



The National Transportation Safety Board

Office of Aviation Safety
Central Region
Memorandum for the Record
Engine Logbook Summary
with Supporting Excerpts
CEN22LA144
Minot, North Dakota
March 11, 2022

Summary of Engine Logbooks Entries 2018-2022

2/26/2018 @ 516.4 Hours: Lapped #5 and #6 exhaust valves. Removed and repaired and Replaced #4 Cylinder.

3/14/2019 @ 698.2 Hours: Engine 100-Hour Inspection. Ground Runup and Ops Check Good.

4/08/2020 @ 793.3 Hours: Engine 100-Hour Inspection. Compression Check. Engine Runup. Ops Check Good.

4/29/2020 @ 794.5 Hours: Cylinders #2 & #3 removed due to leaking exhaust valves. Cylinders Repaired. Reinstalled #2 and #3 Cylinders. Engine Ops Check Good.

5/26/2020 @ 819.2 Hours: Inspected Induction Lines and Wastegate Controller Lines. No Defects Noted. Performed Ground Runup. Ops Check Good.

7/27/2020 @ 851.4 Hours: Oil Change. Oil Change. Drained / Inspected and Replaced Filter. No defects noted.

10/02/2020 @ 902.3 Hours: Moved #3 CHT Probe to #5 Cylinder and #5 Probe to #3 Cylinder Ops Check Good.

3/22/2021 @ 959.2 Hours: Oil Change. Drained and Inspected Filter. No defects noted.

6/15/2021 @ 983.7 Hours: Engine 100-Hour Inspection. Compression Check. Fuel Injectors Cleaning. Oil Change.

9/08/2021 @ 1015.3 Hours: #1 cylinder replaced with new TCM cylinder.

10/25/2021 @ 1037.4 Hours: Oil Change. Drained / Inspected and Replaced Filter. No defects noted.

2/14/2022 @ 1086.7 Hours: Oil Change. Drained / Inspected and Replaced Filter. No defects noted.

Alexander Lemishko

Senior Air Safety Investigator
NTSB Central Region Aviation

N NUMBER: **N164CP**

ENGINE LOGBOOK INSERT

Date: **15 June 2021**
 MAKE: **CONTINENTAL** MODEL: **TSIO-550-K** S/N: **1010814** FLIGHT HOBBS/ACTT: **983.7** ENG. TT: **983.7**

Special Inspections and Time Life items Complied With at this time:
 1) C/W **Engine Annual/100hr Inspection** IAW SR22T MM 100hr Checklist & Scope and Detail of 14 CFR 43 Appendix D.
 2) C/W **50Hr Oil Change**. Removed oil filter and cut open. No defects found. Installed new filter, PN: CH48108-1, and serviced with 8 qts. Phillips 20W50XC IAW Cirrus SR22T MM 12-10. Leak check good.
 3) C/W **Compression Check**: 1-74/80, 2-76/80, 3-76/80, 4-74/80, 5-74/80, 6-70/80.
 4) C/W **12 Month/300Hr Fuel Injectors Cleaning** IAW Continental Standard Practice Maintenance Manual 6-4.17 & 10-2.4/5.
 5) C/W **500Hr Magneto Internal Inspection**. Installed new points in LH magneto, PN: ES10-382584, & internally timed LH & RH magneto Engine run up and leak check normal.
 IAW TCM Ignition Systems, S-20/S-200 Service Manual. Installed magnetos IAW Cirrus SR22T MM 74-10. Run up & leak check good.

Airworthiness Directives Complied With at this time:
 1) Checked ADS through BW 2021-12.
 2) C/W AD 84-26-02 Amendment 39-4966 Effective 01/29/85 Installed new Induction air filters, L/H & R/H, PN: 27166-001, IAW Cirrus SR22T MM.

Maintenance items addressed at this time:
 1) Installed new spark plugs, PN: RHB32E, in all 6 cylinders IAW Continental Standard Practice Maintenance Manual M-0 Ch 6-4. Run up good.

