

N513WC

ENGINE LOG BOOK



Service Information

Consult the Continental Motors web site at 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 bulletins 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
1-251-438-8299 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:

Mattituck Services
410 Airway Drive
Mattituck, NY 11952 USA

**USE ONLY FUEL CONFORMING TO ASTM D910
USE OF AUTOMOTIVE FUEL IS PROHIBITED**



Continental Motors, Inc.

Production Certificate 508

Printed: 4/4/2013

Test Date: 4/3/2013

This engine model TSI0550K1B, serial number 1008206 was manufactured by Continental Motors in accordance with approved design data and the applicable requirements of Part 21 of the Federal Aviation Regulation. The approved design data for this engine incorporates all changes required by applicable Airworthiness Directives and Continental Motors Service Bulletins.

Thomas Howard

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

ARAPAHOE AERO

12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386
N513WC Continental TSIO-550-K(1B) S/N: 1008206 Engine Total Time: 18.1
1 July 2013 Flight Hobbs: 18.1 Hobbs Meter: 24.5

Complied with first 25 Hour Inspection per the Cirrus scheduled maintenance interval which included a 100 hour engine inspection. Compression test #1) 74/80, #2) 76/80, #3 76/80, #4) 74/80, #5) 76/80, #6) 72/80. Torqued #5) cylinder valve rocker box cover screws. Changed engine oil and filter using (Aeroshell 15W-50). Cut oil filter open and inspected, no contaminants noted. Cleaned, inspected, gapped, tested, and rotated spark plugs. Inspected fuel injection lines for condition and security. Pressure tested exhaust system. Post inspection engine run up, leak check and operational check good.

[Signature]
 Jeremy D. Trussell A&P 610051913 w/o 33294

DATE: 09-24-2013

N: N513WC

HOBBS: 89.3

Drain oil. Check and change oil filter. Refill sump with 8 qts Aeroshell 15w50 oil. Clean off rear of engine and cowling. Run up checks satisfactory.

Larry Hallock
 A&P 2239535

[Signature]

Professional Aircraft Services
 4824 Earhart Rd, Loveland, CO 80538
 970-679-4633

ARAPAHOE AERO

12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386
N513WC Continental TSIO-550-K(1) S/N: 1008206 Engine Log Entry
14 January 2014 Flight Hobbs: 103.4 Hobbs Meter: 125.6

Completed 50 Hour Inspection this date using Cirrus 50 Hour Inspection items as a guide. Changed engine oil and filter using (Aeroshell 15W-50). Cut oil filter open and inspected, no contaminants noted. Inspected magnetos and condition and security of ignition leads. Inspected fuel injection system for leakage and component condition and security. Inspected engine case for leakage. Inspected engine case breather tube for obstructions. Inspected induction system and alternate air door for security and operation. Inspected cylinder drains and engine case breather tube for obstructions. Inspected engine exhaust system, no defects noted. Inspected engine compartment installation hardware for security. Checked lubrication and operation of throttle, mixture and propeller governor controls, operational check satisfactory. Inspected and wiped down engine cowling. Post inspection ground run-up and systems operational check satisfactory.

[Signature]
 L. John Wells A&P 3221132 w/o 33923

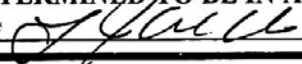
Date	Total Time		Time Since Last Overhaul		Engine Service and Maintenance Record Record maintenance actions including engine part removal and installation and compliance with inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
	Hours	Min	Hours	Min	

Carried forward →

ARAPAHOE AERO

12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386
 N513WC Continental TSIO-550-K(1) S/N: 1008206 Total Time: 132.5
 16 May 2014 Flight Hobbs: 132.5 Hobbs Meter: 158.3

100 Hour Inspection for Annual completed this date using the Cirrus SR22T Scheduled Maintenance Report as a guide. Compression test: #1) 75/80, #2) 72/80, #3) 75/80, #4) 73/80, #5) 72/80, #6) 73/80. Changed engine oil and filter using (Aeroshell 15W-50). Cut oil filter open and inspected, no contaminants noted. Checked timing of magnetos to engine. Inspected ignition harness for condition and security. Inspected fuel injection system for component condition and security. Leak checked fuel system. Inspected #1 alternator slip rings and brush assemblies, no defects noted. Inspected #2 alternator assembly for condition and security. Inspected cooling baffles and seals for condition and security. Remove baffle seal retainer mechanical rivet adjacent to intercooler and installed new AN machine screw, washer and self-locking nut. Inspected air conditioning system components for condition and security. Adjusted air conditioning compressor belt tension and installed new safety. Inspected and pressure tested exhaust system. Inspected and lubricated wastegate using Mouse Milk. Inspected and reinstalled induction air filters. Inspected and lubricated throttle, mixture and propeller controls, operational check satisfactory. Inspected Tanis engine preheat system components and wiring for condition and security, operational check satisfactory. Adjusted "high-end" fuel flow engine manifold pressure as needed. **Complied with Cirrus SA13-01 (Exhaust Crack Inspection)** by visually inspection the left turbocharger transition for cracks as outlined in Service Advisory, no defects noted. **Next inspection due at next oil change or Flight Hobbs: 182.5. Complied Continental SIL No. SIL14-4 (Alternator Brace Alignment)** by inspecting the alignment of the belt driven alternator to the bracket assembly using the (TCM) (SIL) as a guide. Installed (2) additional AN 960-716L washers and torqued installation hardware, no further action required. Continental (SB) No. SB13-4A (Aneroid Equipped Fuel Pumps) N/A by engine serial number. Continental AD 2014-05-29 (Superior Air Parts Cylinder Head Separation) effective 04-25-2014, does not apply by installed factory original cylinders. AD's checked through Biweekly 2014-09. Post inspection ground run-up, leak check and operational check satisfactory. **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&P 3221132 w/o 34345

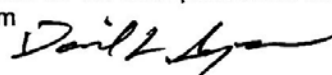
Mountain Aircraft Maintenance Inc.

P.O. Box 772114, Steamboat Springs, CO 80477 PH: 970-870-8986

N:513WC MAKE:TCM TSIO-550-K S/N:1008206 Hobbs:197.4 Flt. Hobbs:168.3 DATE:11/05/14


Ground ran engine to warm oil. Changed oil & filter. Checked old filter for contamination. Serviced engine with Aeroshell 15W50 oil. Washed engine as required and ground ran for leak check. Satisfactory at this time. Engine returned to service for the work performed. W.O. 1101 - END -

Daniel L. Ingram
A&P3014106



Engine Service and Maintenance Record

Date	Total Time		Time Since Last Overhaul		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	→				

ARAPAHOE AERO
 12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386
 N513WC Continental TSIO-550-K(1) S/N: 1008206 Total Time: 182.4
 29 May 2015 Flight Hobbs: 182.4 Hobbs Meter: 215.7
100 Hour Inspection for Annual completed this date using the Cirrus SR22T Scheduled Maintenance Report as a guide. Compression test: #1) 76/80, #2) 77/80, #3) 78/80, #4) 75/80, #5) 75/80, #6) 75/80. Checked torque on all valve rocker cover screws. Changed engine oil and filter using (Aeroshell 15W-50). Cut oil filter open and inspected, no contaminants noted. Checked timing of magnetos to engine. Inspected ignition harness for condition and security. Cleaned and resealed fuel injection nozzles. **Next fuel injection nozzle servicing due Flight Hobbs: 482.4.** Inspected fuel injection system for component condition and security. Leak checked fuel system. Inspected #1) alternator slip rings and brush assemblies, no defects noted. **Next alternator brush inspection due May 2016.** Inspected #2) alternator assembly for condition and security. Inspected cooling baffles and seals for condition and security. Removed mechanical rivet and installed new #1) alternator close out AN machine screw, washer and self-locking nut. Inspected air conditioning system components for condition and security. Installed new air compression accessory drive seal P/N: 25102 and reinstalled assembly using new gasket P/N: 653487. Inspected and pressure tested exhaust system. Inspected turbochargers and wastegate for condition and security and lubricated wastegate using Mouse Milk. Inspected and reinstalled induction air filters. Inspected and lubricated throttle and mixture controls, operational check good. Inspected Tanis engine preheat system components and wiring for condition and security, operational check satisfactory. Adjusted engine manifold pressure as needed. Complied with Cirrus (SA) No. SA13-01 (Exhaust Crack Inspection) by visually inspection the left turbocharger transition for cracks as outlined in Service Advisory, no defects noted. **Next inspection due at next oil change or Flight Hobbs: 232.4.** AD's checked through Biweekly 2015-11. Post inspection ground run-up, leak check and operational 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.**

 Simon J. Rubino A&P 2670700 w/o 35606

ENGINE MODEL: TSIO 550 K
 ENGINE S/N: 1008206
 REG. NO: N513WC
 WORK ORDER: 17149-07-2015



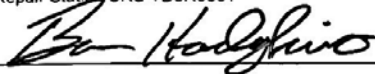
Cirrus Design Factory Service Center
 Repair Station No. YD5R855Y
 4961 Airport Road
 Duluth, MN 55811
 Phone: 218-788-3049

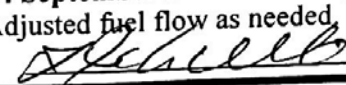
DATE: 7/15/2015
 A/C TSN: 203.5
 ENG TT: 203.5
 FLIGHTTIME: 203.5

Engine Entries

- (5) Adjusted MAP controller to within CMI specs IAW CMI M-18.
- (6) Adjusted fuel flow to within CMI specs IAW CMI M-18.

