



ENGINE MAINTENANCE RECORDS

Log No. 1

Aircraft Registration No. N112TR

Engine Manufacturer Continental

Model 10-550-N

Serial No. 1001689

Date installed on aircraft _____

Time Between Overhauls (TBO) 2000 Hours

If used on multi-engine aircraft:

☐ Right

☐ Left

Waco Regional Airport
7505 Karl May Drive • P.O. Box 5219 • Waco, Texas 76708
Phone: (254) 752-8381 Fax: 254-752-3307
www.ramaircraft.com

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATION NO. OF PERSON PERFORMING WORK
				TOTALS brought forward from previous page

Date	Total Time In Service	Total Time Since Overhaul	Tach or Recording Meter Time
2/8/19	2242.3	0.0	



RAM Aircraft, Limited Partnership • Waco Regional Airport

CONTINENTAL IO-550-N Engine S/N 1001689

Above referenced engine overhauled to new parts limits per FAR 43.2(a)(1)(2) to conform w/ CMI (M-16) and Continental M-O, Standard Practice Maintenance Manual. Applicable AD's and Service Bulletins C/W at this time. All dimensional limits within RAM Gear Inspection Specification No. 1818, Rev. P dated 07/19/2017. Installed new RAM SA628488 int., p/n SA646277 exh. AD 10-11-04 n/a to lifter p/n installed. Installed overhauled crankshaft assembly p/n 649900, s/n N13DA180 per TCM CSB96-8. C/W ultrasonic inspection per MSB96-10B, due at next overhaul or when crankshaft removed. AD 99-19-01 n/a per crankshaft date of manufacture I/A/W TCM Mandatory Service Bulletin. Engine assembled with installed new oil cooler p/n 8000953, s/n 4041283. AD 2012-10-13 and MSB11-4B Starter adapter inspection N/A per. P/N installed or manufacture date. Engine accessories exchanged for overhauled or new units with exception of prop governor, vacuum pump and alternator which were not installed per this work order. MSB94-8D on magneto timing 1 thru 3 CMI Service Bulletin Compliance Listing in RAM Manual. Engine ground run on test stand per RAM Grade Maintenance Tip MT-1 for recommended oils. This engine has been modified in accordance with Engine Technologies, Inc. STC SE10589SC see installation instructions report 22-6460020 and master drawing list number ETI-G2-1 Rev. K Dated 8/30/2012 or current revision. It is the installers responsibility to ensure all modifications meet current STC requirements. Engine approved for return to service for the work performed. Engine preserved per Continental M-O, Standard Practice Maintenance Manual temp. Storage up to 90 days. Pertinent details on file under Project No. 9016.

RAM Aircraft, Limited Partnership

Waco Texas 76708 CRS

TORNADO ALLEY TURBO INC.

ADA, OK 74820

N112TR CIRRUS SR22 SN: 3669

CONT IO-550-N SN: 1001689

ENGINE LOG BOOK ENTRY

29 MARCH 2019

FLIGHT: 1435.6 HOBBS: 1742.6

TSMO: 0.0

TORNADO ALLEY TURBO, INC.



REMOVED IO-550N SN 1002113 DUE TO TBO. INSTALLED RAM O/H IO-550N SN 1001689 IAW CMI M-0/M-16, TORNADO ALLEY 22-6460001, AND CIRRUS AMM. SEE ENGINE LOGBOOK ENTRY DATED 2/8/2019 FOR O/H DETAILS

INSTALLED O/H PROP GOV C290D3R/T23 S/N 090441
INSTALLED O/H PRV VALVE 470944-0017 S/N LKN00017

INSTALLED O/H WASTEGATE 470842-0004 S/N MAN00303

INSTALLED TURBOCHARGER 466304-0003 S/N H-VLL00172

INSTALLED TURBOCHARGER 466304-0003 S/N H-VLL00171

INSTALLED MP CONTROLLER 470688-0005 S/N H-VLN00001

REFURBISHED EXHAUST MANIFOLDS, WASTEGATE MANIFOLD, AND TAIL PIPES.

