

# ENGINE LOG BOOK



## 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 SPECIFICATIONS  
MANUAL OR TYPE CERTIFICATE  
USE OF AUTOMOTIVE FUEL  
OPERATOR'S  
DATA SHEET  
PROHIBITED**



# Continental Motors

FAA PRODUCTION CERTIFICATE NO. 508

Printed: 11/24/2018

Test Date: 11/17/2018


This engine model TSI0550K1B, serial number 1036683 was manufactured by Continental Motors, Inc. in accordance with approved design data and the applicable requirements of 14 CFR, Part 21. The approved design data for this engine incorporates all changes required by applicable FAA Airworthiness Directives and Continental Motors Service Bulletins.

*Thomas Howard*

**CONTINENTAL MOTORS, INC.**

Form 6012-03 (Rev Sept 2014)



Date	Total Time		Time Since Last Overhaul		Engine Service and Maintenance Record
	Hours	Min	Hours	Min	
09 JAN 2019	0	.0			<p>Record maintenance actions including engine part removal and installation and compliance with inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins</p> <p>Complied with Service Bulletin SB18-08 on ESN 1036683 with Cylinder Head S/N's:</p> <p>1) AC181A161 4) AC181A487 2) AC181A759 5) AC181A731 3) AC181A689 6) AC181A131</p> <p>Performed Non-Destructive Visual Inspection IAW M-0 Standard Practice Maintenance Manual Chapter 11. No Cracks were Found.</p> <p>Performed By: <u>Eric W Hunter</u> Date <u>09 JAN 2019</u></p> <p>Signature <u><i>Eric W Hunter</i></u> </p> <p>PC# 338CE</p>

wo: 20190009

Engine - page 1 of 1

TIDAL AVIATION

Tidal Aviation - 1900 Cardiff Road - Brookshire, TX 77423 - 713.589.4510 EXT #3


N523MK

January 23, 2019

Tach: 33.7

Hobbs: 41.3

Performed CMA 25 hour inspection. No discrepancies found. With respect to the work performed, this engine is approved for return to service. Details of work performed are on file with Tidal Aviation under work order: 20190009.

Jesse Ridgeway A&P 4172530 

ENGINE MODEL:  
TS10-550-K(1)  
ENGINE S/N: 1036683  
REG. NO: 523MK  
WORK ORDER: 3207



Chuck's Aircraft, LLC.

6200 Aviation Dr. AC101  
Austin Executive Airport  
Pflugerville, TX 78660  
Phone: 512-610-3111

DATE: 2/18/2019  
A/C TSN:  
ENG TT:  
TSMOH:  
TACH: 48.2

## Engine Entries

Performed CMX 50 hour inspections. Drained oil, collected Blackstone oil sample and replaced filter. opened old filter for inspection. Serviced with 7qt Phillips 20W-50 oil. Inspected exhaust system. Cleaned gascolator bowl filter. Ran up, checked for leaks, none detected.

Technicians Who Worked On The Items Listed Above:  
Chris Shaffer, Zach Young

Described maintenance is airworthy with respect to work performed.

DATE: 2/18/2019

SIGNED: 

Chris Shaffer, A&amp;P: 3502176

Work Order: 3207

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ENGINE MODEL:  
TS10-550-K(1)  
ENGINE S/N: 1036683  
REG. NO: 523MK  
WORK ORDER: 3272



Chuck's Aircraft, LLC.

6200 Aviation Dr. AC101  
Austin Executive Airport  
Pflugerville, TX 78660  
Phone: 512-610-3111

DATE: 4/8/2019  
A/C TSN: 105.4  
ENG TT: 105.4  
TSMOH:  
TACH: 105.4

## Engine Entries

Drained oil and replaced filter, took Blackstone sample, opened old filter for inspection, no dabrns noted. Serviced with Phillip's X/C 20W50 oil. Ran up, checked for leaks, none noted.

I certify this engine has been inspected in accordance with a 100-hour inspection and was found to be in airworthy condition.

DATE: 4/8/2019

SIGNED: 

Robert McBride, Jr., A&amp;P: 2710156

Work Order: 3272

Printed by EBis 3 (datcomedia.com)



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

Carried forward →

ENGINE MODEL  
TSIO-550-K(1)  
ENGINE S/N 1036683  
REG NO 523MK  
WORK ORDER 3286



### Chuck's Aircraft, LLC.

6200 Aviation Dr. AC101  
Austin Executive Airport  
Pflugerville, TX 78660  
Phone 512-610-3111

DATE 4/16/2019  
A/C TSN 125.4  
ENG TT 125.4  
TSMOH  
TACH 125.4

### Engine Entries

CAN 100-hour Demo Inspection. Compressions: #1 65/80, #2 70/80, #3 62/80, #4 62/80, #5 70/80, #6 68/80, M.O. = 44, all acceptable per M.O. Cleaned and rotated spark plugs. Cleaned fuel nozzles. Checked magneto timing. Pressure checked engine bay fuel system, no leaks noted. Ran up, performance satisfactory.

Described maintenance is airworthy with respect to work performed.