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: 7/15/2015 SIGNED:  Work Order: 17149-07-2015
 Ben Hodgkins Certified Repair Station No YD5R855Y Printed by EBIS 3 (datcomedia.com)

ARAPAHOE AERO
 12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386
 N513WC Continental TSIO-550-K(1) S/N: 1008206 Engine Log Entry
 14 September 2015 Flight Hobbs: 0223.7 Hobbs Meter: 0255.6
 Adjusted fuel flow as needed

 L. John Wells A&P 3221132 w/o 35994

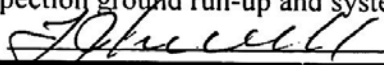
Date	Total Time		Time Since Last Overhaul		Engine Service and Maintenance Record
	Hours	Min	Hours	Min	
Carried forward →					Record maintenance actions including engine part removal and installation and compliance with inspections, Airworthiness Directives, Special Inspections, Modifications and Service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

ARAPAHOE AERO

12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386
 N513WC Continental TSIO-550-K(1) S/N: 1008206 Engine Log Entry

14 November 2015 Flight Hobbs: 0243.0 Hobbs Meter: 0288.4

Completed 50 Hour Servicing this date using Cirrus 50 Hour Inspection items as a guide. Changed engine oil and filter using (Aeroshell 15W-50). Cut oil filter open and inspected, no contaminants noted. Inspected magnetos and condition and security of ignition leads. Inspected fuel injection system for leakage and component condition and security. Inspected engine case for leakage. Complied with Cirrus SA 15-04 / CMI CSB 15-2 (Oil Cooler Cross Fitting) by installing new Cross Fitting, P/N: 658607. All associated fittings and hoses torqued in reference to the limits and procedures outlined in Service Bulletin and CMI Overhaul Manual M-18. Ground run operational check of oil pressure indication and leak checks satisfactory. Inspected engine case breather tube for obstructions. Inspected induction system and alternate air door for security and operation. Inspected cylinder drains and engine case breather tube for obstructions. Inspected engine exhaust system, no defects noted. Inspected engine compartment installation hardware for security. Checked lubrication and operation of throttle, mixture and propeller governor controls, operational check satisfactory. Inspected and wiped down engine cowling. Post inspection ground run-up and systems operational check satisfactory.



L. John Wells A&P 3221132 w/o 36207

ARAPAHOE AERO

12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386
 N513WC Continental TSIO-550-K(1) S/N: 1008206 Total Time: 298.9

1 July 2016 Flight Hobbs: 298.9 Hobbs Meter: 355.6

100 Hour Inspection for Annual completed this date using the Cirrus SR22T Scheduled Maintenance Report as a guide. Compression test: #1) 68/80, #2) 66/80, #3) 68/80, #4) 68/80, #5) 64/80, #6) 72/80. Changed engine oil and filter using (Shell 15W-50). Cut oil filter open and inspected, no contaminants noted. Checked timing of magnetos to engine. Inspected ignition harness for condition and security. Inspected fuel injection system for component condition and security. Leak checked fuel system. Inspected #1) alternator slip rings and brush assemblies, no defects noted. Next alternator brush inspection due July 2017. Inspected #2) alternator assembly for condition and security. Inspected cooling baffles and seals for condition and security. Inspected air conditioning system components for condition and security. Inspected and pressure tested exhaust system. Inspected turbochargers and wastegate for condition and security. Inspected and reinstalled induction air filters. Inspected and lubricated throttle and mixture controls, operational check good. Inspected Tanis engine preheat system components and wiring for condition and security, operational check satisfactory. Removed elbow fitting at oil pressure transmitter. Cleaned and reinstalled. No further leak detected. Multiple rocker covers are leaking, torqued affected hardware, no further leak detected. Removed and re installed turbocharger after cooler after repairs by Heliarc Welding Service, Inc., CRS# VX3R935L, wo#15892 dated 24 June 2016. Complied with Cirrus SA13-01 (Exhaust Crack Inspection) by visually inspection the left turbocharger transition for cracks as outlined in Service Advisory, no defects noted. Next inspection due at next oil change. Complied with CMI SB 16-03 (Turbo Oil Check Valve Clean) by visual inspection of transition, no defects noted. Complied with Cirrus SB2X-71-27R1 (Alternate Air Box Bracket Inspection) by removing alternate air box and inspecting oil sump for deformation and chafing per (TCM) SB15-3. Minimal contact noted and wear is below .010". Reinstalled alternate air box using one additional shim and new fasteners as provided kit P/N: 70518-001, no further action required. AD's checked through Biweekly 2016-12. Post inspection ground run-up, leak check and operational 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.



Simon J. Rubino A&P 2670700 w/o 36799

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

ARAPAHOE AERO
 12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386
N513WC Continental TSIO-550-K(1) S/N: 1008206 Engine Log Entry
10 November 2016 Flight Hobbs: 365.8 Hobbs Meter: 445.7
 Adjusted manifold air pressure as needed. Operational check satisfactory.
[Signature] L. John Wells A&P 3221132 IA w/o 37415

ARAPAHOE AERO
 12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386
N513WC Continental TSIO-550-K(1) S/N: 1008206 Engine Log Entry
15 December 2016 Flight Hobbs: 404.6 Hobbs Meter: 493.3
Completed 50 Hour Servicing this date using Cirrus 50 Hour Inspection items as a guide. Changed engine oil and filter using (Shell 15W50). Cut oil filter open and inspected, no ferrous contaminants noted. Inspected fuel injection system for leakage and component condition and security. Inspected engine case and oil lines for leakage. Inspected induction system and alternate air door for security and operation. Inspected cylinder drains and engine case breather tube for obstructions. Inspected engine exhaust system, no defects noted. Checked lubrication and operation of throttle, mixture, propeller controls. Inspected engine compartment installation hardware for security. Inspected, wiped down engine cowling and torqued all rocker box screws. Post inspection engine ground run-up, operational and leakage check good.
[Signature] Cody R. Robinson A&P 3159980 w/o 37519



N513WC 01-10-2017 Flight time 432.6
 Drained oil and removed filter. Installed new tempest 48108-2 oil filter and installed 8 qts Aeroshell 15W50 oil. Test ran all opps ok.
[Signature] C. G. Lucas
 A&P 2822684 IA W/O 17-00022



N513WC 06-08-2017 Hobbs:752.8 Flight Time:613.9
 Drained oil and removed oil filter. Installed new CH48108-1 oil filter, and installed 8 quarts of Aeroshell 15W50 oil. Test ran all opps ok.
[Signature] C. G. Lucas
 A&P 2822684IA W/O 17-00278



N513WC 06-28-2017 Hobbs: 773.0 Flight: 631.0
 Compressions #1-76/80, #2-74/80, #374/80, #4-77/80, #5-77/80, #6-75/80. A.D.2016-21-04 N/A. I certify that this engine has been inspected in accordance with a 100hr inspection and has been found to be airworthy.
[Signature] C. G. Lucas
 A&P 2822684IA W/O 17-00313

ARAPAHOE AERO

12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386

N513WC Continental TSIO-550-K(1) S/N: 1008206 Engine Log Entry

06 July 2017 Flight Hobbs: 0631.9 Hobbs Meter: 0775.7

Installed test gauge and completed fuel set-up per CMI M-O. Adjusted idle speed and idle mixtures as needed. Adjusted MAP. Final ground runs satisfactory.