- END -

MAINTENANCE RELEASE: I certify that the aircraft, airframe, aircraft engine, propeller or appliance identified above was repaired and inspected in accordance with current rules of the Federal Aviation Regulations and was found airworthy and is approved for return to service for the work performed. Pertinent details of the repair are on file at the agency under Work Order No. [REDACTED] Signature of authorized Person [REDACTED] For FAA CERTIFIED REPAIR STATION [REDACTED]

N NUMBER: **N164CP**

ENGINE LOGBOOK INSERT

Date: **08 September 2021**
 MAKE: **CONTINENTAL** MODEL: **TSIO-550-K** S/N: **1010814** FLIGHT HOBBS/ACTT: **1015.3** ENG. TT: **1015.3**

Maintenance items addressed at this time:
 1) Replaced the #1 cylinder with a new cylinder P/N 658815A3BP S/N AC19KA624 IAW Continental motors TSIO-550 Overhaul manual M-18 and Continental Motors standard practice manual M-0. Ops and leak check good.
 2) C/W **Oil Change**. Removed oil filter and cut open. No defects found. Installed new filter, PN: CH48108-1, and serviced with 8 qts. Phillips 20W50M Mineral Oil IAW Cirrus SR22T MM 12-10. Leak check good.

- END -

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N NUMBER: **N164CP**

ENGINE LOGBOOK INSERT

Date: **25 October 2021**
 MAKE: **CONTINENTAL** MODEL: **TSIO-550-K** S/N: **1010814** FLIGHT HOBBS/ACTT: **1037.4** ENG. TT: **1037.4**

Maintenance items addressed at this time:
 1) C/W **Oil Change**. Drained oil and removed filter, filter cut open and inspected, no defects noted. Installed new filter, PN: CH48108-1, and serviced with 8 qts. Phillips 20W50XC Oil IAW Cirrus SR22 MM 12-10. Leak checks good.
 2) Installed New RH TIT probe, PN: 29211-001, IAW Cirrus SR22 MM 77-20. Ops check good.

- END -

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N NUMBER: **N164CP**

ENGINE LOGBOOK INSERT

Date: **14 February 2022**
 MAKE: **CONTINENTAL** MODEL: **TSIO-550-K** S/N: **1010814** FLIGHT HOBBS/ACTT: **1086.7** ENG. TT: **1086.7**

Maintenance items addressed at this time:
 1) C/W **Oil Change**. Drained oil and removed filter, filter cut open and inspected, no defects noted. Installed new filter, PN: CH48108-1, and serviced with 7 qts. Phillips 20W50XC Oil IAW Cirrus SR22 MM 12-10. Leak checks good.
 2) Removed and installed new oil temp sensor using new crush gasket IAW Cirrus SR22T MM 79-30. Ops Check Good.
 3) Removed turbo oil check valve and cleaned and inspected IAW Continental TSIO-550-K EMM 17-12. no defects noted.
 4) Installed new Engine Induction air ALT air duct Assy, PN: 28895-003, IAW Cirrus SR22T MM 71-60. Ops checks good.
 5) Lubricated turbo waste gate linkages IAW cirrus SR22T MM 12-20.

- END -

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Date: 29 April 2020

ENGINE LOGBOOK INSERT

N NUMBER: N164CP

MAKE: CONTINENTAL MODEL: TSIO-550-K S/N: 1010814 FLIGHT HOBBS/ACTT: 794.5 ENG. TT: 794.5

Maintenance items addressed at this time:

- 1) Removed #2 cylinder, SN: PGA101045-1, and #3 cylinder, SN: PGA101045-2, due to leaking exhaust valves. Cylinders repaired by Poplar Grove Airmotive, INC W/O: 101045, Dated 04/22/20. Reinstalled #2 cylinder, SN: PGA101045-1 and #3 cylinder, SN: PGA101045-2 IAW Continental TSIO-550 Permold Series Engine Maintenance and Overhaul manual M-18 and Continental Motors Standard Practices Manual M-0. Serviced Engine with 8 Qts Phillips 20W50 Mineral Oil and installed new CH48108-1 Oil filter. Engine ops check and leak checks good.

