

# INSPECTION RECORD

## F.A.R. 43.11-91.409

DATE

AIRCRAFT TIME  
IN SERVICE

KIND OF INSPECTION - STATUS & DISCREPANCY LIST  
SIGNATURE - CERT. NO. OF PERSON APPROVING OR DISSAPPROVING AIRCRAFT FOR SERVICE

### ARAPAHOE AERO

12760 EAST CONTROL TOWER ROAD; ENGLEWOOD, COLORADO 80112

N462SR

Cirrus

SR22

S/N: 22-2495

Airframe Total Time: 1468.8

01 May 2017

Flight Hobbs: 1468.8

Hobbs Meter: 1621.7

Complied with Cirrus SB 2X-95-18 R3 (CAPS Rocket Replacement) by removal of rocket motor assembly, P/N: 21814-001, S/N: 3366, and parachute assembly P/N: 20331-001/C, S/N: 02797. Modified parachute enclosure as needed for installation of new rocket assembly. Installed rebuilt parachute assembly P/N: 25574-004-REB, S/N: 02579R1, rebuilt by Cirrus Design CRS# PC#338CE, reference 8130-3 Work Order 160324, dated 31 March 2017. **Next CAPS parachute repack due 29 March 2027.** Removed reefing line cutters P/N: 26707-001, S/N: 4426 & 4418 and installed on new parachute assembly. **Reefing Line Cutters expire January 2019.** Assembled new rocket motor and igniter components in accordance with Cirrus CAPS CMM. Rocket assembled using new electric igniter components as included in Cirrus Kit P/N: 70268-002. Installed new frangible link assembly, P/N: 29705-002. Installed new rocket motor assembly, P/N: 29500-403, S/N: 2285. **New Rocket Motor Assembly Expiration Date 06 March 2027.** Disassembled MCU as needed to gain access to Clock Power Fuse. Installed new fuse assembly and installed new fuse holder spade connectors. Completed wiring modifications at P/J100 and P138 connectors as needed. Installed CAPS igniter harness assembly and secured routing as needed. Assembled #2 battery box using new cover. Performed all CAPS electrical Resistance, Voltage and Diode checks. All readings found to be within Manufacturers Published Limits. Performed Pitot and Static system leak checks. Weight and Balance calculated using data as provided in Service Bulletin and incorporated into POH. Ground run operational check of aircraft systems satisfactory.

Nathaniel Alan Beuthel A&P

w/o 37531

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S/N: 22-2495

Airframe Total Time: 1468.8

01 May 2017

Flight Hobbs: 1468.8

Hobbs Meter: 1621.7

**100 Hour/Annual Inspection** completed this date using the Cirrus SR22 Maintenance Manual Inspection Form and the Precise Flight Oxygen System (STC) Instructions for Continued Airworthiness as a guide. Tested Artex ME406 ELT per FAR 91.207(d) using WS Technologies beacon measurement equipment, no defects noted, Beacon Test Report No. BT100AVtriple/3195/N462SR 4-12-17-1, dated 04-12-2017 on file. Installed new ELT remote arming switch battery P/N: PX28LB. **Next ELT remote arming switch battery replacement due May 2022. ELT battery replacement due September 2019.** Inspected and lubricated pilot's and co-pilot's cabin entry door latches. 319: Adjusted pilot's seat recline locks to allow for full engagement of break-over pins in the fully reclined position, operational check satisfactory. Tightened flap control lever. Lubricated rudder pedals. Secured SkyWatch cover to floor. Cleaned and lubricated control cables and bellcranks. Removed, cleaned, lubricated and reinstalled left aileron. Removed roll trim motor and applied Loctite to screws, reinstalled motor. Operational check good. Cleaned, primed and secured right upper gear fairing supports grommets as needed using new tape. Completed composite repair of inboard screw holes in right main fairing. Completed composite repair of crack in right main strut upper fairing. Installed new tie clip in left main strut upper fairing. Affixed lower right wing fairing with new tape. Replaced section of aft flange seal and secured with RTV. Removed left elevator main hinge pin and reinstalled with proper hardware and washer. Inspected, cleaned, resealed, and leak checked fuel strainer. Repaired left fuel tank vent in panel. Safetied left outboard fuel drain. Serviced and charged primary aircraft battery. Inspected nose landing gear strut for condition and security. Inspected nose and main gear tires for condition and security and serviced tires to specified pressures. 306: Installed a new right main tire, P/N: 156E66-4, S/N: 6328205 and tube, P/N: 092-500-0. Balanced wheel assembly as needed. Reinstalled assembly on aircraft. Cleaned, inspected and repacked wheel bearings using Mobile SHC 100 synthetic grease. Inspected brake disks, calipers and linings for condition and security. Installed new left and right hand brake linings, P/N: 066-06200. Conditioned brakes per Cleveland service instructions. Installed new right brake disc, P/N: 164-02504. Serviced brake fluid reservoir and bled brakes. Replaced left brake temperature sticker. Inspected nose and main wheel fairings for condition and security. Removed nose fork assembly and dressed minor gouge in thrust washer matting surface. (Continued) (Page 1 of 2)