L. John Wells

L. John Wells A&P 3221132 w/o 38147

ord

il and

h inspections, Airworthiness Directives, ns and Service Bulletins



VAIL VALLEY JET CENTER

N513WC 11/15/2017 Hobbs 905.7 Total Time: 737.0
Changed Oil and Filter Installed 9 Quarts Aeroshell 15/50
and Champion CH108-1 filter. Serviced tires with Nitrogen
62 lbs. Mains and 40 lbs. Nose.

Larry Cheatwood

Larry Cheatwood

A&P 585122494



VAIL VALLEY JET CENTER

N513WC 02-08-2018 Hobbs time: 1001.4
Removed existing TIT probe and installed New Cir-
rus part number 29211-001 probe.

C. G. Lucas

C. G. Lucas

A&P 2822684IA

S/O 18-00101



VAIL VALLEY JET CENTER

N513WC 03-01-2018 Hobbs time: 4692.6 Flight
time 0823.0. Drained oil removed oil filter. Installed
new Ch48108-1 filter and 8 qts Aeroshell 15W50.
Checked torque on intake and exhaust hardware.

C. G. Lucas

C. G. Lucas

A&P/2822684IA

S/O 18-00101

ARAPAHOE AERO

12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386

N513WC Continental TSIO-550-K(1) S/N: 1008206 Engine Log Entry

05 May 2018 Flight Hobbs: 0848.5 Hobbs Meter: 1043.9

Removed both magnetos for 500 hour magneto inspection. Magnetos were disassembled, cleaned, inspected. Installed new gear kits P/N: 10-357586, felts, point sets P/N: 10-382584 and safeties. Degaussed impulse coupling bodies and cams. Installed new springs. Reassembled magnetos and set internal timing. installed magnetos using new gaskets and timed to engine. Installed new set of (12) Tempest URHB32E spark plugs. Replaced screw at aft corner of left intercooler. Ground run operational and leak check satisfactory.

L. John Wells

L. John Wells A&P 3221132

w/o 38989

ARAPAHOE AERO

12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386

N513WC

Continental

TSIO-550-K(1)

S/N: 1008206

Total Time: 0859.9

26 July 2018

Flight Hobbs: 0859.9

Hobbs Meter: 1059.5

100 Hour Inspection for Annual completed this date using the Cirrus SR22T Scheduled Maintenance Report as a guide. Compression test: #1) 44/80, #2) 42/80, #3) 60/80, #4) 62/80, #5) 68/80, #6) 65/80. Lapped #1 and #2 exhaust valves as needed. Post compression test #1) 73/80 and #2) 63/80. Changed engine oil and filter using (Shell 15W-50). Cut oil filter open and inspected, no contaminants noted. Checked timing of magnetos to engine. Inspected fuel injection system for component condition and security. Leak checked fuel system. Secured #1, #3 and #5 fuel injector lines with ty wraps. Inspected #1) alternator slip rings and brush assemblies, replaced brushes, P/N:ALE1013AS. **Next alternator brush inspection due July 2019.** Replaced #2 alternator belt P/N: 657970. Installed new oil cooler P/N: 6587556, S/N: A18-14781-92 with new gaskets and torqued. Inspected and pressure tested exhaust system. Inspected turbochargers and wastegate for condition and security. Inspected and reinstalled induction air filters. Inspected and lubricated throttle and mixture controls, operational check good. Complied with Cirrus SA13-01 (Exhaust Crack Inspection) by visually inspection the left turbocharger transition for cracks as outlined in Service Advisory, no defects noted. **Next inspection due at next oil change.** Complied with CMI SB 16-8 (Turbo Transition Inspection) by visual inspection of transition, no defects noted. Complied with Cirrus SB 2X-79-07R1 (Oil Return Line Chafing) by installing two adel clamps. AD's checked through Biweekly 2018-16. Post inspection ground run-up, leak check and operational 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.

Randy C. Johnson A&P 3123186

w/o 39212

ARAPAHOE AERO

12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386

N513WC

Continental

TSIO-550-K(1)

S/N: 1008206

Engine Log Entry

23 January 2019

Flight Hobbs: 0888.9

Hobbs Meter: 1100.0

Adjusted MAP and fuel flow as needed.

L. John Wells A&P 3221132

w/o 39813

ARAPAHOE AERO

12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386

N513WC

Continental

TSIO-550-K(1)

S/N: 1008206

Engine Log Entry

06 June 2019

Flight Hobbs: 0968.9

Hobbs Meter: 1202.3

Installed new left TIT probe P/N: 29211-001. Operational check satisfactory.

L. John Wells A&P 3221132

w/o 40222

ARAPAHOE AERO

12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386

N513WC

Continental

TSIO-550-K(1)

S/N: 1008206

Total Time: 0995.6

06 August 2019

Flight Hobbs: 0995.6

Hobbs Meter: 1233.2

100 Hour Inspection for Annual completed this date using the Cirrus SR22T Scheduled Maintenance Report as a guide. Compression test: #1) 71/80, #2) 45/80, #3) 59/80, #4) 74/80, #5) 75/80, #6) 75/80. Lapped #2 exhaust valve as needed. Reassembled cylinder using new lock tab and gasket. Post repair compression test #2) 60/80. Changed engine oil and filter using (Shell 15W-50). Cut oil filter open and inspected, no contaminants noted. Checked timing of magnetos to engine. Inspected fuel injection system for component condition and security. Leak checked fuel system. Applied RTV to scat tubing to prevent chafing on controller. Reconnected engine fuel pump drain hose to "T" fitting. Installed new #5 fuel injection line clamp. Installed new left turbo transition P/N: 658681 and #4 exhaust T assembly P/N: 657648. Installed new #2 alternator P/N: 657199, S/N: H-T020598. Performed Annual #1 Alternator Brush Inspection, no defects noted. **Next inspection due August 2020.** Inspected and pressure tested exhaust system. Inspected turbochargers and wastegate for condition and security. Inspected and lubricated throttle and mixture controls, operational check good. Cleaned turbocharger oil inlet check valve per CMI M-O. Washed down engine using solvent. Installed induction air filters P/N: 27166-001. **Next replacement due August 2022 or Flight Hobbs: 1295.6.** Complied with 300 Hour Continental Fuel Injection Nozzle Servicing by removing injectors, inspecting and cleaning, no defects noted. **Next service due Flight Hobbs: 1295.6.** Complied with Cirrus SA13-01 (Exhaust Crack Inspection) by visually inspection the left turbocharger transition for cracks as outlined in SA, no defects noted. **Next inspection due at next oil change.** AD's checked through Biweekly 2019-15. Post inspection ground run-up, leak check and operational 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.**

Randy C. Johnson A&P 3123186

w/o 40384

October 11 2019
N315WC S/N: 0519
Continental TSIO-550K1B S/N 1008206
Flight Meter: 1018.3



Erie Municipal Airport
395 Airport Drive
Erie, Colorado 80516

rd
and
res,

1. Performed general inspection for pre-purchase evaluation. General visual inspection of overall engine installation, engine controls, mounts, fuel and oil lines was o.k.
2. Performed cylinder compression test: #1 74/80 #2 58/80 #3 52/80 #4 76/80 #5 76/80 #6 74/80. Borescoped cylinders for defects, none noted. Master Orifice 50. —END—

Paul D. Randall
Paul D Randall
AP30813411A

ENGINE MODEL:
ENGINE S/N:
REG. NO: 513WC
WORK ORDER: 29155



Aircraft Solutions dba Northwest Flight
8095 E Rutter Ave. Suite 2
Spokane, WA 99212
Phone: (509) 838-8883

DATE: 10/28/2019
A/C TSN:
ENG TT:
TSMOH:
HOBBS 1044 9

Engine Entries

Drained oil and inspected oil filter for contaminants, found okay Installed new filter, and serviced engine with 7 quarts Aeroshell 10W50 oil, sample sent to Blackstone

The aircraft and/or component(s) on 513WC was repaired and inspected in accordance with current FAR rules of the Federal Aviation Regulations and was found airworthy for return to service. Pertinent details of the repair are on file under Work Order No. 29155. Dated 10/28/2019

DATE: 10/28/2019

SIGNED:

Pete Reed

Work Order: 29155

Pete Reed, A&P: 3018502

Printed by EBis 3 (datcomedia.com)

Date: 11-27-2019
Registration: N513WC
Make: Cirrus SR22T
S/N: 0519

Engine Logbook Insert

Hobbs: 1332.7
Flight: 1075.6
AFL: UNK

**JACKSON
JETCENTER**
FBO | CHARTERS | MAINTENANCE
3673 Rickenbacker St. Boise, ID 83705

Fabricated patch on forward, center engine baffle ref AC43.13. Adjusted RH magneto timing to 24* ref EMM M-18. Replaced seal on engine LH accessory shaft with new seal 25102 ref EMM M-18. Replaced gasket on alternator #1 pad with new 653981. Replaced alternator belt with new 657970 ref AMM 24-30. Re-installed propeller with new O-ring C-3317-228 ref AMM 61-10. Post inspection operational run and leak checks satisfactory.