~ END ~

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Signature of authorized Person [REDACTED]

Date: 26 May 2020

ENGINE LOGBOOK INSERT

N NUMBER: N164CP

MAKE: CONTINENTAL MODEL: TSIO-550-K S/N: 1010814 FLIGHT HOBBS/ACTT: 819.2 ENG. TT: 819.2

Maintenance items addressed at this time:

- 1) Inspected induction lines and wastegate controller lines, no defects noted. Inspected and Lubricated turbochargers, wastegate actuators and butterfly valve IAW Continental Motors Standard Practices Manual (M-0) 6-4.21. Performed ground run up, ops checks good.

~ END ~

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Signature of authorized Person [REDACTED]

Date: 27 July 2020

ENGINE LOGBOOK INSERT

N NUMBER: N164CP

MAKE: CONTINENTAL MODEL: TSIO-550-K S/N: 1010814 FLIGHT HOBBS/ACTT: 851.4 ENG TT: 851.4

Maintenance items addressed at this time:

- 1) C/W Oil Change. Drained oil and removed filter, filter cut open and inspected, no defects noted. Installed new filter, CH48108-1, and serviced with 8 quarts Phillips 20W50M Mineral Oil IAW Cirrus SR22 MM 12-00, performed leak check, no leaks noted.

~ END ~

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Signature of authorized Person [REDACTED]

Date: 02 October 2020

ENGINE LOGBOOK INSERT

N NUMBER: N164CP

MAKE: CONTINENTAL MODEL: TSIO-550-K S/N: 1010814 FLIGHT HOBBS/ACTT: 902.3 ENG TT: 902.3

Maintenance items addressed at this time:

- 1) C/W Oil Change. Drained oil and removed filter, filter cut open and inspected, no defects noted. Installed new filter, CH48108-1, and serviced with 8 quarts Phillips 20W50XC Oil IAW Cirrus SR22 MM 12-00, performed leak check, no leaks noted.
- 2) Moved #3 CHT to probe to #5 cylinder and #5 CHT probe to #3 cylinder IAW Cirrus SR22T MM 77-20. Ops checks good.

~ END ~

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Signature of authorized Person [REDACTED]

Date: 22 March 2021

ENGINE LOGBOOK INSERT

N NUMBER: N164CP

MAKE: CONTINENTAL MODEL: TSIO-550-K S/N: 1010814 FLIGHT HOBBS/ACTT: 959.2 ENG TT: 959.2

Maintenance items addressed at this time:

- 1) C/W Oil Change. Drained oil and removed filter, filter cut open and inspected, no defects noted. Installed new filter, CH48108-1, and serviced with 8 quarts Phillips 20W50XC Oil IAW Cirrus SR22 MM 12-00, performed leak check, no leaks noted.

Maintenance items addressed at this time:

- 1) Removed, cleaned, inspected, and reinstalled turbocharger oil supply check valves IAW Continental Motors Standard Practice Maintenance Manual M-0 6-4.21.1. Ops and leak check good.

~ END ~

MAINTENANCE RELEASE: I certify that the aircraft, airframe, aircraft engine, propeller or appliance identified above was repaired and inspected in accordance with current rules of the Federal Aviation Regulations and was found airworthy and is approved for return to service for the work performed. Pertinent details of the repair are on file at the agency under Work Order [REDACTED]

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					

[REDACTED] N NUMBER: **N164CP**
AIRCRAFT LOGBOOK INSERT

Date: **25 July 2019**
 MAKE: **CIRRUS** MODEL: **SR22T** S/N: **891** FLIGHT HOBBS: **696.2** HOBBS: **793.7**

Maintenance items addressed at this time:

- 1) Drained and serviced oil with 8 qts Phillips XC 20W50, removed oil filter and inspected for contamination. Installed new CH48108-1 filter, performed leak check, no leaks noted. Work completed IAW Cirrus SR22 M/M Ch 12.
- 2) C/W Cirrus SA 13-01, inspected LH exhaust pipe, no defects noted at this time.

Service Bulletins Complied With at this time:

C/W SB2X-32-22R2-NOSE LANDING GEAR STRUT ASSEMBLY INSPECTION. No defects noted.