INSTALLED NEW EXHAUST PORT BASE GASKETS, FLANGE NUTS, TURBOCHARGER GASKETS, EXHAUST FLANGE GASKETS, WASTEGATE GASKETS, WASTEGATE MOUNTING BOLTS, WASHERS, AND NUTS, TAIL PIPE V-BAND CLAMPS

INSTALLED LIGHTWEIGHT HOSE KIT IAW TATI 10YR ICA

SERVICED ENGINE WITH 8QTS PHILLIPS 20/50 TYPE M OIL

SET UP TURBO AND FUEL SYSTEM PER SID 97-3G AND TATI ICA

RUN-UP, OP'S, TEST FLIGHT AND LEAK CHECK OK. APPROVED FOR RETURN TO SERVICE.
AIRPLANE WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH CURRENT MAINTENANCE RULES OF THE FEDERAL AVIATION REGULATIONS, ADVISORY CIRCULARS, AND APPROPRIATE MANUFACTURER'S MANUALS

WESLEY JENKINS

ENGINE MODEL: IO-550-N
ENGINE S/N: 1001689
REG. NO: N112TR
WORK ORDER: 201562

Clear Star Aviation

Repair Station No. 5CSR009B
Addison, TX 75001

DATE: 5/3/2019
A/C TSN: 1463.4
ENG TT: 27.8
TACH: 1463.4

Engine Entries

The oil and filter was changed and serviced with 8 quarts of Phillips 20W-50 X/C and one pint of CamGaurd and a new AA48108-2 filter. An oil sample was collected for analysis by Blackstone Laboratories. Ref Cirrus SR22 AMM 12-10 Sec B(2)

This aircraft/component is determined to be in airworthy condition is ok for return to service. Pertinent details of repair are on file at this Certified Repair Station 5CSR009B

DATE: 5/3/2019

SIGNED: [REDACTED]

Work Order: 201562

Johnson, Jacob
Certified Repair Station No. [REDACTED]

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McClymond Aviation, LLC

Grand Junction, Co.

Date: 05/24/2019 REG: N112TR MAKE/MODEL: Cirrus SR22 S/N: 3669 TACH: 1484.2

Engine: TCM IO-550-N S/N: 1001689 TTE: 48.6

Drained engine oil and removed oil filter. Cut filter and inspected for contaminants, none found. Installed new oil filter P/N: CH48108-1, serviced engine with 8 quarts of Phillips XC 20W50 & 1 pint Cam Guard.

I certify the above maintenance has been completed.

W.O. # 2019-302

Tyler L. McClymond

1ED—
REFORMING WORK

August 2 2019

N112TR

Cirrus SR22 S/N 3669

Flt time: 1531.2



Erie Municipal Airport
Erie, Colorado 80516

1. Drained engine oil removed and examined oil filter. No contamination found. Serviced with 8qts Phillips XC20W50 and new CH48108-1 oil filter. Performed run up leak check.
2. Adjust engine driven fuel pump max RPM fuel flow. -----END-----

Paul D Randall

ARAPAHOE AERO

ENGLEWOOD, COLORADO 80112

N112TR Continental IO-550-N(61B) S/N: 1002113 Total Time: 1607.6

15 November 2019 Flight Hobbs: 1607.6 Hobbs Meter: 1945.6

100 Hour Inspection for Annual completed this date using the Cirrus SR22 Maintenance Interval Inspection Form and the Tornado Alley Turbo, Inc, Scheduled Maintenance Check List as a guide. Compression test: #1) 75/80, #2) 75/80, #3) 77/80, #4) 74/80, #5) 75/80, #6) 74/80. Installed new #3-cylinder GAMI injector P/N: TIGT-550-19B(D). Changed engine oil and filter using (Phillips X/C 20W50). Cut oil filter open and inspected, no contaminants noted. Blackstone oil sample taken and submitted. Cleaned, gapped, tested, and rotated spark plugs. Checked timing of left and right magnetos to engine. Installed new magneto pressurization filter P/N: 1396-2. **Next pressurization filter due November 2022 or Flight Hobbs: 1957.6.** Leak checked fuel system. Performed 12-month #1 Alternator Brush Inspection, replaced #1 alternator brushes, P/N: ALE1013AS. Installed new screw on block assembly. **Next #1 alternator brush inspection due November 2020.** Complied with Tornado Alley 500 Hour Fuel Injection Nozzle Servicing by cleaned and resealed fuel injection nozzles. **Next fuel injection nozzle cleaning due Flight Hobbs: 2107.6.** Tightened #2 alternator belt. Installed new right turbo heat shield P/N: ETI-G2-20-28. Repositioned left exhaust tail pipe. Tightened right turbo mounting bolts. Installed new flange on intake box. Installed new right turbo duct breeze clamp. Inspected and lubricated throttle, mixture and propeller governor controls, operational check good. Complied with TATI SI08-01 (Tailpipe Crankcase Breather Discharge Tube) by cleaning away crankcase breather discharge tube coking deposits as outlined in Service Instruction. **Next inspection due Flight Hobbs: 1657.6 or next oil change.** Complied with TATI SI08-04 (Exhaust Heat Exchanger) by pressure test of left and right heat exchangers as outlined in Service Instruction, no defects noted. **Next inspection due Flight Hobbs: 1707.6.**