DATE: 4/16/2019

SIGNED:

Work Order: 3286

Robert McBride, Jr., A&P: 2710158

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ENGINE MODEL TSIO550K  
ENGINE S/N 1036683  
REG NO N523mk  
WORK ORDER TYS21275-05-2019

### Cirrus Design Factory Service Center

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

DATE 5/8/2019  
A/C TSN 138.3  
ENG TT 138.3  
TACH 138.3

### Engine Entries

(8) Drained engine oil. Serviced engine with 8 quarts of Phillips X/C 20W-50 engine oil. Replaced oil filter with new Tempest AA48108-2. Performed particulate inspection on old filter and found no unusual contamination. Leak check performed with no discrepancies noted. Work accomplished in accordance with Cirrus Aircraft SR-2X AMM 12-10.

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

DATE: 5/8/2019

SIGNED:

Work Order: TYS21275-05-2019

Philip Fellman  
Certified Repair Station No. YD5R855Y

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N523MK  
S/N: 848  
Continental  
S/N: 1036683

Cirrus SR 22

TSIO 550 K 1B



### Grey Hawk Aviation Services, LLC

9731 FM 775 Floresville, TX 78114

Engine

TTAF: 0188.2  
TTEN: 0188.2

Drained oil and replaced oil filter P/N CH48108-2. Cut filter open for inspection, no debris noted. Serviced with 8qts. Phillips X/C 20W50.

I certify that this engine is in airworthy condition with respect to work performed at this time.

Christopher Reeves 3424570 IA

7/19/2019



N523MK  
S/N: 2848  
Continental  
S/N: 1036683  
Hartzell  
S/N: NJ1862B

Cirrus SR 22T

IO550 K 1B

PHC-J3YF-1F1N



Grey Hawk Aviation Services, LLC

404 Boerne Stage Airfield  
Boerne, Tx. 78006

TTAF: 0205.9

TTEN: 0205.9

Engine

Performed an Annual / 100 hour Inspection IAW FAR 43 Appendix D and with reference to Continental EMM. Compressions as follows, #1) 78/80, #2) 79/80, #3) 76/80, #4) 78/80, #5) 78/80, #6) 79/80 M/O = 45. Drained oil and replaced filter P/N CH48108-1. Serviced with 8 qts. Phillips X/C 20W50 oil. Washed down engine. Cleaned engine oil sump screen. Clean, inspected and rotated all spark plugs. Pressure tested and inspected induction and exhaust systems. Cleaned and inspected. Induction air filter. Removed heat muff and re-installed, no defects noted. Timed magneto's. Inspected turbo chargers, no defects noted. Removed, cleaned and inspected all fuel nozzles. Checked AD's thru BI-weekly issue 2019-16. No new applicable AD's at this time.

I certify that this engine was inspected IAW an Annual / 100 hour Inspection and found to be in airworthy condition at this time.

Christopher Reeves 3424570 IA

8/4/2019

N523MK  
S/N: 2848  
Continental  
S/N: 1036683

Cirrus SR 22

TSIO 550 K 1B



Grey Hawk Aviation Services, LLC

404 Boerne Stage Airfield  
Boerne, Tx. 78006

TTAF: 0248.3

TTEN: 0248.3

Engine

Drained oil and replaced oil filter P/N CH48108-2. Cut filter open for inspection, no debris noted. Serviced with 8qts. Phillips X/C 20W50. I certify that this engine is in airworthy condition with respect to work performed at this time.

Christopher Reeves 3424570 IA

9/15/2019

N523MK  
S/N: 2848  
Continental  
S/N: 1036683  
Hartzell  
S/N: NJ1862B

Cirrus SR 22T

IO550 K 1B

PHC-J3YF-1F1N



Grey Hawk Aviation Services, LLC

404 Boerne Stage Airfield  
Boerne, Tx. 78006

TTAF: 0316.0

TTEN: 0316.0

Engine

Performed an Annual / 100 hour Inspection IAW FAR 43 Appendix D and with reference to Continental EMM. Compressions as follows, #1) 78/80, #2) 79/80, #3) 76/80, #4) 78/80, #5) 78/80, #6) 79/80 M/O = 45. Drained oil and replaced filter P/N CH48108-1. Serviced with 8 qts. Phillips X/C 20W50 oil. Washed down engine. Cleaned engine oil sump screen. Clean, inspected and rotated all spark plugs. Pressure tested and inspected induction and exhaust systems. Cleaned and inspected induction air filter. Removed heat muff and re-installed, no defects noted. Timed magneto's. Inspected turbo system, no defects noted. Removed, cleaned and inspected all fuel nozzles. Checked AD's thru BI-weekly issue 2019-21. No new applicable AD's at this time.

I certify that this engine was inspected IAW an Annual / 100 hour Inspection and found to be in airworthy condition at this time.

Christopher Reeves 3424570 IA

10/15/2019



N523MK  
S/N: 2848  
Continental  
S/N: 1036683

Cirrus SR 22  
TSIO 550 K 1B



Grey Hawk Aviation Services. LLC  
404 Boerne Stage Airfield  
Boerne, Tx. 78006

TTAF: 0360.4  
TTEN: 0360.4

Engine

Drained oil and replaced oil filter P/N CH48108-2. Cut filter open for inspection, no debris noted. Serviced with 8qts. Phillips X/C 20W50.  
I certify that this engine is in airworthy condition with respect to work performed at this time.