MAINTENANCE RELEASE: I certify that the aircraft, airframe, aircraft engine, propeller or appliance identified above was repaired and inspected in accordance with current rules of the Federal Aviation Regulations and was found airworthy and is approved for return to service for the work performed. Pertinent details of the repair are on file at this agency under Work Order No. [REDACTED]

Date: [REDACTED] Signature of authorized Person: [REDACTED]

[REDACTED] N NUMBER: **N164CP**
ENGINE LOGBOOK INSERT
 Date: **15 NOVEMBER 2019**
 MAKE: **CONTINENTAL** MODEL: **TSIO-550-K** S/N: **1010814** HOBBS: **0853.1** FLIGHT HOBBS: **744.7** ACTT: **744.7**

Maintenance items addressed at this time:

- 1) Drained oil, took sample and serviced with 8 qts Phillips XC 20W50, removed oil filter and inspected for contamination, no findings. Installed new CH48108-1 filter, performed leak check, no leaks noted. Work completed IAW Cirrus SR22 M/M Ch 12-00.

~ END ~

MAINTENANCE RELEASE: I certify that the aircraft, airframe, aircraft engine, propeller or appliance identified above was repaired and inspected in accordance with current rules of the Federal Aviation Regulations and was found airworthy and is approved for return to service for the work performed. Pertinent details of the repair are on file at this agency under Work Order No. [REDACTED]

Date: [REDACTED] Signature of authorized Person: [REDACTED]

[REDACTED] N NUMBER: **N164CP**
ENGINE LOGBOOK INSERT
 Date: **26 FEBRUARY 2020**
 MAKE: **CONTINENTAL** MODEL: **TSIO-550-K** S/N: **1010814** FLIGHT HOBBS: **789.2** ACTT: **789.2**

Maintenance items addressed at this time:

- 1) C/W Oil Change. Drained oil, serviced with 8 qts Phillips XC20W50, removed oil filter and inspected for contamination, no findings. Installed new CH48108-1 filter IAW Cirrus SR22 M/M 12-00, performed leak check, no leaks noted.

~ END ~

MAINTENANCE RELEASE: I certify that the aircraft, airframe, aircraft engine, propeller or appliance identified above was repaired and inspected in accordance with current rules of the Federal Aviation Regulations and was found airworthy and is approved for return to service for the work performed. Pertinent details of the repair are on file at this agency under Work Order No. [REDACTED]

Date: [REDACTED] Signature of authorized Person: [REDACTED]

[REDACTED] N NUMBER: **N164CP**
ENGINE LOGBOOK INSERT
 Date: **8 April 2020**
 MAKE: **CONTINENTAL** MODEL: **TSIO-550-K** S/N: **1010814** FLIGHT HOBBS/ACTT: **793.3** ENG. TT: **793.3**

Special Inspections and Time Life items Complied With at this time:

- 1) C/W Engine Annual/100hr Inspection IAW SR22T M/M 100hr Checklist And FAR 43 App D.
- 2) C/W compression check: 1-52/80, 2-35/80, 3- 40/80, 4-74/80, 5-78/80, 6-52/80.
- 3) C/W 12 Month/300Hr Fuel Injectors Cleaning IAW Continental Standard Practice Maintenance Manual 6-4.17 & 10-2.4/5. Engine run up and leak check normal.

Airworthiness Directives Complied With at this time:

- 1) Checked ADs through BW 2020-07.

~ END ~

MAINTENANCE RELEASE: I certify that the aircraft, airframe, aircraft engine, propeller or appliance identified above was repaired and inspected in accordance with current rules of the Federal Aviation Regulations and was found airworthy and is approved for return to service for the work performed. Pertinent details of the repair are on file at this agency under Work Order No. [REDACTED]

Date: [REDACTED] Signature of authorized Person: [REDACTED]