(Continued) (Page 1 of 2)

SUB-TOTALS this page

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ARAPAHOE AERO

[REDACTED] ENGLEWOOD, COLORADO 80112 [REDACTED]

N112TR Continental IO-550-N(61B) S/N: 1002113 Total Time: 1607.6

15 November 2019 Flight Hobbs: 1607.6 Hobbs Meter: 1945.6

Complied with TATI SI08-05 (Induction Air Filter) by inspecting and servicing induction air filter per Service Instruction. Next air filter inspection and servicing due Flight Hobbs: 1707.6. Complied with TATI SB09-01 (Exhaust Manifold Cracks) by inspecting exhaust manifolds for cracks around turbocharger mounting flanges, no defects noted. Next inspection due Flight Hobbs: 1657.6 or next oil change. Complied with TATI SB10-01 (Alternate Air Door Hinge Pin) by inspecting hinge pin ends on alternate air door for cracks, loose rivets and/or missing pin retention methods, no defects noted. Next inspection due November 2020. Complied with TATI SI11-01 (Exhaust Slip Joint Inspection) by inspecting exhaust system slip joints per instruction for indications of binding, distortion or damage from excessive temperatures, no defects noted. Next inspection due November 2020 or V-band clamp replacement. Complied with TATI SI11-03 (Turbocharger Support Inspection) by inspecting turbocharger and waste gate support assembly rods, no defects noted. Next inspection due November 2020 or V-band clamp replacement. Complied with TATI SB11-04 (Turbocharger Oil Supply Inlet Screen) by cleaning left and right turbocharger oil inlet screen of foreign material as per Service Bulletin. Next inspection due November 2020. Complied with TATI SI12-02 (Fuel Pump O-ring Seals) by inspecting the fuel pump mixture control shaft for fuel leakage per Service Bulletin with auxiliary fuel pump on "high", no defects noted. Next inspection due Flight Hobbs: 1657.6 or next oil change. Comply with Cirrus SB 2X-71-33 / CAT SB 18-08A (Cylinder Inspection) not applicable by manufacture date. AD's checked through Biweekly 2019-23. Post inspection engine ground run-up, operational check and leak check good. I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 HOUR INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION.

[REDACTED] Randy C. Johnson A&P [REDACTED] w/o 40682

ARAPAHOE AERO

[REDACTED] ENGLEWOOD, COLORADO 80112 [REDACTED]

N112TR Continental IO-550-N(61B) S/N: 1002113 Engine Log Entry

13 July 2020 Flight Hobbs: 1683.6 Hobbs Meter: 2036.7

Completed 50 Hour Servicing this date using Cirrus 50 Hour Inspection items as a guide. Changed engine oil and filter using (Phillips X/C 20W50). Cut oil filter open and inspected, no contaminants noted. Blackstone oil sample taken and submitted. CamGuard added as needed. Inspected magnetos, ignition harness and leads for condition and security. Inspected fuel injection system for leakage and component condition and security. Leak checked fuel system. Inspected induction system and alternate air door for security and operation. Inspected engine exhaust system, no defects noted. Checked lubrication and operation of throttle, mixture and propeller governor controls. Inspected engine compartment installation hardware for security. Inspected and wiped down engine cowling. Complied with TATI SI08-01 (Tailpipe Crankcase Breather Discharge Tube) by cleaning away crankcase breather discharge tube coking deposits as outlined in Service Instruction. Next inspection due Flight Hobbs: 1733.6 or next oil change. Complied with TATI SB09-01 (Exhaust Manifold Cracks) by inspecting exhaust manifolds for cracks around turbocharger mounting flanges, no defects noted. Next inspection due Flight Hobbs: 1733.6 or next oil change. Complied with TATI SB 12-02 (Engine Driven Fuel Pump) by inspecting the fuel pump mixture control shaft for fuel leakage per Service Bulletin with auxiliary fuel pump on "high", no defects noted. Next inspection due Flight Hobbs: 1733.6 or next oil change. Post inspection engine ground run-up, operational check and leak check good.

[REDACTED] Jason Daniel Schaaf A&P [REDACTED] w/o 41184

ARAPAHOE AERO

[REDACTED] ENGLEWOOD, COLORADO 80112 [REDACTED]

N112TR Continental IO-550-N(61B) S/N: S/N: 1001689 Engine Log Entry

08 October 2020 Flight Hobbs: 1746.2 Hobbs Meter: 2109.1

Installed new TIT probes 2 each P/N: 86245. Engine ground run-up and operational check satisfactory.