MAINTENANCE RELEASE: The Airframe 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 details on file at this Repair Station under Work Order No. JJC-19513.

Signature of Authorized Representative

[Signature]
F.A.A. Repair Station #GBBR155E

Date: 1/3/2020
Registration: N513WC
Make: Cirrus
S/N: 0519

Engine Logbook Insert

Hobbs: 1350.2
AFL:
ACTT: 1099.4

**JACKSON
JETCENTER**
FBO | CHARTERS | MAINTENANCE
3673 Rickenbacker St. Boise, ID 83705

Complied with Engine Oil and Filter Change. Ops and leak check good with no defects noted.

MAINTENANCE RELEASE: The Airframe 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 details on file at this Repair Station under Work Order No. JJC-20007.

Signature of Authorized Representative

[Signature]
F.A.A. Repair Station #GBBR155E

Date: 1-27-2020
Registration: N513WC
Make: Continental TSIO-550K1B
S/N: 1008206

Engine Logbook Insert

Hobbs: 1354.7
Flight: 1093.0
EngTT: 1093.0

**JACKSON
JETCENTER**
FBO | CHARTERS | MAINTENANCE
3673 Rickenbacker St. Boise, ID 83705

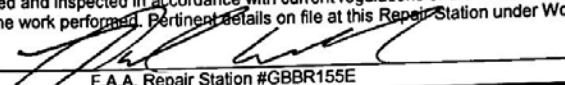
Removed engine from airframe and sent for overhaul. —END—

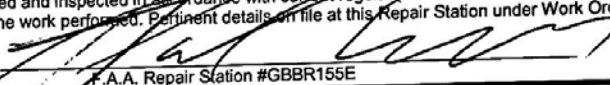
MAINTENANCE RELEASE: The Airframe identified above was repaired and inspected in accordance with current regulations of the F.A.A and the was determined to be in an airworthy condition and approved for return to service with respect to the work performed. Pertinent details on file at this Repair Station under Work Order No. JJC-20057.

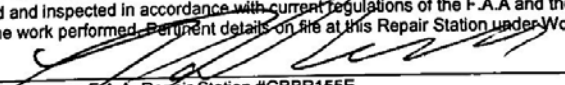
Signature of Authorized Representative

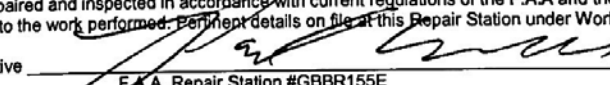
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F.A.A. Repair Station #GBBR155E

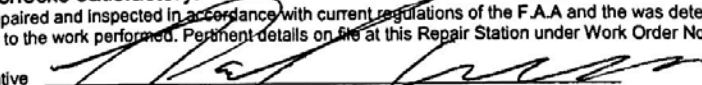
Date	Total Time		Time Since Last Overhaul		<i>Engine Service and Maintenance Record</i>
	Hours	Min	Hours	Min	
Record maintenance actions including engine part removal and installation and compliance with inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins					

Car	Date: 4-21-2020	<i>Engine Logbook Insert</i>			JACKSON JETCENTER <small>FBO CHARTERS MAINTENANCE 3673 Rickenbacker St. Boise, ID 83706</small>
	Registration: N513WC Make: Continental TSIO-550-K S/N: 1008206	Hobbs: 1354.7 Flight: 1093.0 ETSMOH: 0.0			
Installed Overhauled engine ref Cirrus Maintenance Manual 71-00 and TCM OH Manual M-18. Installed Overhauled Governor S-1-44F Serial G1604NJ. Installed repaired propeller PHC-J3Y1F-1N Serial NJ714B using new O-ring and nuts. Installed all new flexible fluid lines. Replaced all EGT probes with new. Performed fuel calibration, low idle, idle mixture, magneto timing checks. This engine has been inspected ref Cirrus Annual checklist 5-20. Post inspection operational run and leak checks satisfactory.					
MAINTENANCE RELEASE: The Airframe 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 details on file at this Repair Station under Work Order No. <u>JJC-20057</u> .					
Signature of Authorized Representative 					F.A.A. Repair Station #GBBR155E

	Date: 5-7-2020	<i>Engine Logbook Insert</i>			JACKSON JETCENTER <small>FBO CHARTERS MAINTENANCE 3673 Rickenbacker St. Boise, ID 83706</small>
	Registration: N513WC Make: Continental TSIO-550-K S/N: 1008206	Hobbs: 1384.3 Flight: 1115.9 ETSO: 22.9			
Drained engine oil and removed oil filter. Opened and inspected filter; no abnormal contamination noted. Removed, inspected, and reinstalled magnetic sump plug; no contamination noted. Installed new oil filter CH48108-1 and serviced engine with 8 Qts Phillips X/C 20W50. Adjusted mixture control rod end at fuel control ref Maintenance Manual CH 76-10. Re-adjusted high-end fuel flow to 39.3gph and high-end fuel psi to 24.5psi ref Cirrus SR22T Maintenance Manual Chapter 23-20. Manifold Pressure indicated 36.5Hg and RPM was 2500rpm during this test. Post inspection operational run and leak checks satisfactory. <u>END</u>					
MAINTENANCE RELEASE: The Airframe 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 details on file at this Repair Station under Work Order No. <u>JJC-20174</u> .					
Signature of Authorized Representative 					F.A.A. Repair Station #GBBR155E

	Date: 6-11-2020	<i>Engine Logbook Insert</i>			JACKSON JETCENTER <small>FBO CHARTERS MAINTENANCE 3673 Rickenbacker St. Boise, ID 83706</small>
	Registration: N513WC Make: Continental TSIO-550-K S/N: 1008206	Hobbs: 1419.4 ACTT: 1419.4			
Drained oil and removed filter. Opened and inspected filter; no contamination noted. Installed new oil filter CH48108-1 and serviced oil with 8qts Phillips X/C 20W50. An oil sample was sent for analysis at this time. Removed turbocharger oil inlet check valve, cleaned and re-installed. Installed new O-ring on starter. Adjusted magneto timing to 24 degrees ref MSB 94-8D. Removed propeller and indexed 180 degrees ref Cirrus Maintenance Manual 61-60. Performed compression check per customer request. Compressions/80psi were as follows: #1: 79, #2: 78, #3: 78, #4: 78, #5: 78, #6: 78. Master orifice reads 43psi. Serviced tires with dry nitrogen. Post inspection operational run and leak checks satisfactory.					
MAINTENANCE RELEASE: The Aircraft 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 details on file at this Repair Station under Work Order No. <u>JJC-20223</u> .					
Signature of Authorized Representative 					F.A.A. Repair Station #GBBR155E

	Date: 6-19-2020	<i>Engine Logbook Insert</i>			JACKSON JETCENTER <small>FBO CHARTERS MAINTENANCE 3673 Rickenbacker St. Boise, ID 83706</small>
	Registration: N513WC Make: Continental TSIO-550-K S/N: 1008206	Hobbs: 1427.1 Flight: UNK ETSO: 65.7			
Installed new #1 cylinder EGT probe 24585-001 ref installation instructions provided. Post inspection operational run and leak checks satisfactory. <u>END</u>					
MAINTENANCE RELEASE: The Airframe 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 details on file at this Repair Station under Work Order No. <u>JJC-20174</u> .					
Signature of Authorized Representative 					F.A.A. Repair Station #GBBR155E