[REDACTED]
N164CP Continental TSIO-550-K(1B) S/N: 1010814 Total Time: 0613.5
14 March 2019 Flight Hobbs: 0613.5 Hobbs Meter: 0698.2
100 Hour Inspection for Annual completed this date using the Cirrus SR22T Scheduled Maintenance Report as a guide. Compression test: #1) 60/80, #2) 66/80, #3) 60/80, #4) 74/80, #5) 68/80, #6) 76/80. Lapped #3 exhaust valves as needed. Reassembled cylinder using new lock tab and gasket. Changed engine oil and filter using (Phillips X/C 20W50M). Cut oil filter open and inspected, no contaminants noted. Blackstone oil sample taken and submitted. Cleaned, gapped, tested, and rotated spark plugs. Removed left and right magnetos. Installed new points P/N: 10-382584 and capacitors P/N: 10-400615. Reassembled, reinstalled and timed left and right magnetos to engine using new gaskets and installation hardware as required. Tightened exhaust heat shields. Applied Loctite 271 on threads and tightened nut for Tanis pre heat receptacle. Installed new adel clamps to engine mount and crankcase breather tube. Safetied left tail pipe clamp. Re-attached RAM baffle screw to left forward baffle seal. Leak checked fuel system. Inspected and lubricated throttle and mixture controls, operational check good. Cleaned turbocharger oil inlet check valve per CMI SIL-17-02. Performed 12 month #1 Alternator Brush Inspection and replaced brushes, P/N: ALE1013AS. Next #1 alternator brush inspection due March 2020. Complied with Cirrus SA 13-01 (Exhaust Crack Inspection) by visually inspecting the left turbocharger transition for cracks as outlined in Service Advisory. No defects noted. Next inspection due at scheduled oil change. Complied with Continental SIL 17-02 (Check Valve Cleaning) by inspection and cleaning check valve, no defects noted. Installed CamGuard just prior to post-inspection ground run. AD's checked through Biweekly 2019-05. Post inspection ground run-up, leak check and operational check satisfactory. I CERTIFY THAT THIS ENGINE IS IN SERVICE WITH A 100 HOUR INSPECTION AND IN GOOD CONDITION.
[REDACTED] w/o 39912

[REDACTED]
N164CP Date: 05/06/2019
Model: Continental TSIO-0550-K1B S/N: 1010814
AFTT: 637.5 HOBBS: 724.5
ENGINE LOG ENTRY

1. Comply with pre-buy inspection. /// Pre-buy inspection completed as requested.
2. Request engine compression check be completed. /// Completed engine compression check IAW Continental Engine SPMM 6-4 sec. 11.2. All compressions are good: Eng. Cyl. #1 66/80, #2 78/80, #3 75/80, #4 77/80, #5 75/80, #6 68/80

I certify that the aircraft, aircraft engine, propeller, or appliance identified above was repaired and/or inspected in accordance with current FAA regulations and was found airworthy with respect to the work performed and is approved for return to service.

Signature Technician [REDACTED]

[REDACTED]
A/C Make/Model: Cirrus SR22T
A/C S/N: 0891
Engine Model: TSIO-550-K
Engine S/N: 1010814

N164CP
5-14-2019
Work Order 12497

Flight Hobbs: 653.2
ACTT: 653.2
Hobbs: 743.6

Completed the following Engine Maintenance and/or Inspection(s):

Maintenance & Service Items:

- Performed oil change using 8 quarts X/C 20w-50. Removed, cut open and inspected filter, no defects noted. Installed NEW P/N CH48108-1 oil filter. Ref: SR22 MM 12-10, CMI Standard Practice Manual 6-4.8.2.
- Post maintenance operational and leak check found to be satisfactory.

I certify that the aircraft, airframe, aircraft engine, propeller or appliance identified above was repaired and inspected in accordance with current FAA regulations and was determined to be in airworthy condition and is approved for return to service with respect to the work performed. Pertinent details of this repair and/or inspection are on file at this repair station under Work Order # [REDACTED]

End

Inc.- 625 Buss Avenue - Greeley, CO 80631
----- COMPLETE ASSEMBLY -----
d inspected for cracks, none found. Honed Steel Bore
standard limits. Installed and sized new intake and
des. Ground and lapped both seats. Faced and
seable intake valve and serviceable exhaust valve.
lodined Cylinder Assembly. Gapped and installed
iceable piston. Assembled Cylinder
s, safeties and seals as required. -END

