



# **CONTINENTAL**

A E R O S P A C E   T E C H N O L O G I E S

## **ENGINE LOG BOOK**

## Service Information

Consult the Continental web site at <http://www.continental.aero> for engine related news or announcements. The web site contains useful information for Continental engine owners, including service information and illustrated parts catalogs.

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 for International customers

## Warranty Information

This product is covered by Continental Aerospace Technologies™ product warranty. To read or download a copy for your records, please visit the Product Warranty page on our web site at: <http://www.continental.aero/services/warranty.aspx> or scan the QR Code to the right to navigate to the page:



## Instructions for Continued Airworthiness

For complete access to the engine Instructions for Continued Airworthiness, Illustrated Parts Catalogs, Service Documents, Technical Briefs, company news, and upcoming events, please take a few moments to register the serial number of your engine on our web site: <http://www.continental.aero/services/owner-registration.aspx> or scan the QR Code to the right to navigate to the page:



## Engine Returns

Return engines for core credit with this log book to:  
**Continental Aerospace Technologies**  
2039 Broad Street  
Mobile, AL 36615 USA

Return engines for overhaul with this log book to:  
**Continental Services**  
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**

FAA PRODUCTION CERTIFICATE NO. 508

Printed: 03/24/2023

Test Date: 03/24/2023

This engine model TSI0550K2B, serial number 1045203 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.

**CONTINENTAL MOTORS, INC.**



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  
ENGINE S/N: 1045203  
REG. NO: N312DY  
WORK ORDER: KTY29728-06-2023



### CIRRUS Cirrus Factory Service Center

Repair Station No. 9B0R988C  
114 Cirrus Landing  
Alcoa, TN 37701  
Phone: 865-980-8702

DATE: 6/8/2023  
A/C TSN: 20.9  
ENG TT: 20.9  
TSMOH:  
TACH: 20.9

#### Engine Entries

- (6) Performed 25 Hr. CMX Servicing of engine IAW Cirrus SR22T AMM 5-20 and Continental M-(0) Manual.  
(7) Drained engine oil. Serviced engine with 8 quarts of X/C 20W50 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 SR22T AMM 12-10 and Continental Manual M-18

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 9B0R988C.

DATE: 6/8/2023

SIGNED: *Mark Comeaux*

Work Order: KTY29728-06-2023

Mark Comeaux  
Certified Repair Station No. 9B0R988C

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CRS NT2R043L  
(620)663-1546  
www.wellsac.com

Date: 06-27-2023  
Work Order: S9902  
N312DY S/N 22T-9225  
Flight Time: 46.3  
Hobbs Meter: 58.5  
TTE: 46.3

**ENGINE LOG**  
Eng. S/N: 1045203



Performed a Cirrus recurring 50 flight hour CMX Inspection/Service interval with reference to the CMX 50 Hour Inspection checklist and applicable sections of Cirrus CDC SR22/22T AMM P/N 13773-002 Rev. 4, CMI IO-550 series Maintenance and Overhaul Manual M-18, Rev. 1 (March 2020) & CMI M-0, Rev. 1 Change 2 (Aug. 2021). Drained engine oil hot & collected sample P/N GA-001 for lab analysis. Removed oil filter, cut open & inspected filter element; no discrepancies noted. Installed new oil filter P/N AA48108-2 and serviced engine with 7qts of Phillips 20W50 X/C. Performed engine setup, adjusted prop speed, fuel flow and manifold pressure as needed.

All work was performed with reference to applicable sections of CDC SR22/22T AMM P/N 13773-002 Rev. 4 and CMI IO-550 series Maintenance and Overhaul Manual M-18, Rev. 1 (March 2020).

I have reviewed the file on this aircraft and the accompanying forms. The aircraft, airframe, aircraft engine, propeller, or appliance identified was repair/inspected in accordance with current requirements of the Federal Aviation Administration and is approved for return to service. Pertinent details of repair/inspection are on file at this Certified Repair Station CRS NT2R043L.