	Date: 7-29-2020	<i>Engine Logbook Insert</i>			JACKSON JETCENTER <small>FBO CHARTERS MAINTENANCE 3673 Rickenbacker St. Boise, ID 83706</small>
	Registration: N513WC Make: Continental TSIO-550-K S/N: 1008206	Hobbs: 1475.9 Flight: 1192.0 ETSO: 99.0			
Drained engine oil and removed oil filter. Opened and inspected filter; no abnormal contamination noted. Removed, inspected, and reinstalled magnetic sump plug; no contamination noted. Installed new oil filter CH48108-1 and serviced engine with 8 Qts Phillips X/C 20W50. Adjusted sloped controller to achieve 36.4 Hg manifold pressure and verified 37.5 GPH fuel flow after adjustment. Sloped controller adjustment performed ref SR22T Maintenance Manual Chapter 73 and TCM TSIO-550-K Standard Practices Manual. Post inspection operational run and leak checks satisfactory. <u>END</u>					
MAINTENANCE RELEASE: The Airframe 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 details on file at this Repair Station under Work Order No. <u>JJC-20174</u> .					
Signature of Authorized Representative 					F.A.A. Repair Station #GBBR155E

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 forward →

Engine Logbook Insert

Date: 8-7-2020
Registration: N513WC
Make: Continental TSIO-550-K
S/N: 1008206

Hobbs: 1497.6
Flight: 1209.0

JACKSON JETCENTER
FBO | CHARTERS | MAINTENANCE
3673 Rickenbacker St. Boise, ID 83705

Adjusted high-end fuel flow to 39.5gph ref Cirrus SR22T Maintenance Manual Chapter 23-20. Manifold Pressure indicated 36.2Hg and RPM was 2500rpm during this test. Post inspection operational run and leak checks satisfactory. —END—

MAINTENANCE RELEASE: The Airframe 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 details on file at this Repair Station under Work Order No. JJC-20174.

Signature of Authorized Representative _____
F.A.A. Repair Station #GBBR155E

Engine Logbook Insert

Date: 9-01-2020
Registration: N513WC
Make: Continental TSIO-550-K
S/N: 1008206

Hobbs: 1522.0
Flight: 1229.7

JACKSON JETCENTER
FBO | CHARTERS | MAINTENANCE
3673 Rickenbacker St. Boise, ID 83705

Removed fuel injectors and cleaned ref Continental standard practices manual M-0. Purged fuel lines with injectors removed. Flow checked fuel injectors in their original positions with satisfactory results. Installed fuel injectors in their original positions with new gaskets 649950, O-rings 630979-9 and washers X1473 and rubber washers 640612 ref Continental Overhaul Manual M-18 and Cirrus SR22T Maintenance Manual CH73. Installed new #3 intake flange gasket 649950. Post inspection operational/ performance run and leak checks satisfactory. —END—

MAINTENANCE RELEASE: The Airframe 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 details on file at this Repair Station under Work Order No. JJC-4.

Signature of Authorized Representative _____
F.A.A. Repair Station #GBBR155E

Engine Logbook Insert

Date: 9-15-2020
Registration: N513WC
Make: Continental TSIO-550-K
S/N: 1008206

Hobbs: 1538.4
Flight: 1243.1
ETSO: 150.1

JACKSON JETCENTER
FBO | CHARTERS | MAINTENANCE
3673 Rickenbacker St. Boise, ID 83705

Drained engine oil and removed oil filter. Opened and inspected filter; no abnormal contamination noted. Installed new oil filter CH48108-1 and serviced engine with 8 Qts Phillips X/C 20W50. Post inspection operational run and leak checks satisfactory.—END—

MAINTENANCE RELEASE: The Airframe 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 details on file at this Repair Station under Work Order No. JJC-35.

Signature of Authorized Representative _____
F.A.A. Repair Station #GBBR155E

Engine Logbook Insert

Date: 11/3/2020
Registration: N513WC
Make: TCM
Model: TSIO-550-K
S/N: 1008206

Hobbs: 1598.5
Flight: 1295.1

JACKSON JETCENTER
FBO | CHARTERS | MAINTENANCE
3673 Rickenbacker St. Boise, ID 83705

Drained oil, took oil sample, removed and inspected oil filter with no discrepancies noted. Installed new oil filter p/n CH48108-1, and serviced engine with 8 quarts of Phillips X/C 20W50 oil. Post inspection operational run and leak checks satisfactory. —END—

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 details on file at this Repair Station under Work Order No. JJC-194.

Signature of Authorized Representative _____
F.A.A. Repair Station #GBBR155E

0

Engine Logbook Insert

Date: 01/26/2021
Registration: N513WC
Make: Continental TSIO-550-K
S/N: 1008206

Flight: 1343.6
ETSO: 250.6

JACKSON JETCENTER
FBO | CHARTERS | MAINTENANCE
3673 Rickenbacker St. Boise, ID 83705

Drained engine oil and removed oil filter. Opened and inspected filter; no abnormal contamination noted. Installed new oil filter CH48108-1 and serviced engine with 8 Qts Phillips X/C 20W50. Post maintenance operational run and leak checks satisfactory. —END—

MAINTENANCE RELEASE: The Airframe 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 details on file at this Repair Station under Work Order No. JJC-420.

Signature of Authorized Representative _____
F.A.A. Repair Station #GBBR155E

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

Date: 03/02/2021

Registration: N513WC
 Make: Continental TSIO-550-K
 S/N: 1008206


Engine Logbook Insert

Flight: 1355.0
 ETSMOH: 262.0

JACKSON JETCENTER
 FBO | CHARTERS | MAINTENANCE
 3673 Rickenbacker St. Boise, ID 83705

Performed Annual inspection Ref Cirrus MM 5-20. Compression test results: #1 70/80, #2 66/80, #3 72/80, #4 76/80, #5 71/80, #6 74/80. Changed oil and filter. Filter cut and media check OK. Installed new CH48108-1 filter and serviced with Phillips XC 20W50. C/W Cirrus service advisory SA13-01 by inspection of exhaust pipe, no defects noted. Installed new capacitor on LH magneto PN 10-400615. Researched ADs, including Bi-weekly through 2021-04. 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 details on file at this Repair Station under Work Order No. JJC-446.

Signature of Authorized Representative 
 F.A.A. Repair Station #GBBR155E

Date: 03/06/2021

Registration: N513WC
 Make: Continental TSIO-550-K
 S/N: 1008206

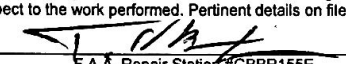
Engine Logbook Insert

Flight: 1355.5
 ETSMOH: 262.5

JACKSON JETCENTER
 FBO | CHARTERS | MAINTENANCE
 3673 Rickenbacker St. Boise, ID 83705

Removed RH magneto and installed a factory new magneto PN 10-500556-101, SN D20FA310. Work completed IAW Continental Motors TSIO-550K M-O standard practices manual. Test run and leak check OK.

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 details on file at this Repair Station under Work Order No. JJC-499.

Signature of Authorized Representative 
 F.A.A. Repair Station #GBBR155E

Date: 04/20/2021

Registration: N513WC
 Make: Continental TSIO-550-K
 S/N: 1008206


Engine Logbook Insert

Flight: 1405.9
 ETSSO: 312.9

JACKSON JETCENTER
 FBO | CHARTERS | MAINTENANCE
 3673 Rickenbacker St. Boise, ID 83705

Drained engine oil and removed oil filter. Opened and inspected filter; no abnormal contamination noted. Installed new oil filter CH48108-1 and serviced engine with Phillips X/C 20W50. Post maintenance 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 details on file at this Repair Station under Work Order No. JJC-492.

Signature of Authorized Representative 
 F.A.A. Repair Station #GBBR155E

N513WC Cirrus SR22T S/N 0519 Flightmeter 1452.2

6/14/2021 Changed oil and inspected and replaced oil filter (no metal noted). Engine serviced with 7 quarts Phillips X/C. Engine run up and leak check good.


 Jeffrey T. Nuttall AP26946341A 133 Municipal Dr. Nampa, ID 83687 W.O. # 10202
 Aero Services, Inc.

N513WC Cirrus SR22T S/N 0519 Flightmeter 1487.1

7/26/2021 Changed oil and inspected and replaced oil filter (no metal noted). Engine serviced with 7 quarts Phillips X/C 20W-50. Engine run-up and leak checked good.


 Jeffrey T. Nuttall AP26946341A 133 Municipal Dr. Nampa, ID 83687 W.O. # 10243
 Aero Services, Inc.