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12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112

N462SR

Cirrus

SR22

S/N: 22-2495

Airframe Total Time: 1468.8

01 May 2017

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(Page 2 of 2)

Installed new upper spindle bearing, P/NN: 70544-001. Installed new anti-rotation set screw into nose fork. Assembled using new thrust washer, P/N: 70545. Set side tension as needed and installed new 1/8" cotter pin. Inspected oxygen system per Precise Flight Oxygen System (ICA) for component condition and security. Serviced oxygen cylinder and checked servicing port for leakage. Installed new TKS system filter P/N: 908-1 and cleaned and reinstalled TKS inline finger screen. **Next TKS filter replacement due May 2019 or Flight Hobbs Time: 2668.8.** Inspected cabin fire extinguisher for condition and security and performed 30 day cabin fire extinguisher weight check. Inspected CAPS system for component condition and security. Printed and inserted **TPOH 15-18** into Pilot's Operating Handbook. Complied with **Cirrus SA 06-06 (MCU Corrosion Inspection)** by removing MCU cover and inspecting unit for corrosion as outlined in Service Advisory and applying corrosion inhibitor per the Cirrus Design Service Manual, no corrosion noted. **Next MCU corrosion inspection due May 2018.** Complied with **Cirrus SB 2X-24-09 (TVS Fuse Installation)** by installing additional TVS fuse assembly per Service Bulletin. Complied with **Cirrus SB 2X-28-12 (Electric Fuel Pump Inspection)** by visual inspection and leak check of fuel pump per Service Bulletin, no defects or leakage noted. Printed and inserted TPOH change 15-27. Complied with **Cirrus SB 2X-32-19 R3 (Nose Landing Gear Upper Gusset Plate Inspection)** by inspecting the nose landing gear assembly gusset plates for cracks as outlined in Service Bulletin, One crack noted at left side of gusset plate. Crack is within allowable limits for continued service. **Next inspection due Hobbs Time: 1440.8.** Complied with **Cirrus SB 2X-52-08 R2 (Cabin Door Strut Diverters / Rod Ends)** by installation of rod ends and diverters as included in kit P/N: 70544-001. AD's checked through Biweekly 2017-08. Post inspection ground run-up and systems operational check good. Cleaned aircraft exterior, cleaned windscreen and cabin windows and vacuumed seats and interior. **I CERTIFY THAT THIS AIRCRAFT HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION.**

L. John Wells A&P

IA

w/o 37531

Date

Total Time

Time Since  
Last Overhaul

Hrs.

Min.

Hrs.

Min.

**Engine Service and Maintenance Record**Installations, Inspections, Airworthiness Directives, Special Inspections,  
Modifications and Service Bulletins

Brought From

**ARAPAHOE AERO**

12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112

N462SR

Continental

IO-550-N(46)