Authorized Signature: *Chad J. Koehn*  
Chad J. Koehn / CRS Release Authority



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Date: 01-10-2024  
Work Order: S9991  
N312DY S/N 22T-9225  
Flight Time: 106.5  
Hobbs Meter: 129.9  
TTE: 106.5

**ENGINE LOG**  
Eng. S/N: 1045203



Performed a Cirrus recurring 100 flight hour CMX Inspection/Service interval with reference to the CMX 100 Hour Inspection checklist and applicable sections of Cirrus CDC SR22/22T AMM P/N 13773-002 Rev. 4, CMI IO-550 series Maintenance and Overhaul Manual M-18, Rev. 1 (March 2020) & CMI M-0, Rev. 1 Change 2 (Aug. 2021). Drained engine oil hot & collected sample P/N GA-001 for lab analysis. Removed oil filter, cut open & inspected filter element; no discrepancies noted. Installed new oil filter P/N AA48108-2 and serviced engine with 7qts of Phillips 20W50 X/C. Performed engine differential compression test; results as follows: #1 75/80, #2 71/80, #3 70/80, #4 72/80, #5 70/80, #6 70/80, MO 46/80.

All work was performed with reference to applicable sections of CDC SR22/22T AMM P/N 13773-002 Rev. 4 and CMI IO-550 series Maintenance and Overhaul Manual M-18, Rev. 1 (March 2020).

I have reviewed the file on this aircraft and the accompanying forms. The aircraft, airframe, aircraft engine, propeller, or appliance identified was repair/inspected in accordance with current requirements of the Federal Aviation Administration and is approved for return to service. Pertinent details of repair/inspection are on file at this Certified Repair Station CRS NT2R043L.

Authorized Signature: *Chad J. Koehn*  
Chad J. Koehn / CRS Release Authority



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					

Carrie

ENGINE MODEL: TSIO-550-K  
ENGINE S/N: 1045203  
REG NO: N312DY  
WORK ORDER: KTYS31645-04-2024



**Cirrus Factory Service Center**

Repair Station No. 9B0R988C  
114 Cirrus Landing  
Alcoa, TN 37701  
Phone: 865-980-8713

DATE: 4/19/2024  
A/C TSN: 149 5  
ENG TT: 149 5  
TSMOH:  
TACH: 149 5

### Engine Entries

- (6) Performed engine operational and function check IAW Cirrus SR22T AMM 5-30.
- (7) Drained engine oil. Serviced engine with 8 quarts of Phillips X/C 20W50 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 SR22T AMM 12-10 and Continental MM M-0.
- (8) Performed 50 Hr. CMX Servicing of engine IAW Cirrus SR22T AMM 5-20 and Continental MM M-0 Section 6.4.
- (11) Performed engine fuel system setup in accordance with SR-22T AMM 73-20. Post maintenance run up and leak check satisfactory.
- Max RPM - 2470
- FF - 41
- Oil Temp - 177
- Oil Pressure - 54
- (12) Complied with AD 2023-09-09 V-Band Clamp Inspection. No Action Required. Clamps are Riveted.
- (19) Complied with 50 hour inspection per Continental MM M-0 Section 6.4.

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 9B0R988C.

DATE: 4/19/2024

SIGNED:

Scott Woody  
Certified Repair Station No. 9B0R988C

Work Order: KTYS31645-04-2024

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Date: 05-24-2024  
Work Order: S10110  
N312DY S/N 22T-9225  
Flight Time: 168.3  
Hobbs Meter: 204.6  
TTE: 168.3