Engine Service and Maintenance Record

Date	Total Time		Time Since Last Overhaul		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

N513WC	Cirrus SR22T	S/N 0519	Flightmeter:1535.1
<p>9/8/2021 Changed oil and inspected and replaced oil filter (no metal noted). Engine serviced with 7.5 quarts Phillips X/C 20W50. Engine run-up and leak check good.</p>			
<p></p> <p>Brian Hansen 3154505 Owner/Operator</p>			

N513WC	Cirrus SR22T	S/N 0519	Flightmeter 1562.8
<p>10/18/2021 Changed oil and inspected and replaced oil filter (no metal noted). Engine serviced with 7 quarts Phillips X/C 20W-50. Engine leak check good.</p>			
<p></p> <p>Jeffrey T. Nuttall AP2694634IA Aero Services, Inc. 133 Municipal Dr. Nampa, ID 83687 W.O. # 10309</p>			

N513WC	Cirrus SR22T	S/N 0519	Flightmeter 1562.8
<p>10/18/2021 Complied with A.D.84-26-02 (Paper Induction Filters), dated 1/29/85, by replacing induction air filter elements (Cirrus P/N 27166-001). Next due at 2062.8 flight meter hours.</p>			
<p></p> <p>Jeffrey T. Nuttall AP2694634IA Aero Services, Inc. 133 Municipal Dr. Nampa, ID 83687 W.O. # 10309</p>			

N513WC	Cirrus SR22T	S/N 0519	Flightmeter 1617.1
<p>12/14/2021 Changed oil and inspected and replaced oil filter (no metal noted). Engine serviced with 7 quarts Phillips X/C 20W-50. Checked magneto timing and found left magneto firing at 19 degrees BTDC and right magneto firing at 15 degrees BTDC. Removed both magnetos and inspected. Replaced right magneto with factory new (P/N 10-500556-101, S/N D21HA342). Disassembled left magneto and inspected. Found contacts pitted with non-perceptible gap. Cleaned distributor gear and interior of distributor and lubricated distributor gear shaft. Reassembled with new contact assembly (CAT P/N 10-382584) and adjusted internal timing. Reinstalled magneto and timed to engine. Replaced all spark plugs with new (Tempest P/N URHB32E). Engine run up and leak checked good.</p>			
<p></p> <p>Jeffrey T. Nuttall AP2694634IA Aero Services, Inc. 133 Municipal Dr. Nampa, ID 83687 W.O. # 10340</p>			

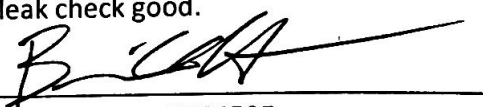
N513WC	Cirrus SR22T	S/N 0519	Flightmeter:1594.3
<p>11/27/2021 Changed oil and inspected and replaced oil filter (no metal noted). Engine serviced with 7 quarts Phillips X/C 20W50. Engine run-up and leak check good.</p>			
<p></p> <p>Brian Hansen 3154505 Owner/Operator</p>			

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 →

N513WC Cirrus SR22T S/N 0519 Flightmeter:1655.0

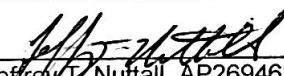
02/15/2022 Changed oil and inspected and replaced oil filter (no metal noted). Engine serviced with 7 quarts Phillips X/C 20W50. Engine run-up and leak check good.



Brian Hansen 3154505
Owner/Operator

N513WC Cirrus SR22T S/N 0519 Flightmeter 1670.8

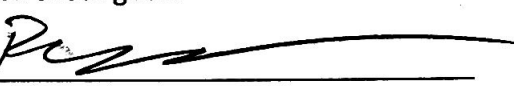
3/15/2022 100 Hour Inspection completed. Changed oil and inspected and replaced oil filter (no metal noted). Checked engine compression (#1-72, #2-73, #3-72, #4-70, #5-73, #6-69/ all over 80 p.s.i.). Master orifice minimum acceptable limit as per CAT M-0, Rev. 1 is 42/80. Engine serviced with 7 quarts of Phillips X/C 20W-50. Magneto timing checked good. Cleaned, gapped and tested spark plugs. Tightened #2 alternator belt. Installed reinforced silicone fiberglass seals on turbo compressor inlets as needed. Reformed both air filter housing flanges to fit properly on the new turbo inlet seals. Adjusted engine driven fuel pump aneroid out 1/2 turn to increase full power fuel flow. Engine run-up checked good. "I certify this engine has been inspected in accordance with a 100 Hour Inspection and has been determined to be in airworthy condition". Engine time since major overhaul is 577.8 hours.



Jeffrey T. Nuttall AP2694634IA 133 Municipal Dr. Nampa, ID 83687 W.O. # 10387

N513WC Cirrus SR22T S/N 0519 Flightmeter:1706.4

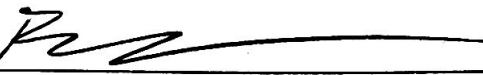
04/25/2022 Changed oil and inspected and replaced oil filter (no metal noted). Engine serviced with 7 quarts Phillips X/C 20W50. Engine run-up and leak check good.



Brian Hansen 3154505
Owner/Operator

N513WC Cirrus SR22T S/N 0519 Flightmeter:1736.2

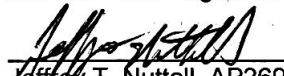
05/24/2022 Drained oil and replaced with 7 quarts Phillips X/C 20W50. Engine run-up and leak check good.



Brian Hansen 3154505
Owner/Operator

N513WC Cirrus SR22T S/N 0519 Flightmeter 1757.5

6/8/2022 Changed oil and inspected and replaced oil filter (no metal noted). Engine serviced with 7 quarts Phillips X/C 20W-50. Engine leak checked good.



Jeffrey T. Nuttall AP2694634IA 133 Municipal Dr. Nampa, ID 83687 W.O. # 10436

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 forward →

N513WC ^{14-BCH} Cirrus SR22T S/N 0519 Flightmeter: 1783.2

07/14/2022 Drained oil and replaced with 7 quarts Phillips X/C 20W50.

[Signature]
 Brian Hansen 3154505
 Owner/Operator

N513WC Cirrus SR22T S/N 0519 Flightmeter: 1808.7

08/04/2022 Changed oil and inspected and replaced oil filter (no metal noted). Engine serviced with 7 quarts Phillips X/C 20W50. Engine run-up and leak check good.

[Signature]
 Brian Hansen 3154505
 Owner/Operator

Q MULUS AVIATION		MAINTENANCE ENTRY		Form QAS-103	Date: 8/31/2022
Aircraft Tail#: N513WC		Aircraft SN#: 519		WO#: N513WC08302022(314)	
Engine Model: TSIO-550-K		Engine SN#: 1008206		Propeller Model: N/A Propeller SN#: N/A	
Aircraft Engine Time:	1837.9	Aircraft Hobbs:	2238.0		
Engine Total Time:	N/A	Engine Total Cycles:	N/A		
Propeller Total Time:	N/A	Propeller Total Cycles:	N/A		
Part Nomenclature	Removed Part#	Removed Part SN#	Part Nomenclature	Installed Part#	Installed SN#
Remarks: PERFORMED OIL CHANGE. COLLECTED OIL SAMPLE AND SENT TO AOA FOR ANALYSIS. REMOVED OLD OIL FILTER CUT AND INSPECTED FOR METAL CONTAMINATION. NO DEFECTS NOTED AT THIS TIME. INSTALLED NEW OIL FILTER P/N AA48108-2. SERVICED ENGINE WITH 7 QTS OF PHILLIPS 20W-50XC ENGINE OIL. POST MAINTENANCE LEAK CHECKS GOOD. REFERENCE AIRPLANE MAINTENANCE MANUAL FOR THE CIRRUS SR22 AND SR22T AIRCRAFT SERIALS 22-002 THRU 22-4434 SERIALS 22T-0001 THRU 22T-1459, 22T 1461 THRU 22T-1470, 22T-1472. CIRRUS DESIGN INCORPORATED. THIS AIRCRAFT IS RETURNED TO SERVICE FOR THE WORK COMPLETED. END					
Technician: DAVID WESENBERG		Technician Signature: <i>[Signature]</i>		CERT#: 4359898 A&P	
Inspector: CONNOR STORY		Inspector Signature: <i>[Signature]</i>		CERT#: 3905315 A&P IA	