[REDACTED]
N164CP Continental TSIO-550-K(1B) S/N: 1010814 Total Time: 0516.4
26 February 2018 Flight Hobbs: 0516.4 Hobbs Meter: 0588.0
100 Hour Inspection for Annual completed this date using the Cirrus SR22T Scheduled Maintenance
Report as a guide. Compression test: #1) 71/80, #2) 72/80, #3) 63/80, #4) 14/80, #5) 35/80, #6) 58/80.
M.O.-49. Lapped #5 and #6 exhaust valves. Cylinders reassembled using new gaskets and bend tabs Post
repair compression tests: #5) 72/80 and #6) 75/80. Removed #4 cylinder P/N: 658595A1, S/N:
AC14GA380/5431 for repair. Installed cylinder after repair by A.C.E. ,Inc. A/P #3969053, dated 2/20/2018
using TMC M.O. Manual with new o-rings, seals and gaskets. Changed engine oil and filter using (Phillips
X/C 20W50M). Cut oil filter open and inspected, no contaminates noted. Cleaned, gapped, tested, and
rotated spark plugs. Installed one new #2 upper cylinder spark plug P/N:URHB32E. Checked and adjusted
timing of left and right magnetos to engine. Removed 90 degree fitting on left magneto, cleaned and
reinstalled with retaining compound. Leak checked fuel system. Performed 12 month #1 Alternator Brush
Inspection, no defects noted. Next #1 alternator brush inspection due February 2019. Inspected and
lubricated throttle and mixture controls, operational check good. Cleaned turbocharger oil inlet check
valve per CMI M-O. Tightened left forward heat shield breeze clamp. Installed new induction air filter
elements due to condition. Next replacement due Flight Hobbs Time: 1016.4 or February 2021.
Complied with Cirrus SA 13-01 (Exhaust Crack Inspection) by visually inspecting the left turbocharger
transition for cracks as outlined in Service Advisory. No defects noted. Next inspection due at scheduled
oil change. Complied with Cirrus SA 17-05 (CMI SB 16-8 (Turbo Transition Inspection)) by visual
inspection of transition. No defects noted. Cirrus SA 17-16 R1 (Turbo Center Housing Inspection) N/A
by serial number. AD's checked through Biweekly 2018-04. Post inspection ground run-up, leak check and
operational check satisfactory. I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN

N164CP
HOBBS: 660.7

AIRFRAME
CIRRUS SR22

8/22/2018
S/N: 0891

1. WO 3402258-004 Serviced O2 to 2000psi IAW Cirrus AMM SR22T 35-00.
2. WO 3402258-006 Conducted a pre-run, drained oil acquiring a SOAP sample, removed oil filter and inspected finding no
defects. Replaced oil filter P/N CH 48108-1 and replenished with 9 quarts of Phillips SAE 20W-50 IAW Cirrus SR22T
AMM 79-20 and 12-10

THIS AIRCRAFT WAS INSPECTED AND/OR REPAIRED IN ACCORDANCE WITH CURRENT
IS APPROVED FOR RETURN

PART 43 AND
FAA APPROVED

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ctives,

Carr

[REDACTED] Continental
14 March 2019 Flight Hobbs
100 Hour Inspection for Annual c
Report as a guide. Compression test
Lapped #3 exhaust valves as needed
oil and filter using (Phillips X/C 20
Blackstone oil sample taken and sub
and right magnetos. Installed new po
reinstalled and timed left and right m
required. Tightened exhaust heat shi
heat receptacle. Installed new adel c
pipe clamp. Re-attached RAM baffl
and lubricated throttle and mixture c
valve per CMI SIL-17-02. Performe
ALE1013AS. Next #1 alternator b
(Exhaust Crack Inspection) by vis
Service Advisory. No defects noted
Continental SIL 17-02 (Check Va
Installed CamGuard just prior to po
Post inspection ground run-up

Model: Con

1. Comply with pre-buy inspection
2. Request engine compression
Continental Engine SPMM 6-4
#3 75/80, #4 77/80, #5 75/80

I certify that the aircraft, aircraft eng
and/or inspected in accordance with
to the work performed and is appro