[REDACTED] L. John Wells A&P [REDACTED] w/o 41657

N112TR Cirrus SR-22, SN: 3669 TACH: 1759.3

Signed: [REDACTED]

DNT Avionics Grand Junction, Colorado 81506

For Pertinent Details Ref. WO# 760 Dated: 10/23/2020

Drained oil, removed & cut old filter with no defects noted. Installed new filter PN: AA48108-2. Torqued to 17 ft lbs & safety wired. Serviced Engine with 7 quarts of Phillips 66 XC 20W-50. Ground Ran aircraft. No leaks noted. This Aircraft Approved for Return to Service [REDACTED]

ARAPAHOE AERO

[REDACTED] ENGLEWOOD, COLORADO 80112 [REDACTED]

N112TR Continental IO-550-N S/N: 1001689 Total Time: 2598.2**18 December 2020 Flight Hobbs: 1791.5 SMOH: 0355.9 Hobbs Meter: 2161.2**

100 Hour Inspection for Annual completed this date using the Cirrus SR22 Maintenance Interval Inspection Form and the Tornado Alley Turbo, Inc. Scheduled Maintenance Check List as a guide. Compression test: #1) 74/80, #2) 75/80, #3) 76/80, #4) 75/80, #5) 76/80, #6) 74/80. Changed engine oil and filter using (Phillips X/C 20W50). Cut oil filter open and inspected, no contaminants noted. Oil sample taken and submitted. Installed new set of (12) Tempest URHB32E spark plugs. Torqued left and right V-band clamps. Removed left and right turbocharger support rods. Removed and replaced damaged chafe sleeve. Reassembled rods onto engine and safetied. Removed right wastegate control and replaced interconnect roll pins and reinstalled. Torqued left and right exhaust heat shield clamps. Installed new #5 fuel injector line P/N: 646425. Checked timing of left and right magnetos to engine. Leak checked fuel system. Inspected and lubricated throttle, mixture and propeller governor controls, operational check good. Installed new tailpipe V-band clamps, P/N: 11-1100023. **Next V-Band clamp replacement due at Flight Hobbs: 2241.5 or after 2145.1 at Annual or if clamp is removed Flight Hobbs: 2241.5.** Performed 24 Month #1 Alternator Brush Inspection, replaced #1 alternator brushes, P/N: ALE1013AS. **Next #1 alternator brush inspection due December 2022 or Flight Hobbs: 2291.5.** Complied with TATI SI08-01 (Tailpipe Crankcase Breather Discharge Tube) by cleaning away crankcase breather discharge tube coking deposits as outlined in Service Instruction. **Next inspection due Flight Hobbs: 1841.5 or next oil change.** Complied with TATI SI08-04 (Exhaust Heat Exchanger) by pressure test of left and right heat exchangers as outlined in Service Instruction, no defects noted. **Next inspection due Flight Hobbs: 1891.5.** Complied with TATI SI08-05 (Induction Air Filter) by inspecting and servicing induction air filter per Service Instruction. **Next air filter inspection and servicing due Flight Hobbs: 1891.5.** Complied with TATI SB09-01 (Exhaust Manifold Cracks) by inspecting exhaust manifolds for cracks. Right exhaust manifold found to be cracked. Installed new right exhaust manifold assembly P/N: 22-6850003 and rigged wastegate interconnect cable as needed. **Next inspection due Flight Hobbs: 1841.5 or next oil change.** Complied with TATI SB10-01 (Alternate Air Door Hinge Pin) by inspecting hinge pin ends on alternate air door for cracks, loose rivets and/or missing pin retention methods, no defects noted. **Next inspection due December 2021.** Complied with TATI SI11-01 (Exhaust Slip Joint Inspection) by inspecting exhaust system slip joints per instruction for indications of binding, distortion or damage from excessive temperatures, no defects noted. **Next inspection due December 2021 or V-band clamp replacement.** Complied with TATI SI11-03 (Turbocharger Support Inspection) by inspecting turbocharger and waste gate support assembly rods, no defects noted. **Next inspection due December 2021 or V-band clamp replacement.** Complied with TATI SB11-04 (Turbocharger Oil Supply Inlet Screen) by cleaning left and right turbocharger oil inlet screen of foreign material as per Service Bulletin. **Next inspection due December 2021.** Complied with TATI SI12-02 (Fuel Pump O-ring Seals) by inspecting the fuel pump mixture control shaft for fuel leakage per Service Bulletin with auxiliary fuel pump on "high", no defects noted. **Next inspection due Flight Hobbs: 1841.5 or next oil change.** Complied with Continental Aerospace Technologies AD 2020-16-11 (Cylinder Modification) complied with by visual inspection. CAT SB 18-08B found to be previously complied with. No additional action required. AD's checked through Biweekly 2020-25. Post inspection engine ground run-up, operational check and leak check good. **I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 HOUR INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION.**