Q MULUS		MAINTENANCE ENTRY		Form QAS-103	Date: 9/23/2022
Aircraft Tail # N513WC		Aircraft SN#: 519		WO#: N513WC09292022(337)	
Engine Model: N/A		Engine SN#: N/A		Propeller Model: N/A Propeller SN#: N/A	
Aircraft Flight Time:	1870.8	Aircraft Hobbs Time:	2275.9		
Engine Total time:	N/A	Engine Total Cycles:	N/A		
Propeller Total Time:	N/A	Propeller Total Cycles:	N/A		
Part Nomenclature	Removed Part#	Removed Part SN#	Part Nomenclature	Installed Part#	Installed SN#
OIL FILTER	AA48108-2	N/A	OIL FILTER	AA48108-2	N/A
			OIL	PHILLIPS 20W-50XC	N/A
Remarks: PERFORMED OIL CHANGE. COLLECTED OIL SAMPLE AND SENT TO AOA FOR ANALYSIS. REMOVED OLD OIL FILTER CUT AND INSPECTED FOR METAL CONTAMINATION. NO DEFECTS NOTED AT THIS TIME. INSTALLED NEW OIL FILTER P/N AA48108-2. SERVICED ENGINE WITH 7 QTS OF PHILLIPS 20W-50XC ENGINE OIL. POST MAINTENANCE LEAK CHECKS GOOD. NEXT DUE FLIGHT TIME 1920.8. REFERENCE AIRPLANE MAINTENANCE MANUAL FOR THE CIRRUS SR22 AND SR22T AIRCRAFT SERIALS 22-002 THRU 22-4434. THIS AIRCRAFT IS RETURNED TO SERVICE FOR THE WORK COMPLETED. END					
Technician: DAVID WESENBERG		Technician Signature: <i>[Signature]</i>		CERT#: 4359898 A&P	
Inspector: CONNOR STORY		Inspector Signature: <i>[Signature]</i>		CERT#: 3905315 A&P	

QAS 1 MS



MAINTENANCE ENTRY

Form QAS-103

Date: 3/6/2023

Aircraft Tail # N513WC

Aircraft SN#: 519

WO#: N513WC03032023(436)

Engine Model: TSIO-550-K

Engine SN#: 1008206

Propeller Model: N/A

Propeller SN#: N/A

Aircraft Flight Time: 1971.0

Aircraft Hobbs Time: 2394.9

Engine Total Time: N/A

Engine Total Cycles: N/A

Propeller Total Time: N/A

Propeller Total Cycles: N/A

Part Nomenclature	Removed Part#	Removed Part SN#	Part Nomenclature	Installed Part#	Installed SN#

Remarks: PERFORMED OIL CHANGE. COLLECTED OIL SAMPLE AND SENT TO AOA FOR ANALYSIS. REMOVED OLD OIL FILTER CUT AND INSPECTED FOR METAL CONTAMINATION. NO DEFECTS NOTED AT THIS TIME. INSTALLED NEW OIL FILTER P/N AA48108-2. SERVICED ENGINE WITH 7 QTS OF PHILLIPS 20W-50XC ENGINE OIL. POST MAINTENANCE LEAK CHECKS GOOD. NEXT DUE FLIGHT TIME 2021.0. LUBRICATED WASTEGATE CONTROLLER AND WASTEGATE SHAFT. COMPLETED VISUAL INSPECTION OF BOTH LEFT AND RIGHT TURBO FOR DEFECTS. ADJUSTED MANIFOLD PRESSURE TO 36.5 INHG AND FUEL FLOW TO 40.03 GPH AT FULL THROTTLE. REFERENCE AIRPLANE MAINTENANCE MANUAL FOR THE CIRRUS SR22 AND SR22T AIRCRAFT SERIALS 22-002 THRU 22-4434. THIS AIRCRAFT IS RETURNED TO SERVICE FOR THE WORK COMPLETED.-----END

Technician: CONNOR STORY

Technician Signature: 

QAS I MXS

CERT#: 3905315 A&P

Inspector: CONNOR STORY

Inspector Signature: 

QAS I MXS

CERT#: 3905315 A&P



MAINTENANCE ENTRY

Form QAS-103

Date: 4/19/2023

Aircraft Tail # N513WC

Aircraft SN#: 0519

WO#: N513WC03282023(446) ENG

Engine Model: TSIO-550-K(1)

Engine SN#: 1008206

Propeller Model: PHC-J3Y1F-1N

Propeller SN#: NJ714B

Aircraft Flight Time/AF TT: 1992.5

Aircraft Hobbs Time: 2420.2

Engine Total time: 1992.5

Engine TSMO: 899.5

Propeller Total Time: 1992.5

Propeller TSMO: N/A

Part Nomenclature	Removed Part#	Removed Part SN#	Part Nomenclature	Installed Part#	Installed SN#

Remarks: PERFORMED AND COMPLETED ANNUAL/100HR INSPECTION OF THIS ENGINE. REFERENCE AIRPLANE MAINTENANCE MANUAL FOR THE CIRRUS SR22 AND SR22T AIRCRAFT SERIALS 22-0002 THRU 22-4434, SERIALS 22T-0001 THRU 22T-1459, 22T-1461 THRU 22T-1470, 22T-1472 MAINTENANCE PRACTICES REV 01 JAN 2012. CHECKLIST. AND CONTINENTAL MOTORS STANDARD PRACTICE MAINTENANCE MANUAL M-0 REVISION 1 CHANGE 2 DATED AUG 2021. AD COMPLIANCE AS OF BI-WEEKLY 2023-08. NO AD'S NEED COMPLIED WITH AT THIS TIME. COMPRESSION CHECK HOT RESULTS AS FOLLOWS. CYL #1 70/80 CYL#2 76/80 CYL#3 70/80 CYL #4 74/80 CYL #5 72/80 CYL #6 72/80 MO = 44. REFERENCE AC43-13-1B CHANGE 1 SECTION 8-14. COMPLETED CYLINDER BORESCOPE INSPECTION OF ALL CYLINDERS. NO DEFECTS NOTED AT THIS TIME. PERFORMED OIL CHANGE. COLLECTED OIL SAMPLE AND SENT TO AOA FOR ANALYSIS. REMOVED OLD OIL FILTER CUT AND INSPECTED FOR METAL CONTAMINATION. NO DEFECTS NOTED AT THIS TIME. INSTALLED NEW OIL FILTER P/N AA48108-2. SERVICED ENGINE WITH 7 QTS OF PHILLIPS 20W-50XC ENGINE OIL. REFERENCE AIRPLANE MAINTENANCE MANUAL FOR THE CIRRUS SR22 AND SR22T AIRCRAFT SERIALS 22-002 THRU 22-4434. I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH CURRENT FAA REGULATION AS IS DETERMINED TO BE IN AN AIRWORTHY CONDITION. —END

Technician: ANDERSON ROZO

Technician Signature:

CERT#:

Inspector: CONNOR STORY

Inspector Signature:

CERT#: 3905315 A&P IA

Aircraft Tail # N513WC Aircraft SN#: 0519 WO#: N513WC04042023(448)NR
 Engine Model: TSIO-550-K(1) Engine SN#: 1008206 Propeller Model: PHC-J3Y1F-1N Propeller SN#: NJ714B

Aircraft Flight Time/AF TT: 1992.5 Aircraft Hobbs Time: 2420.2
 Engine Total time: 1992.5 Engine TSMO: 899.5
 Propeller Total Time: 1992.5 Propeller TSMO: N/A

Part Nomenclature	Removed Part#	Removed Part SN#	Part Nomenclature	Installed Part#	Installed SN#