S/N: 689516

Total Time: 1468.8

01 May 2017

Flight Hobbs: 1468.8

Hobbs Meter: 1621.7

100 Hour Inspection for Annual completed this date using the Cirrus SR22 Maintenance Manual Inspection Form and the Tornado Alley Turbo, Inc. Scheduled Maintenance Check List as a guide. Compression test: #1) 72/80, #2) 70/80, #3) 74/80, #4) 70/80, #5) 72/80, #6) 68/80. Completed Borescope inspection of cylinders. Changed engine oil and filter using (Phillips X/C 20W-50). Cut oil filter open and inspected, no ferrous contaminants noted. Installed a new set of Tempest URHB32E spark plugs. Cleaned oil sump preheat plug to heat pad and applied RTV. Inspected ignition harness and leads for condition and security. Removed left and right magneto, cleaned and inspected. Installed new distributor gear kits, P/N: 10-357586. Set internal timing. Reinstalled magnetos on engine with new gaskets and set magnetos to engine timing. Installed new magneto pressurization filter P/N: 1396-2. Next filter replacement due May 2020 or Flight Hobbs Time: 1768.8. Complied with 500 Hour TATI Fuel Injection Nozzle Servicing by removing injectors, inspecting and cleaning, no defects noted. Next service due Flight Hobbs: 1968.8. Inspected fuel injection system for component condition and security. Adjusted "high-end" fuel flow as needed. Adjusted MAP as needed and safetied plug. Leak check fuel system. Inspected engine cooling baffles and seals for condition and security. Installed overhauled alternator P/N: 656802, S/N: H-P031053. Overhauled by Quality Aircraft Accessories Inc. CRS # QYIR334Y, reference 8130 dated 10 January 2017, WO# 022247. Secured #1 alternator ground strap. Inspected and pressure tested exhaust system. Replaced three Rosan studs and lock collars in #1 cylinder and one Rosan stud and lock collar in #6 cylinder. Replaced one stud and lock collar in #6 exhaust. Installed new gaskets and new hoses for intake. Cleaned and lubricated left manifold slip joints. Safetied and torqued left and right side V-band clamps. Applied RTV in gap on baffle by timing plug. Drilled right wastegate arm and clevis to accept 3/16" clevis pin. Installed new pin and safetied. Inspected turbocharger and wastegates for condition and security. Rugged wastegate interconnect cable as needed. Replaced right heat exchanger duct. Inspected and lubricated throttle, mixture and propeller governor controls, operational check good. Complied with TAT SI08-01 (Crankcase Breather Discharge Tube) by inspecting crankcase breather discharge tube and removing coking deposits as outlined in Service Instruction. Next inspection due at Flight Hobbs: 1518.8 or next oil change. Complied with TAT SI08-04 (Cabin Heat Augmenter/ Tailpipe Cracking) by pressure test of left and right heat exchangers as outlined in Service Instruction, no defects noted. Next inspection due Flight Hobbs: 1568.8. Complied with TAT SI08-05 (Induction Air Filter) by inspecting and servicing induction air filter per Service Instruction. Next induction air filter servicing due Flight Hobbs: 1568.8. Complied with TAT SB09-01 (Exhaust Manifold Cracks) by inspecting exhaust manifolds for cracks around turbo mount flanges, no defects noted. Next inspection due at Flight Hobbs: 1518.8 or next oil change. Complied with TAT 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 May 2018. Complied with TAT SI11-01 (Exhaust Slip Joint Inspection) by inspecting exhaust system slip joints per Service Instruction for indications of binding, distortion or damage from excessive temperatures. Next inspection due May 2018 or V-band clamp replacement. Complied with TAT SI11-03 (Turbocharger Support Inspection) by inspecting turbocharger and waste gate support rods per SI. Repositioned right turbocharger support to prevent further chafing on upper bushing. Next inspection due May 2018 or V-band clamp replacement. Complied with TAT SB11-04 (Turbocharger Oil Supply Inlet Screen) by cleaning left and right turbocharger oil inlet screens of foreign material per Service Bulletin. Next inspection due May 2018. Complied with TAT SB12-02 (Fuel Pump O-ring Seals) by inspecting the fuel pump mixture control shaft for fuel leakage per Service Bulletin. Next inspection due Flight Hobbs: 1518.8 or next oil change. Continental AD 2014-05-29 (Superior Air Parts Cylinder Head Separation) effective 04-25-2014, does not apply by installed TCM factory original cylinders, no further action required. Continental Motors AD 2016-16-12 (ECI Cylinder Assemblies) N/A by installed factory original cylinders. AD's checked through Biweekly 2017-08. 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.

L. John Wells A&amp;P w/o 37531

## ARAPAHOE AERO

12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 [REDACTED]

N462SR      Hartzell      HC-J3YF-1N/N7605B      S/N: FP5652B      Total Time: 1468.8

01 May 2017      Flight Hobbs: 1468.8      Calendar Time: 10 Years 00 Months

**100 Hour Inspection for Annual** completed this date using the Cirrus SR22 Maintenance Manual

Inspection Form as a guide. Inspected propeller hub for leakage and blades for condition and security.

Checked blade leading edges for stone nicks and painted blade faces. Inspected TKS system components for condition and security. Inspected spinner dome and spinner backplate for condition and security.

AD's checked through Biweekly 2017-08. **I CERTIFY THAT THIS PROPELLER HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 HOUR INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION.**

[REDACTED] L. John Wells A&P [REDACTED]

w/o 37531