Christopher Reeves 3424570 IA

11/25/2019

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N523MK  
S/N: 2848  
Continental  
S/N: 1036683  
Hartzell  
S/N: NJ1862B

Cirrus SR 22T  
IO550 K 1B  
PHC-J3YF-1F1N



Grey Hawk Aviation Services. LLC  
404 Boerne Stage Airfield  
Boerne, Tx. 78006

TTAF: 0422.9  
TTEN: 0422.9

Engine

Performed an Annual / 100 hour Inspection IAW FAR 43 Appendix D and with reference to Continental EMM. Compressions as follows,  
#1) 77/80, #2) 79/80, #3) 77/80, #4) 78/80, #5) 79/80, #6) 79/80 M/O = 45. Drained oil and replaced filter P/N CH48108-1. Serviced with 8 qts.  
Phillips X/C 20W50 oil. Washed down engine. Cleaned engine oil sump screen. Clean, inspected and rotated all spark plugs.  
Pressure tested and inspected induction and exhaust systems. Cleaned and inspected. Induction air filter  
Removed heat muff and re-installed, no defects noted. Timed magneto's. Inspected turbo chargers, no defects noted.  
Removed, cleaned and inspected all fuel nozzles. Checked AD's thru Bi-weekly issue 2020-01. No new applicable AD's at this time.

I certify that this engine was inspected IAW an Annual / 100 hour Inspection and found to be in airworthy condition at this time.

Christopher Reeves 3424570 IA

1/18/2020

N523MK  
S/N: 1848  
Continental  
S/N: 1036683  
Hartzell  
NJ1832B

Cirrus SR 22  
TSIO 550 K 1B  
PHC-J3Y1F-1N



Grey Hawk Aviation Services. LLC  
404 Boerne Stage Airfield  
Boerne, Tx. 78006

TTAF: 0460.2  
TTEN: 0460.2

Engine

Drained oil and replaced oil filter P/N CH48108-2. Cut filter open for inspection, no debris noted. Serviced with 8qts. Phillips X/C 20W50.  
I certify that this engine is in airworthy condition with respect to work performed at this time.

Christopher Reeves 3424570 IA

2/25/2020

N523MK  
S/N: 2848  
Continental  
S/N: 1036683  
Hartzell  
S/N: NJ1862B

Cirrus SR 22T  
IO550 K 1B  
PHC-J3YF-1F1N



Grey Hawk Aviation Services. LLC  
404 Boerne Stage Airfield  
Boerne, Tx. 78006

TTAF: 0500.9  
TTEN: 0500.9

Engine

Performed an Annual / 100 hour Inspection IAW FAR 43 Appendix D and with reference to Continental EMM. Compressions as follows,  
#1) 78/80, #2) 79/80, #3) 77/80, #4) 78/80, #5) 78/80, #6) 79/80 M/O = 45. Drained oil and replaced filter P/N CH48108-1. Serviced with 8 qts.  
Phillips X/C 20W50 oil. Washed down engine. Cleaned engine oil sump screen. Clean, inspected and rotated all spark plugs.  
Pressure tested and inspected induction and exhaust systems. Cleaned and inspected induction air filter  
Performed both L/H and R/H magneto 500 hour inspections. Timed magneto's. Inspected turbo chargers, no defects noted.  
Removed, cleaned and inspected all fuel nozzles. Checked AD's thru Bi-weekly issue 2020-08/07. No new applicable AD's at this time.

I certify that this engine was inspected IAW an Annual / 100 hour Inspection and found to be in airworthy condition at this time.

Christopher Reeves 3424570 IA

3/27/2020



N523MK  
S/N: 1848  
Continental  
S/N: 1036683  
Hartzell  
NJ1832B

Cirrus SR 22  
TSIO 550 K 1B  
PHC-J3Y1F-1N



Grey Hawk Aviation Services. LLC  
404 Boerne Stage Airfield  
Boerne, Tx. 78006

TTAF: 0542.2  
TTEN: 0542.2

Engine

Drained oil and replaced oil filter P/N CH48108-2. Cut filter open for inspection, no debris noted. Serviced with 8qts. Phillips X/C 20W50.

Car I certify that this engine is in airworthy condition with respect to work performed at this time.

Christopher Reeves 3424570 IA

7/12/2020

N523MK  
S/N: 2848  
Continental  
S/N: 1036683  
Hartzell  
S/N: NJ1862B

Cirrus SR 22T  
IO550 K 1B  
PHC-J3YF-1F1N



Grey Hawk Aviation Services. LLC  
404 Boerne Stage Airfield  
Boerne, Tx. 78006

TTAF: 0595.6  
TTEN: 0595.6

Engine

Performed an Annual / 100 hour inspection IAW FAR 43 Appendix D and with reference to Continental EMM. Compressions as follows, #1) 78/80, #2) 79/80, #3) 78/80, #4) 78/80, #5) 79/80, #6) 79/80 M/O = 44. Drained oil and replaced filter P/N CH48108-1. Serviced with 8 qts. Phillips X/C 20W50 oil. Washed down engine. Cleaned engine oil sump screen. Replaced all spark plugs P/N: URHB32E. Pressure tested and inspected induction and exhaust systems. Replaced Induction air filters P/N: 27166-001. Removed heat muff and re-installed, no defects noted. Checked magneto timing. Inspected turbo chargers, and associated components, no defects noted. Removed, cleaned and inspected all fuel nozzles. Checked AD's thru Bi-weekly issue 2020-19-20. No new applicable AD's at this time.