[REDACTED] Gilbert C. Schoales, Jr. [REDACTED]

w/o 41786

ARAPAHOE AERO

ENGLEWOOD, COLORADO 80112

N112TR Continental IO-550-N(61B) S/N: 1001689 Engine Log Entry

10 January 2020 Flight Hobbs: 1634.1 Hobbs Meter: 1978.1

Completed 50 Hour Servicing this date using Cirrus 50 Hour Inspection items as a guide. Changed engine oil and filter using (Phillips X/C 20W50). Cut oil filter open and inspected, no contaminants noted. Blackstone oil sample taken and submitted. Inspected magnetos, ignition harness and leads for condition and security. Inspected fuel injection system for leakage and component condition and security. Leak checked fuel system. Inspected induction system and alternate air door for security and operation. Inspected engine exhaust system, no defects noted. Checked lubrication and operation of throttle, mixture and propeller governor controls. Inspected engine compartment installation hardware for security. Inspected and wiped down engine cowling. Adjusted MAP and fuel flow as needed. Installed serviceable alternate air door. Complied with TATI SI08-01 (Tailpipe Crankcase Breather Discharge Tube) by cleaning away crankcase breather discharge tube coking deposits as outlined in Service Instruction. Next inspection due Flight Hobbs: 1684.1 or next oil change. Complied with TATI SB09-01 (Exhaust Manifold Cracks) by inspecting exhaust manifolds for cracks around turbocharger mounting flanges, no defects noted. Next inspection due Flight Hobbs: 1684.1 or next oil change. Complied with TATI SB 12-02 (Engine Driven Fuel Pump) by inspecting the fuel pump mixture control shaft for fuel leakage per Service Bulletin with auxiliary fuel pump on "high", no defects noted. Next inspection due Flight Hobbs: 1684.1 or next oil change. Post inspection engine ground run-up, operational check and leak check good.

Jason Daniel Schaaf

w/o 40775

McClymond Aviation, LLC

Grand Junction, Co.

Date: 02/19/2021 REG: N112TR MAKE/MODEL: Cirrus SR22 S/N: 3669 TACH: 1810.4

Engine: TCM IO-550-N TTE: 374.8

Drained engine oil and removed oil filter. Cut filter and inspected for contaminants, none found. Installed new oil filter P/N: CH48108-1, serviced engine with 7 quarts of Phillips XC 20W50 & 1 pint Cam Guard.

I certify the above maintenance has been completed.

W.O. # 2020-440

Tyler L. McClymond

ARAPAHOE AERO

ENGLEWOOD, COLORADO 80112

N112TR Continental IO-550-N(61B) S/N: 1001689 Engine Log Entry

16 April 2021 Flight Hobbs: 1851.0 Hobbs Meter: 2231.9

Completed 50 Hour Servicing this date using Cirrus 50 Hour Inspection items as a guide. Changed engine oil and filter using (Phillips X/C 20W50). Cut oil filter open and inspected, no contaminants noted. Blackstone oil sample taken and submitted. Added CamGuard just prior to post-service ground run. Inspected magnetos, ignition harness and leads for condition and security. Inspected fuel injection system for leakage and component condition and security. Leak checked fuel system. Inspected induction system and alternate air door for security and operation. Inspected engine exhaust system, no defects noted. Checked lubrication and operation of throttle, mixture and propeller governor controls. Inspected engine compartment installation hardware for security. Inspected and wiped down engine cowling. Installed new engine preheat light P/N: TLN3039-06-115, in forward left baffle. Adjusted micro switch on alternate air door. Complied with TATI SI08-01 (Tailpipe Crankcase Breather Discharge Tube) by cleaning away crankcase breather discharge tube coking deposits as outlined in Service Instruction. Next inspection due Flight Hobbs: 1901.0 or next oil change. Complied with TATI SB09-01 (Exhaust Manifold Cracks) by inspecting exhaust manifolds for cracks around turbocharger mounting flanges, no defects noted. Next inspection due Flight Hobbs: 1901.0 or next oil change. Complied with TATI SB 12-02 (Engine Driven Fuel Pump) by inspecting the fuel pump mixture control shaft for fuel leakage per Service Bulletin with auxiliary fuel pump on "high", no defects noted. Next inspection due Flight Hobbs: 1901.0 or next oil change. Post inspection engine ground run-up, operational check and leak check good.