**ENGINE LOG**  
Eng. S/N: 1045203



Performed a **CMX 100 hour/Annual inspection** in accordance with FAR91.409 and the requirements outlined in FAR 43 App. D; with reference to the 100 hour/annual inspection checklist and applicable sections of Cirrus CDC SR22/22T AMM P/N 13773-002 Rev. 4 11/2021, CMI IO-550 series Maintenance and Overhaul Manual M-16, Rev 2, Change 1 (May 2022) & CMI M-0, Rev. 1, Change 2 (Aug 2021). Performed engine cylinder differential compression test, results as follows: #1 72/80, #3 72/80, #5 70/80, #2 70/80, #4 70/80, #6 71/80, M.O. 46/80. Drained engine oil hot & collected sample P/N GA-001 for lab analysis. Removed oil filter, cut open & inspected filter element; no discrepancies noted. Installed new oil filter P/N AA48108-2 and serviced engine with 7qts of Phillips 20W50 X/C. Customer states Cylinders #2 and #3 seem to run the hottest. Removed and cleaned injectors. Functional check satisfactory. Installed new LH air box weldment P/N 26367-003. Fuel flow is too high at 42.2GPH. Adjusted fuel flow to within acceptable tolerance. Torqued engine mount weldment bolts and lower attach fittings as required for first annual or 500 hour inspection, next due 668.3 flight hours.

- All applicable AD's have been complied with at this time thru AD 2023-17-04, an updated copy of AD listing is attached to aircraft records.

All work was performed with reference to applicable sections of Cirrus CDC SR22/22T AMM P/N 13773-002 Rev. 4 11/2021, CMI IO-550 series Maintenance and Overhaul Manual M-16, Rev 2, Change 1 (May 2022) & CMI M-0, Rev. 1, Change 2 (Aug 2021). Post-run and leak check was satisfactory at this time.

I certify that this Engine (TSIO-550-k (2B), S/N 1045203) has been inspected in accordance with a **CMX 100 Hour/Annual Inspection** and was determined to be in an Airworthy Condition.

I have reviewed the file on this aircraft and the accompanying 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 the repair / inspection are on file at this Certified Repair Station CRS NT2R043L.

Authorized Signature:

Louis J. Eilerts / CRS Release Authority



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

Carrier



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Date: **10-11-2024**  
Work Order: **S10227**  
N312DY S/N 22T-9225  
Flight Time: **213.7**  
Hobbs Meter: **257.8**  
TTE: **213.7**

**ENGINE LOG**  
Eng. S/N: 1045203



Performed a Cirrus recurring 50 hour CMX Inspection/Service interval with reference to the CMX 50 Hour Inspection checklist and applicable sections of Cirrus CDC SR22/22T AMM P/N 13773-002 Rev. 5 (06/2024) & CMI IO-550 series Maintenance and Overhaul Manual M-18, Rev. 1 (March 2020) & CMI M-0, Rev. 1 Change 2 (Aug. 2021). Drained engine oil hot & collected sample P/N GA-001 for lab analysis. Removed oil filter, cut open & inspected filter element; no discrepancies noted. Installed new oil filter P/N AA48108-2 and serviced engine with 7qts of Phillips 20W50 X/C. Customer reports CO detector going off randomly on climb out, pressure tested exhaust, found normal leakage at slip joints, inspected seal on air conditioner condenser, no defects noted, inspected seals on firewall, no defects noted.

All work was performed with reference to applicable sections of CDC SR22/22T AMM P/N 13773-002 Rev. 5 (06/2024) & CMI IO-550 series Maintenance and Overhaul Manual M-18, Rev. 1 (March 2020) & CMI M-0, Rev. 1 Change 2 (Aug. 2021).

I have reviewed the file on this aircraft and the accompanying forms. The aircraft, airframe, aircraft engine, propeller, or appliance identified was repaired/inspected in accordance with current requirements of the Federal Aviation Administration and is approved for return to service. Pertinent details of repair/inspection are on file at this Certified Repair Station CRS NT2R043L.