I certify that this engine was inspected IAW an Annual / 100 hour inspection and found to be in airworthy condition at this time.

Christopher Reeves 3424570 IA

9/7/2020

N523MK  
S/N: 1848  
Continental  
S/N: 1036683  
Hartzell  
NJ1832B

Cirrus SR 22  
TSIO 550 K 1B  
PHC-J3Y1F-1N



Grey Hawk Aviation Services. LLC  
404 Boerne Stage Airfield  
Boerne, Tx. 78006

TTAF: 0613.4  
TTEN: 0613.4

Engine

Replaced all (12) spark plugs, Tempest P/N: URHB32E.

I certify that this engine is in airworthy condition with respect to work performed at this time.

Christopher Reeves 3424570 IA

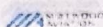
9/24/2020



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					

Carrier

ENGINE MODEL:  
TSIO550K1B  
ENGINE S/N: 1036683  
REG. NO. N523MK  
WORK ORDER: 0676



**Mistwood Aviation Services, LLC.**

18032 Edison Ave  
Chesterfield, MO 63005  
Phone: 314-200-2650

DATE: 26 October, 2020  
A/C TSN: 618  
ENG TT: 618  
TACH: 618

### Engine Entries

Performed Cirrus Certified Prebuy Evaluation per customer request.  
Performed engine compression check results as follows: #1 31/80, #2 71/80, #3 51/80, #4 64/80, #5 28/80, #6 49/80.  
Drained oil, removed filter and took oil sample. Installed new Tempest oil filter AA48108-2 and serviced engine with 8 quarts Phillips 20W50M.  
Performed Continental Motors 100 Hour Inspection IAW Cirrus SR22/SR22T Aircraft Maintenance Manual part number 13773-002 Rev. 3 dated 16 JAN 2020 and Continental Motors M-18 and M-0 manuals.  
Performed 100 Hour fuel injector inspection and cleaning IAW Continental Motors M-18 and M-0 manuals.  
Removed #1 engine cylinder, part number 658595A3, serial number AC18IA161. Installed new #1 cylinder; 658815A3 and serial number AC20HA290 IAW Continental Motors M-18 and M-0 Manuals.  
Removed #3 engine cylinder, part number 658595A3, serial number AC18IA689. Installed repaired #3 cylinder; same part and serial numbers IAW Continental Motors M-18 and M-0 Manuals. Cylinder repair completed by Continental Motors Services CRS 9CER853B see 8130 dated 12 OCT 2020 for details.  
Removed #5 engine cylinder, part number 658595A3, serial number AC18IA689. Installed new #5 cylinder; 658815A3 and serial number AC20HB799 IAW Continental Motors M-18 and M-0 Manuals.  
Removed #6 engine cylinder, part number 658595A3, serial number AC18IA131. Installed repaired #6 cylinder; same part and serial numbers IAW Continental Motors M-18 and M-0 Manuals. Cylinder repair completed by Continental Motors Services CRS 9CER853B see 8130 dated 12 OCT 2020 for details.  
Installed new engine fuel gasolator assembly; part number 14069-002, serial number 3283 IAW Cirrus SR22/SR22T AMM 28-20.  
Replaced #2 and #4 engine cylinders rocker box cover gaskets, part number 658735 IAW Continental Motors M-18 and M-0 manuals.  
Removed starter adapter; part number 658440A7, serial number 1741 and installed new starter adapter; part number 658440A8, serial number H-U072166 and new starter adapter scavenge hose, part number 646644Y10S16.00 IAW Continental Motors M-18 and M-0 manuals.  
Replaced fuel flow sending unit, part number 26370-002 IAW Cirrus SR22/SR22T AMM 73-30.  
Replaced right side engine baffle, part number 15471-006 IAW Cirrus SR22/SR22T AMM 71-00.  
Replaced left aft engine baffle, part number 15473-009 IAW Cirrus SR22/SR22T AMM 71-00.  
Removed left turbo; part number 646677, serial number H-VIL00062. Installed new left turbocharger; part number 646677, serial number H-VJL00130 IAW Continental Motors M-18 and M-0 manuals.  
Replaced Adel clamps mounted on engine weldment adjacent to the wastegate with high temperature clamps; MS21919WCJ16 and MS21919WCJ14.  
Replaced engine induction air filters, part number 27166-001 IAW Cirrus SR22/SR22T AMM 71-60.  
Replaced engine starter cable, part number 19815-030 IAW Cirrus SR22/SR22T AMM 24-30.

### Maintenance Release

This aircraft and/or component(s) on N523MK was repaired and inspected, with regards to the work performed, in accordance with current FARs 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. 0676, Dated 26 October, 2020.