Nathaniel Alan Beuthel

w/o 41969

TOTALS—Carry forward to next page

ARAPAHOE AERO

[REDACTED] ENGLEWOOD, COLORADO 80112 [REDACTED]

N112TR Continental IO-550-N(61B) S/N: 1001689 Engine Log Entry**19 May 2021 Flight Hobbs: 1890.2 Hobbs Meter: 2275.8**

Completed 50 Hour Servicing this date using Cirrus 50 Hour Inspection items as a guide. Changed engine oil and filter using (Phillips X/C 20W50). Cut oil filter open and inspected, no contaminants noted. Blackstone oil sample taken and submitted. Added CamGuard just prior to post-service ground run. Installed new #6 EGT probe P/N: 24585-001. Inspected magnetos, ignition harness and leads for condition and security. Inspected fuel injection system for leakage and component condition and security. Leak checked fuel system. Inspected induction system and alternate air door for security and operation. Inspected engine exhaust system, no defects noted. Checked lubrication and operation of throttle, mixture and propeller governor controls. Inspected engine compartment installation hardware for security. Inspected and wiped down engine cowling. Complied with TATI SI08-01 (Tailpipe Crankcase Breather Discharge Tube) by cleaning away crankcase breather discharge tube coking deposits as outlined in Service Instruction. Next inspection due Flight Hobbs: 1940.2 or next oil change. Complied with TATI SB09-01 (Exhaust Manifold Cracks) by inspecting exhaust manifolds for cracks around turbocharger mounting flanges, no defects noted. Next inspection due Flight Hobbs: 1940.2 or next oil change. Complied with TATI SB 12-02 (Engine Driven Fuel Pump) by inspecting the fuel pump mixture control shaft for fuel leakage per Service Bulletin with auxiliary fuel pump on "high", no defects noted. Next inspection due Flight Hobbs: 1940.2 or next oil change. Post inspection engine ground run-up, operational check and leak check good.

[REDACTED] Jason Daniel Schaaf A&P [REDACTED]

w/o 42277

VG WORK

ARAPAHOE AERO

[REDACTED] ENGLEWOOD, COLORADO 80112 [REDACTED]

N112TR Continental IO-550-N(61B) S/N: S/N: 1001689 Engine Log Entry**19 July 2021 Flight Hobbs: 1918.8 Hobbs Meter: 2309.2**

Installed overhauled starter adapter P/N: 624085A17, S/N: 211276 with new gaskets, overhauled by Aircraft Accessories of Oklahoma, CRS #RV3R829L, reference 8130-3 dated 08 June 2021, WO #SO21-1276. Installed new starter P/N: PM2407, S/N: H-T011882. Weight and Balance updated as required. Engine ground run-up and operational check satisfactory.

[REDACTED] L. John Wells [REDACTED]

w/o 42467

ARAPAHOE AERO

[REDACTED] ENGLEWOOD, COLORADO 80112 [REDACTED]

N112TR Continental IO-550-N(61B) S/N: 1001689 Engine Log Entry**06 August 2021 Flight Hobbs: 1925.8 Hobbs Meter: 2317.8**

Completed 50 Hour Servicing this date using Cirrus 50 Hour Inspection items as a guide. Changed engine oil and filter using (Phillips X/C 20W50). Cut oil filter open and inspected, no contaminants noted. Blackstone oil sample taken and submitted. . Inspected magnetos, ignition harness and leads for condition and security. Inspected fuel injection system for leakage and component condition and security. Leak checked fuel system. Inspected induction system and alternate air door for security and operation. Inspected engine exhaust system, no defects noted. Checked lubrication and operation of throttle, mixture and propeller governor controls. Inspected engine compartment installation hardware for security. Inspected and wiped down engine cowling. Complied with TATI SI08-01 (Tailpipe Crankcase Breather Discharge Tube) by cleaning away crankcase breather discharge tube coking deposits as outlined in Service Instruction. Next inspection due Flight Hobbs: 1940.2 or next oil change. Complied with TATI SB09-01 (Exhaust Manifold Cracks) by inspecting exhaust manifolds for cracks. Left exhaust manifold found to be cracked. Installed new exhaust manifold, P/N: 22-6850011. Manifold installed using new gaskets and original hardware. Next inspection due Flight Hobbs: 1940.2 or next oil change. Complied with TATI SB 12-02 (Engine Driven Fuel Pump) by inspecting the fuel pump mixture control shaft for fuel leakage per Service Bulletin with auxiliary fuel pump on "high", no defects noted. Next inspection due Flight Hobbs: 1940.2 or next oil change. Post inspection engine ground run-up, operational check and leak check good.