Authorized Signature: *Chad J. Koehn*

Chad J. Koehn / CRS Release Authority



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Date: **10-11-2024**  
Work Order: **S10227**  
N312DY S/N 22T-9225  
Flight Time: **213.7**  
Hobbs Meter: **257.8**  
TTE: **213.7**

**ENGINE LOG**  
Eng. S/N: 1045203



Performed a Cirrus recurring 50 hour CMX Inspection/Service interval with reference to the CMX 50 Hour Inspection checklist and applicable sections of Cirrus CDC SR22/22T AMM P/N 13773-002 Rev. 5 (06/2024) & CMI IO-550 series Maintenance and Overhaul Manual M-18, Rev. 1 (March 2020) & CMI M-0, Rev. 1 Change 2 (Aug. 2021). Drained engine oil hot & collected sample P/N GA-001 for lab analysis. Removed oil filter, cut open & inspected filter element; no discrepancies noted. Installed new oil filter P/N AA48108-2 and serviced engine with 7qts of Phillips 20W50 X/C. Customer reports CO detector going off randomly on climb out, pressure tested exhaust, found normal leakage at slip joints, inspected seal on air conditioner condenser, no defects noted, inspected seals on firewall, no defects noted.

All work was performed with reference to applicable sections of CDC SR22/22T AMM P/N 13773-002 Rev. 5 (06/2024) & CMI IO-550 series Maintenance and Overhaul Manual M-18, Rev. 1 (March 2020) & CMI M-0, Rev. 1 Change 2 (Aug. 2021).

I have reviewed the file on this aircraft and the accompanying forms. The aircraft, airframe, aircraft engine, propeller, or appliance identified was repaired/inspected in accordance with current requirements of the Federal Aviation Administration and is approved for return to service. Pertinent details of repair/inspection are on file at this Certified Repair Station CRS NT2R043L.

Authorized Signature: *Chad J. Koehn*

Chad J. Koehn / CRS Release Authority



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Date: **06-05-2025**  
Work Order: **S10259**  
N312DY S/N 22T-9225  
Flight Time: **251.6**  
Hobbs Meter: **302.1**  
TTE: **251.6**

**ENGINE LOG**  
Eng. S/N: 1045203



Performed a **CMX 100 Hour/Annual Inspection** in accordance with FAR 91.409 and the requirements outlined in FAR 43 App. D; with reference to Cirrus SR22/22T AMM P/N 13773-002 Rev. 7 (04/2025) Chapter 5, CMI TSIO-550 series Engine Maintenance and Overhaul Manual M-18, Rev. 1 Change 1 (11/2023) & M-0, Rev. 1 Change 6 (08/2024). Performed engine cylinder differential compression test, results as follows: #1 73/80, #2 65/80, #3 65/80, #4 67/80, #5 66/80, #6 66/80, - MO 45/80. Drained engine oil hot & collected sample P/N GA001 for outside lab analysis. Removed oil filter, cut open & inspected filter element; no discrepancies noted. Installed new oil filter P/N AA48108-2 and serviced engine with 7qts of Phillips 20W50 X/C oil. Installed new gasket P/N 652101 (1) on LH turbo oil return reservoir. Installed a new bottom spark plug P/N URHB32E (1) on cylinder #4. C/W Cirrus CMX 24-month special inspection/service interval items: Removed alternator #1, installed new brush assembly P/N ALE3045BS (1). Re-installed alternator #1 using a new gasket P/N 653981 (1), next due (06/2027). Removed alternator #2, installed new brush assembly P/N 40278 (1), reinstalled alternator #2, next due (06/2027). - C/W Cirrus SA24-11, Reference Continental SIL24-02 by installing new pressurized magneto filter assembly P/N 671855 (1). - All applicable AD's have been complied with at this time thru AD 2023-09-09, see AD & SB listing placed with logbooks.

All work was performed with reference to applicable sections of Cirrus SR22/22T AMM P/N 13773-002 Rev. 7 (04/2025), CMI TSIO-550-B, C, E, G, K and N Permod Series Maintenance & Overhaul Manual M-18, Rev. 1 Change 1 (11/2023) & M-0, Rev. 1 Change 6 (08/2024). I certify that this Engine (TSIO-550-k (2B), S/N 1045203) has been inspected in accordance with a **CMX 100 Hour/Annual Inspection** and was determined to be in an Airworthy Condition.

I have reviewed the file on this aircraft and the accompanying 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 the repair / inspection are on file at this Certified Repair Station CRS NT2R043L.

Authorized Signature: *Louis J. Eilerts*

Louis J. Eilerts / CRS Release Authority