DATE: 26 October, 2020

SIGNED

John Merriman, A&P: 2787167

Work Order: 0676

Printed by EBIS 3 (datcomedia.com)

Make/Model: Cirrus SR22T  
Serial No: 1848  
Registration: N523MK  
Date: April 14, 2017

645.5 Hours ACTT  
Continental TSIO 550 K 1B  
Engine S/N 1036683

Drained oil and replaced oil filter P/N AA48108-2. Cut filter open for inspection, no metal noted. Serviced with 7.5 quarts of Phillips 20W50M.

With respect to the above work this aircraft/engine is in airworthy condition.

Mark F. Helfrich

A&P 488669602

**N523MK**  
**CIRRUS SR22T SERIAL#**

2/3/2021  
TACH & TOTAL TIME: 694.9

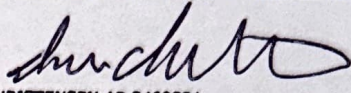
CHANGED OIL & FILTER SERVICED WITH PHILLIPS 20W-50. INSPECTED OLD FILTER, NO CONTAMINATES DETECTED, WASHED AND RAN ENGINE, NO LEAKS DETECTED.

DEAN CHRISTENSEN AP 3460321



Date	Total Time		Time Since Overhaul	<b>N523MK</b> <b>CIRRUS SR22T SERIAL#</b>	<b>2/3/2021</b> <b>TACH &amp; TOTAL TIME: 690.5</b>
	Hours	Min			
Carried forward →					

**COMPLIED WITH AIR WORTHINESS DIRECTIVE (AD) 2020-16-11 INSPECT FOR ENGINE CYLINDER CASTING FLAWS AND BLEND IF REQUIRED ---**  
  
 REVIEWED MAINTENANCE RECORDS DETERMINED #1, #3, #5 AND #6 CYLINDERS WERE PREVIOUSLY COMPLIED, (REPLACED WITH NEW OR REPAIRED), SEE MAINTENANCE RELEASES (FORM 8130-3)  
 INSPECTED #2 AND #4 CYLINDERS, FOUND CASTING FLAWS ALREADY BLENDED AND CYLINDER MARKED AS COMPLIED WITH. (VERIFIED ALL CYLINDERS ARE STAMPED WITH "S" INDICATING COMPLIANCE). REINSTALLED ENGINE COWLING, NO FURTHER ACTION REQUIRED.

  
 DEAN CHRISTENSEN AP 3460321

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## JET CENTER MFR

5000 Cirrus Drive  
 MEDFORD, OREGON 97504  
 (541) 770-5314 CRS: GCPRI85E  
 Engine Log Entry N523MK

Date: 06/04/2021

Flight Hobbs: 756.9  
 Hobbs: 909.0

- Accomplished 50hr inspection items in reference to Cirrus SR22T MM CH. 5-20. Operations and leak check good, no defects noted.
- Changed oil and filter (1ea CH48108-1 Filter, 8 quarts Phillips X/C 20W50 Oil).
- Ran engine, systems ops and leaked checked with no problems noted.

The component(s) identified above was inspected and repaired in accordance with current FARs and was found airworthy and is approved for return to service. Pertinent details on file at this agency under work order no. 36512

Gary Hudnall  
Digitally signed by Gary Hudnall  
 DN: cn=Gary Hudnall, o=Jet Center MFR,  
 email=gary.hudnall@jetcentermfr.com, c=US  
 Date: 2021.06.04 13:02:57 -0700

Gary Hudnall



## JET CENTER MFR

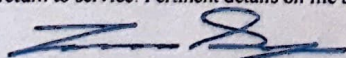
5000 Cirrus Drive  
 MEDFORD, OREGON 97504  
 (541) 770-5314 CRS: GCPRI85E  
 Engine Log Entry N523MK

Date: 10/19/2021  
 Total Time: 787.0  
 Flight Hobbs: 787.0  
 Hobbs: 941.7

Engine  
 TT: 787.0  
 TSO: N/A

- Accomplished 50/100 Hr inspection per FAR 43 Appendix D.
- Accomplished left and right magneto timing in reference to Continental Standard Practice MM CH. 6-4.9.1.2. Operations check good, no defects noted.
- Accomplished engine fuel system fuel set ups in reference to Continental Standard Practice MM CH. 6. Operations and leak check good.
- Compression Taken, Readings are: #1 76/80, #2 62/80, #3 72/80 #4 68/80 #5 68/80, #6 60/80. Note: minimum compression is 43/80 per master orifice.
- Changed oil and filter (1ea CH48108-1 Filter, 8 quarts Phillips X/C 20W50 Oil).
- Oil analysis was taken (1ea Blackstone Oil Analysis).
- Ran engine, systems ops and leaked checked with no problems noted.

The component(s) identified above was inspected and repaired in accordance with current FARs and was found airworthy and is approved for return to service. Pertinent details on file at this agency under work order no. 37052.



Torrance George, Inspector at Jet Center MFR  
 2021.10.19 13:41:27 -0700



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	



## JET CENTER MFR

5000 CIRRUS DRIVE  
MEDFORD, OREGON 97504  
(541) 770-5314 CRS: GCPR185E  
Engine Log Entry N523MK

Date: 11-4-2021  
Total Time: 787.6  
Flight Hobbs: 787.6  
Hobbs: 943.7

Engine  
TT: 787.6  
TSO: N/A

- 1) Adjusted Prop RPM as necessary to achieve rated take off RPM. No further defects noted.
- 2) Performed fuel set-ups in reference to Cirrus SR22T MM. CH. 73-20. No further defects noted.