[REDACTED] L. John Wells [REDACTED]

w/o 42527

SUB-TOTALS this page

TOTALS—Carry forward to next page

Date: 09/30/2021 REG: N112TR MAKE/MODEL: Cirrus SR22 S/N: 3669 TACH: 1964.4

Engine: TCM IO-550-N TTE: 528.8

D/ Drained engine oil and removed oil filter. Cut filter and inspected for contaminants, none found. Installed new oil filter P/N: CH48108-1, serviced engine with 7 quarts of Phillips XC 20W50 & 1 pint Cam Guard.

I certify the above maintenance has been completed.

W.O. # 2021-461

Tyler L. McClymond

Date: 11/16/2021

Registration: N112TR

Make: Continental IO-550-N

S/N: 1001689

Engine Logbook Insert

ACTT: 2018.3

**JACKSON
JETCENTER**
FBO CHARTERS MAINTENANCE
Boise, ID 83705

Complied with 50 hour inspection IAW Cirrus AMM 5-20.

Changed oil and filter. Filter cut and media inspection OK. Installed a new CH48108-1 filter and serviced engine with Phillips XC 20W50 oil. Post inspection operational run and leak checks satisfactory.

MAINTENANCE RELEASE: The Engine identified above was repaired and inspected in accordance with current regulations of the F.A.A and the was determined to be in an airworthy condition and approved for return to service with respect to the work performed. Pertinent detail on file at this Repair Station under Work Order No. JJC-1097.

Signature of Authorized Representative

F.A.A. Repair Station

ARAPAHOE AERO

ENGLEWOOD, COLORADO 80112

N112TR Continental IO-550-N S/N: 1001689 Total Time: 2836.1
22 January 2022 Flight Hobbs: 2029.4 SMOH: 593.8 Hobbs Meter: 2433.4

100 Hour Inspection for Annual completed this date using the Cirrus SR22 Maintenance Interval Inspection Form and the Tornado Alley Turbo, Inc, Scheduled Maintenance Check List as a guide. Compression test: #1) 75/80, #2) 75/80, #3) 76/80, #4) 72/80, #5) 75/80, #6) 77/80. No oil or filter change this inspection. Leak checked fuel system. Cleaned, gapped, tested, and rotated spark plugs. Checked timing of magnetos to engine. Inspected and lubricated throttle, mixture and propeller governor controls, operational check good. Removed both magnetos for 500 Hour magneto inspection Left P/N: 10-500556-101, S/N: D12BA054 and Right P/N: 10-500556-101, S/N: D12BA059. Magnetos were disassembled, cleaned, inspected. Installed new gear kits P/N: 10-357586A, points P/N: 10-382584, seals, cotter pins, felts and springs in both magnetos. Replaced slinger P/N: 10-51678 in right magneto only. Reassembled, and timed internally. Reinstalled and timed left and right magnetos to engine using new gaskets and installation hardware as required. Next 500 Hour magneto inspection due at Flight Hobbs: 2529.4. Complied with Tornado Alley 500 Hour Fuel Injection Nozzle Servicing by cleaned and resealed fuel injection nozzles. Next fuel injection nozzle cleaning due Flight Hobbs: 2529.4. Complied with 500 Hour Engine Mount Torque Check by verifying torque on attachment bolts, no defects noted. Performed 500 Hour / 2 Years #1 Alternator Brush Inspection, no defects noted. Next #1 alternator brush inspection due January 2024 or Flight Hobbs: 2529.4. Repositioned oil hose to prevent chafing on fuel strainer and fuel pump drain. Removed #2 alternator, repositioned wires to prevent chafing, reinstalled and adjusted belt tension. Removed #6-cylinder inner baffle assembly, installed oversize rivets and reinstalled baffle. Removed right wastegate clevis pin. Drilled arm and cable end fitting to 3/16". Reassembled using new cotter pin and safetied. installed new wastegate control arm and installed new clevis pins. Removed left intercooler support baffle. Fabricated and installed doublers as needed. Washed engine with solvent. Complied with TATI SI08-01 (Tailpipe Crankcase Breather Discharge Tube) by cleaning away crankcase breather discharge tube coking deposits as outlined in Service Instruction. Next inspection due Flight Hobbs: 2079.4 or next oil change. Complied with TATI SI08-04 (Exhaust Heat Exchanger) by pressure test of left and right heat exchangers as outlined in Service Instruction, no defects noted. Next inspection due Flight Hobbs: 2129.4. Complied with TATI SI08-05 (Induction Air Filter) by inspecting and servicing induction air filter per Service Instruction. Next air filter inspection and servicing due Flight Hobbs: 2129.4. Complied with TATI SB09-01 (Exhaust Manifold Cracks) by inspecting exhaust manifolds for cracks. No defects noted. Next inspection due Flight Hobbs: 2079.4 or next oil change. Complied with TATI SB10-01 (Alternate Air Door Hinge Pin) by inspecting hinge pin ends on alternate air door for cracks, loose rivets and/or missing pin retention methods, no defects noted. Next inspection due. Complied with TATI SI11-01 (Exhaust Slip Joint Inspection) by inspecting exhaust system slip joints per instruction for indications of binding, distortion or damage from excessive temperatures, Right dump tube found to be binding. Removed right tail pipe, reworked elbow for proper fit and reinstalled tail pipe. No further defects noted. Next inspection due January 2023 or V-band clamp replacement.

