM  
WORK ORDER: 22658

**Engine Entries**

Removed Oil Quick Drain Valve from Oil Sump Pan. Installed New Oil Drain Plug & Gasket in Oil Sump Pan. Leaked checked good.

Maintenance Release: The aircraft, airframe, engine, propeller or appliance identified above was Repaired or Inspected in accordance with current maintenance rules of the Federal Aviation Administration and is APPROVED FOR RETURN TO SERVICE.

DATE: 10/20/2023

SIGNED:

Kim Davidson  
Certified Repair Station No. YYKR678L

Work Order: 22658

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