The component(s) identified above was inspected and repaired in accordance with current FARs and was found airworthy and is approved for return to service. Pertinent details on file at this agency under work order no. 37205.

Jeremy Moon  
2021.11.04 11:18:19 -07'00'



### **N523MK Cirrus SR22T S/N:1848 Hobbs: 1114.0 Flight Hr: 924.2**

Drained oil, removed oil filter and inspected filter media finding no discrepancies. Installed new oil filter P/N AA48108-2 and filled with 8 quarts of Phillips XC 20W50. Leak check good. Work performed IAW Continental Maintenance Manual

Atlas Aviation Inc.  
4007 Airport Rd  
Plant City, FL 33563

Mary R Williamson A&P 4489830 10-MAY-2022



### **N523MK Cirrus SR22T S/N:1848 Continental TSIO-550-K S/N:1036683 Hobbs: 1148.3 Flight Hr: 952.5**

Drained oil, removed oil filter and inspected filter media finding no discrepancies. Installed new oil filter P/N AA48108-2 and filled with 8 quarts of Phillips XC 20W50. Leak check good. Work performed IAW Continental Maintenance Manual.

Atlas Aviation Inc.  
4007 Airport Rd  
Plant City, FL 33563

Carlos J Rosado A&P 4509500 29-Jun-2022



# 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 forw



**N523MK Cirrus SR22T S/N:1848 Continental TSIO-550-K**  
**S/N:1036683 Hobbs: 1194.0 Flight Hr: 992.3**

Drained oil, removed oil filter and inspected filter media finding no discrepancies. Installed new oil filter P/N AA48108-2 and filled with 8 quarts of Phillips XC 20W50. Leak check good. Work performed IAW Continental Maintenance Manual.

**Atlas Aviation Inc.**  
4007 Airport Rd  
Plant City, FL 33563

*Mary Williamson*

**Mary R. Williamson A&P 4489830 11-AUG-2022**



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



### Glendale Aero Services

6841 N. Glen Harbor Blvd  
Glendale, AZ 85307  
623-414-4935

Registration: **N523MK**

Date: 11/11/2022

Model: TSIO-550-K(1B)

S/N: 1036683

W/O: 80001557

Fit Hobbs: 1032.1 Hobbs: 1239.9

TSMOH: 1032.1

### ENGINE LOG

Complied with an Annual inspection IAW 14 CFR 43 Appendix D in reference to the Cirrus Aircraft SR22/22T annual inspection checklist CH 5-20 & Precise Flight ICA. AD's researched thru T-Data content rev 2022-23, see attached AD compliance list for details.

Complied with CMA SB20-02, Turbo check valve configuration inspection. Verified check valve is correct and no further action required. Mx performed IAW CMA SB20-02 dated 3/12/2020.

Complied with 300-Hour fuel injector cleaning. Removed existing fuel injectors. Ultrasonic cleaned with Hoppe's solvent and inspected, no defects found. Installed fuel injectors with 6 new copper washers P/N X1473, 12 new O-rings P/N 630979-9, 6 new rubber seal P/N 640612, 6 new seals P/N 633958-3, 2 new rubber seal p/n 633958-5. Performed a function/leak check, no leaks noted. MX performed IAW CMA TSIO-550K Engine Maintenance & Overhaul Manual M-16 Sec. 10-3.

Complied with 500-Hour magneto inspections. Removed cylinder #4 & #3 induction tubes to gain access to LH & RH magnetos. Removed existing RH magneto p/n BL-500556-101 s/n D20GA302P. Removed existing LH magneto p/n BL-500556-101 s/n D20GA281R. Installed a new RH magneto p/n BL-500556-101 s/n D22HA481R with a new gasket p/n 649954. Installed a new LH magneto p/n BL-500556-101 s/n D22HA491R with a new gasket p/n 649954. Adjusted magneto-to-engine timing into allowable limits. Re-installed cylinder #3 & #4 induction tubes using new gaskets p/n 649950 qty. 2. Mx performed IAW Continental maintenance and overhaul manual, publication M-18 & M-0, chapters 10-6.1, 10-6.4, & 6-4.9.1.2.

Compressions checked in accordance with CMA M-0 Section 6-4.11.2; 1-74, 2-68, 3-72, 4-70, 5-70, 6-62 / 80 (Hot). Master orifice reading 46. Borescope inspection performed IAW Section 6-4.11.3. All cylinders found to be serviceable at this time.

Drained engine oil thru 1000 micron mesh screen. Took Blackstone oil sample to send for analysis. Removed oil filter. Cut and checked oil filter form metal contamination, filter normal. Removed oil sump magnetic drain plug and inspected, no abnormal particles were noted. Installed and secured new AA48108-2 oil filter and serviced engine with 8 quarts Phillips XC 20W50 oil. MX performed IAW Cirrus SR-22/22T AMM CH 12-10 and CMA CSB 07-01A.