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DATE _____

ARAPAHOE AERO

ENGLEWOOD, COLORADO 80112

N112TR Continental IO-550-N S/N: 1001689 Total Time: 2836.1

22 January 2022 Flight Hobbs: 2029.4 SMOH: 593.8 Hobbs Meter: 2433.4 (Page 2 of 2)

Complied with TATI SI11-03 (Turbocharger Support Inspection) by inspecting turbocharger and waste gate support assembly rods Removed left and right wastegate supports and installed new top support brackets and bolts, adjusted for proper fit. Installed new chafe tubes for left and right turbo tension bolts and adjusted for proper fit. No further defects noted. **Next inspection due January 2023 or V-band clamp replacement.** Complied with TATI SB11-04 (Turbocharger Oil Supply Inlet Screen) by cleaning left and right turbocharger oil inlet screen of foreign material as per Service Bulletin. **Next inspection due January 2023.** Complied with TATI SI12-02 (Fuel Pump O-ring Seals) by inspecting the fuel pump mixture control shaft for fuel leakage per Service Bulletin with auxiliary fuel pump on "high", no defects noted. **Next inspection due Flight Hobbs: 2079.4 or next oil change.** AD's checked through Biweekly 2022-02. Post inspection engine ground run-up, operational check and leak check good. **I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 HOUR INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION.**

Gilbert C. Schoales, Jr.

w/o 42820

ARAPAHOE AERO

ENGLEWOOD, COLORADO 80112

N112TR Continental IO-550-N(61B) S/N: 1001689 Engine Log Entry
15 February 2022 Flight Hobbs: 2047.8 Hobbs Meter: 2455.3

Changed engine oil and filter using (Phillips X/C 20W50). Cut oil filter open and inspected, no contaminants noted. Blackstone oil sample taken and submitted. Removed starter adapter cover. Disassembled scavenge pump. Lapped pump housing body. Applied new silk thread and reassembled. Installed cap using new O-ring and original hardware. Corrected #2 and #4 EGT sensor locations in exhaust manifold. Installed new #2 EGT probe P/N: 24585-001. Installed fuel pressure test gauge, adjusted low end idle mixture and idle speed. Low end pressure found to be within limits. Engine ground run-up, operational check and leak check satisfactory.

L. John Wells

w/o 43095



Glendale Aero Services

Glendale, AZ 85307

Registration: N112TR

Date: 2/3/2022

Model: SR22TN

S/N: 3669

W/O: 80001165

Flt Hobbs: 2041.9

Hobbs: 2448.0

ENGINE LOG

Removed existing starter p/n PM2407 s/n H-T011882. Installed new Hartzell energizer starter p/n ES646275-1 s/n H-V062878, reference FAA form 8130 From Hartzell Engine Technologies Dated 23-JUN-2021 under w/o M189490 for details. Operational and leak checks normal. MX performed IAW Cirrus SR22/SR22T AMM Chapter 80-10.

Removed existing #2 & #5 EGT probes and installed 2 ea. new EGT probes Cirrus p/n 24585-001. Operational checks normal. MX performed IAW the Cirrus SR22/22T AMM Chapter 77-20.

SIGNATURE: John Fisher

FAA AUTHORIZATION:

SUB-TOTALS this page

TOTALS—Carry forward to next page