Cleaned, gapped and rotated all spark plugs. Re-installed plugs with new gaskets p/n U674 and anti-seize as required. Torqued to specified limits.

Removed existing cylinder #6 CHT. Installed new #6 CHT probe Cirrus p/n 24584-001. Mx performed IAW Cirrus SR22/22T AMM Chapter 77-20.

Removed existing ALT-1 p/n 656802 s/n H-U021397. Transferred alternator drive hub onto new alternator shaft. Torqued drive coupling nut to Appendix B specifications and secured using a new cotter pin p/n MS24665-302. Installed new ALT-1 p/n ES-10024 s/n H-W032469 using existing hardware. Reference FAA form 8130-3 from Hartzell engine technologies under work order number M361010, dated March 24, 2022. Installed Alt-1 with a new gasket p/n 653981. Operational check normal. Mx performed IAW Continental maintenance & overhaul manual, publication M-0, chapters 10-4.1.1, 10-4.1.2, 10-4.1.3, & 10-4.1.5.

Removed existing ALT-2 p/n 657199-1 s/n H-S090941. Installed new ALT-2 p/n ES-7024-14-845 s/n H-W050299. Inspected belt, and set belt tension to required specification. Operational check normal. Mx performed IAW Cirrus SR22/22T AMM Chapter 24-30.

Removed existing exhaust assembly system. Installed a new complete exhaust assembly P/N 658682, using 2 new turbo gaskets P/N 636465, and 2 new wastegate gasket P/N 652456, and 6 new exhaust gasket P/N 652458. MX performed IAW Cirrus SR-22/22T AMM Ch. 78-10 & 78-20.

Removed existing LH rear baffle. Installed a new LH rear baffle assembly p/n 15473-009 with new induction tube gasket p/n 649950. Mx performed IAW Cirrus SR22/22T AMM Chapter 71-00.

Removed existing RH rear baffle. Installed a new RH rear baffle assembly p/n 15469-012. Mx performed IAW Cirrus SR22/22T AMM Chapter 71-00.

Removed engine drain mast assembly, modified and installed same drain mast assembly with new clamp p/n MS291313WDG13. MX performed IAW Cirrus SR22/22T AMM Chapter 71-70.

Removed broken LH TIT sensor and installed new LH TIT sensor p/n 29211-001. Operational check normal. MX performed IAW Cirrus SR22/22T AMM Chapter 77-20.

Removed damaged LH induction airbox. Installed new LH induction airbox p/n 26367-003. Mx performed IAW Cirrus SR22/22T AMM Chapter 71-60.

Re-positioned and re-secured A/C compressor drive grommets using safety wire. Mx performed IAW Cirrus SR22/22T AMM, chapter 21-50.

Removed damaged LH intercooler screw p/n MS27039-0810 and nutplate p/n MS21059L08. Installed new screw p/n MS27039-0810 and new nutplate p/n MS21059L08. MX Performed IAW Cirrus SR22/22T AMM CH 71-60-02.

Removed existing LH & RH induction filters. Installed new induction filter in LH & RH airbox p/n 27166-001 qty 2. Mx performed IAW Cirrus SR22/22T AMM Chapter 71-60.

Re-adhered LH turbo compressor inlet silicone ring with RTV. Mx performed IAW Cirrus SR22/22T AMM Chapter 20.

Removed gascolator assembly. Cleaned and inspected screen with no contamination noted. Re-assembled gascolator with new O-ring seals p/n MS29513-137 and stat-o-seal p/n NAS1523-8B. Leak check satisfactory.

Maintenance performed in accordance with Model SR-22/22T AMM, CMA TSIO-550 Series OHL manual M-18 and CMA Manual M-0.

Post inspection full power ground run and operational check performed with all indications normal and no defects or leaks noted.

I certify this engine has been inspected in accordance with an Annual / 100 hr. inspection and was determined to be in airworthy condition

SIGNATURE: Matthew Hatfield

FAA AUTHORIZATION:

2766522 A&P / IA



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 →

NS23MK

03/03/2023

ENGINE

MAKE: Continental

Model: TSIO-550-K

SN:1036683

Engine TT: 1033.0

Reviewed A/D 10-11-04. Reviewed MSB09-8A. This A/D is not applicable by engine S/N. A/D is terminated. Reviewed A/D 12-03-06. Inspected Fuel Servo- engine is not equipped with effected fuel servo diaphragm. A/D is terminated. Reviewed A/D 16-16-12. Reviewed Engine Maintenance records. This engine has no affected cylinder assemblies installed. A/D is terminated. Reviewed A/D 23-02-12. Inspected engine maintenance records. Engine is not equipped with any affected cylinder assemblies. A/D is terminated. Reviewed A/D 23-04-08. Reviewed MSB23-01A. This engine is not applicable per S/N. A/D is terminated.

*Cody White*  
Cody White AP3230006IA

NS23MK

Date: 03/25/2023

ENGINE

Make: Continental

Model: TSIO-550-K

SN:1036683

Hobbs: 1296.3

Engine TT: 1089.5

Drained engine oil. Removed Oil filter. Filter cut open and inspected for abnormal particles. None found. Obtained engine oil sample and sent for analysis for trend monitoring. Replaced engine oil filter with P/N AA48108-2. Safety wired in place. Serviced engine with 8-quarts of Phillips XC 20W-50. Ground run. Ops normal. Returned to service. Maintenance accomplished IAW Cirrus SR22/22-T AMM Chapter 12-10 and CMA CSB 07-01A.

*Cody White*  
Cody White AP3230006IA

ENGINE

Make: Continental

Model TSIO-550-K

Date 7-14-2023

SN:1036683

Hobbs: 1350.8

Engine TT: 1350.8

Drained engine oil. Removed Oil filter. Filter cut open and inspected for abnormal particles. None found. Obtained engine oil sample and sent for analysis for trend monitoring. Replaced engine oil filter with P/N AA48108-2. Safety wired in place. Serviced engine with 8-quarts of Phillips XC 20W-50. Engine inspected and serviced IAW 100-hr inspection list CMM 5-20. Cylinder Compressions: 1) 73/80 2) 73/80 3) 72/80 4) 70/80 5) 73/80 6) 74/80. Borescope examination all cylinders no abnormalities noted. Inspected exhausts clamps IAW A/D 2023-09-09. This A/D is not applicable due to no spot-welded clamps installed. A/D is terminated unless spot welded clamps installed later. All other A/D reviewed and complied with through this date. Ground run. Ops normal. Returned to service. Maintenance accomplished IAW Cirrus SR22/22-T AMM Chapter 12-10 and CMA CSB 07-01A. I certify this ENGINE has been inspected IAW an 100 hour inspection and was determined to be airworthy this date.

*Cody White*  
Cody White AP3230006IA




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



8606 HWY 260, Manning SC 29102 W/O # 3868 DATE: 12-14-2023

A/C: N523MK MAKE: CIRRUS MODEL: SR22T S/N 1848

TACH/HOBBS:                      HOBBS: 1547.5 TSO: 1457.5

**ENGINE: CONTINENTAL TSIO-550-K / S/N: 1036683**

C/W ANNUAL/100 HR INSPECTION I/A/W CIRRUS SERVICE/MAINTENANCE MANUAL CHAPTER 5-20. A.D.'S CHECKED THRU BIWEEKLY SUPPLEMENT 2023-22. REPLACE EGT #4 WITH P/N: **24585-001**. REPLACE SPARK PLUGS WITH 12 NEW TEMPEST P/N: **URHB32E**. DRAIN OIL, NO CONTAMINATES NOTED AND REPLACE OIL FILTER WITH P/N: **CH48108-1**. FILL WITH 8 QTS OF **PHILLIPS 20W50**. COMPRESSION CHECK.

#1 70/80      #2 73/80      #3 74/80      #4 76/80      #5 71/80      #6 71/80

I CERTIFY THE AIRCRAFT, AIRCRAFT ENGINE, PROPELLER, OR APPLIANCE IDENTIFIED ABOVE WAS REPAIRED AND OR INSPECTED ACCORDANCE WITH CURRENT FAA REGULATIONS AND WAS FOUND AIRWORTHY WITH RESPECT TO THE WORK PERFORMED, 100 HR. AND IS APPROVED FOR RETURN TO SERVICE.

SIGNATURE: FREDDIE HILTON, JR. *Freddie Hilton Jr.* FAA REPAIR STATION #PB4R434M

Avias LLC, 2601 Cirrus Way NW, Kennesaw GA 30144

Date: 02-09-2024 Logbook: Engine 1 Tail Number: N523MK Hobbs: 1476.8

Tach: 1229.9 Time Since New: 1229.9 Model: TSIO-550-K

- COMPLIED WITH PRELIMINARY INSPECTION IN ACCORDANCE WITH 14 CFR 145.211 (C)(II). ALL FINDINGS WERE RECORDED ON THIS WORK ORDER.
- INSTALLED NEW L/H TIT PROBE IAW CIRRUS SR22T AMM 77-22. OPS CHECK GOOD.
- ADJUSTED MAX FUEL FLOW TO 40.4 GPH IAW TCM M-18.
- ADJUSTED MX RPM TO 2500 RPM IAW CIRRUS SR22T MM 61-20.
- ADJUSTED MANIFOLD PRESSURE TO 36.3 IN/MG IAW TCM M-18.
- PERFORMED FINAL CHECKS AND INSPECTIONS IAW CIRRUS SR22T AMM 5-20.
- PERFORMED AN AIRPLANE RUN-UP IN ACCORDANCE WITH OPERATIONAL/FUNCTIONAL CHECK IN CIRRUS SR22T AMM 5-30.

THIS AIRCRAFT, AIRFRAME, AIRCRAFT ENGINE, OR APPLIANCE IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH CURRENT REGULATION OF THE FEDERAL AVIATION ADMINISTRATION AND IS APPROVED TO RETURN TO SERVICE. PERTINENT DETAILS OF THE REPAIR ARE ON FILE AT THIS REPAIR STATION UNDER WO# 24022, DATED 02-09-2024.

Certificate: **DK7R442E** | Authorized RTS Technician: Kevin Southworth

Sign: *Kevin Southworth* | Date: 02-09-2024