Remarks: INSTALLED NEW LEFT TURBOCHARGER TRANSITION ASSY P/N 658681 WITH NEW EXHAUST GASKETS P/N 652458 AND NUTS P/N MS20500-428. INSTALLED NEW LEFT SIDE TAIL PIPE P/N 657636. INSTALLED NEW CYLINDER #2 EXHAUST RISER P/N 657652. INSTALLED NEW LEFT SIDE TRANSITION ASSEMBLY P/N 657630. REMOVED WASTEGATE VALVE P/N 657121-4 S/N H-PAN00195. INSTALLED NEW WASTEGATE VALVE P/N 657121-4 S/N H-ZHN00039. POST INSTALLATION LEAK/OPERATIONAL CHECKS GOOD. INSTALLED NEW ALTERNATOR BELT P/N : 657970. REMOVED OLD INDUCTION AIR FILTERS RH AND LH. INSTALLED NEW INDUCTION AIR FILTERS RH AND LH P/N: 27166-001. REMOVED OLD SPARK PLUGS AND INSTALLED NEW SPARK PLUGS P/N: URHB32E (QTY 12). INSTALLED NEW BRAKE CALIPER SHIMS P/N 068-01100. REMOVED OLD LININGS AND INSTALLED NEW LININGS P/N: 066-0622 RIGHT SIDE. INSTALLED NEW STATIC WICK P/N 16606. REMOVED OLD ENGINE STARTER O-RING AND INSTALLED NEW ENGINE STARTER O-RING P/N: AS3578-038. REMOVED OLD GASKET-ACCESSORY DRIVE AND OLD SEAL OF AIR-CONDITIONER COMPRESSOR. INSTALLED NEW GASKET-ACCESSORY DRIVE P/N: 653487 AND NEW SEAL P/N: 25102 OF AIR-CONDITIONER COMPRESSOR. INSTALLED NEW BEARING CONE P/N 214-00400 AND NEW BEARING CUP P/N : 214-00300. ALL WORK WAS DONE IN REFERENCE TO AIRPLANE MAINTENANCE MANUAL FOR THE CIRRUS SR22 AND SR22T AIRCRAFT SERIALS 22-002 THRU 22-4434 P/N 13773-001. CONTINENTAL M-0 AND COMPONENT MAINTENANCE MANUAL FOR EXTERNAL DESIGN WHEELS AND BRAKES AWBCMM0001-28 ISSUE 28 DATED APRIL 8 2022. THIS AIRCRAFT IS RETURNED TO SERVICE FOR THE WORK COMPLETED.

Technician: ANDERSON ROZO

Technician Signature: 

CERT#:

Inspector: CONNOR STORY

Inspector Signature: 

QAS 1 MXS

CERT#: 3905315 A&P IA



MAINTENANCE ENTRY

Form QAS-103

Date: 6/8/2023

Aircraft Tail # N513WC

Aircraft SN#: 519

WO#: N/A

Engine Model: TSIO-550-K

Engine SN#: 1008206

Propeller Model: N/A

Propeller SN#: N/A

Aircraft Flight Time: 2012.8

Aircraft Hobbs Time: 2444.9

Engine Total Time: N/A

Engine Total Cycles: N/A

Propeller Total Time: N/A

Propeller Total Cycles: N/A

Part Nomenclature	Removed Part#	Removed Part SN#	Part Nomenclature	Installed Part#	Installed SN#


Remarks: INSPECTED AIRCRAFT ENGINE AND PORPELLER FOR DEFECTS. DETERMINED TO BE IN AIRWORTHY CONIDITION FOR FERRY FLIGHT. _____END

Technician: CONNOR STORY

Technician Signature: 

CERT#: 3905315 A&P

Inspector: CONNOR STORY

Inspector Signature: 

CERT#: 3905315 A&P

ARAPAHOE AERO

12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386

N513WC

Continental

TSIO-550-K(1)

S/N: 1008206

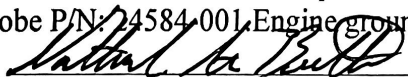
Engine Log Entry

09 August 2023

Flight Hobbs: 2019.2

Hobbs Meter: 2452.0

Changed engine oil and filter using (*Phillips X/C 20W50*). Cut oil filter open and inspected, no contaminants noted. Oil sample taken and submitted. Adjusted fuel flow as needed. Installed new #4 CHT probe P/N: 24584-001. Engine ground run-up and leak check satisfactory.



Nathaniel Alan Beuthel A&P 3659835

w/o 44058



MAINTENANCE ENTRY

Form QAS-103

Date: 10/20/2023

Aircraft Tail # N513WC		Aircraft SN#: 519		WO#: N513WC102023101047	
Engine Model: N/A		Engine SN#: N/A		Propeller Model: N/A	
Aircraft Flight Time: 2052.6		Aircraft Hobbs Time: 2491.2		Propeller SN#: N/A	
Engine Total Time: N/A		Engine Total Cycles: N/A		Propeller Total Cycles: N/A	
Propeller Total Time: N/A		Propeller Total Cycles: N/A			
Part Nomenclature	Removed Part#	Removed Part SN#	Part Nomenclature	Installed Part#	Installed SN#
			Oil	Phillips 20W-50XC	N/A
			Oil Filter	AA48108-2	N/A
Remarks: PERFORMED OIL CHANGE. COLLECTED OIL SAMPLE AND SENT TO AOA FOR ANALYSIS. REMOVED OLD OIL FILTER CUT AND INSPECTED FOR METAL CONTAMINATION. NO DEFECTS NOTED AT THIS TIME. INSTALLED NEW OIL FILTER P/N AA48108-2. SERVICED ENGINE WITH 7 QTS OF PHILLIPS 20W-50XC ENGINE OIL. POST MAINTENANCE LEAK CHECKS GOOD. NEXT DUE FLIGHT TIME 2102.6. SERVICED NOSE TIRE TO 35 PSI AND MLG TO 65 PSI. REFERENCE AIRPLANE MAINTENANCE MANUAL FOR THE CIRRUS SR22 AND SR22T AIRCRAFT SERIALS 22-002 THRU 22-4434. OXYGEN SERVICED TO 1850 PSI. REFERENCE PRECISE FLIGHT INSTRUCTIONS FOR CONTINUED AIRWORTHINESS CIRRUS SR22/SR22T BUILT-IN OXYGEN SYSTEM STC NUMBER SA 01708SE DOCUMENT NUMBER 102NMAN0003 REVISION G. This aircraft is returned to service for the work completed.-----END.					
Technician: Connor Story		Technician Signature:		CERT#:	
Inspector: Connor Story		Inspector Signature:		CERT#: 3905315 A&P	

N513WC Cirrus SR22T S/N 0519
Flightmeter: 2084.3

03/15/2024 Drained oil and replaced with 7 quarts Phillips X/C 20W50.

Brian Hansen 3154505
Owner/Operator



MAINTENANCE ENTRY

Form QAS-103

Date: 5/20/2024

Aircraft Tail # N513WC		Aircraft SN#: 0519		WO#: N513WC04182024(01153)	
Engine Model: TSIO-550-K(1)		Engine SN#: 1008206		Propeller Model: PHC-J3Y1F-1N	
Propeller SN#: NJ714B		Aircraft Hobbs Time: 2547.7		Engine TSMO: 1008.2	
Aircraft Total Time: 2101.2		Engine Total Time: 2101.2		Propeller TSMO: 0	
Propeller Total Time: 2101.2		Propeller Total Cycles: 0			
Part Nomenclature	Removed Part#	Removed Part SN#	Part Nomenclature	Installed Part#	Installed SN#
Remarks: PERFORMED AND COMPLETED ANNUAL/100HR INSPECTION OF THIS ENGINE. REFERENCE AIRPLANE MAINTENANCE MANUAL FOR THE CIRRUS SR22 AND SR22T AIRCRAFT SERIALS 22-0002 THRU 22-4434, SERIALS 22T-0001 THRU 22T-1459, 22T-1461 THRU 22T-1470, 22T-1472 MAINTENANCE PRACTICES REV 01 JAN 2012. CHECKLIST. AND CONTINENTAL MOTORS STANDARD PRACTICE MAINTENANCE MANUAL M-0 REVISION 1 CHANGE 2 DATED AUG 2021. AD COMPLIANCE AS OF 2012. BI-WEEKLY 2024-10. Complied with AD 23-09-09 FAILURES OF SPOT-WELDED, MULTI-SEGMENT V-BAND COUPLINGS visual inspection paragraphs (k)(1) through (7). No defects noted at this time. COMPRESSION CHECK HOT RESULTS AS FOLLOWS. Cyl #1 72/80 Cyl #2 72/80 Cyl #3 78/80 Cyl #4 70/80 Cyl #5 72/80 Cyl #6 64/80. MASTER ORIFICE 46/80. REFERENCE AC 43-13-1B CHANGE 1 SECTION 8-14. COMPLETED CYLINDER BORESCOPE INSPECTION OF ALL CYLINDERS. NO DEFECTS NOTED AT THIS TIME. PERFORMED OIL CHANGE. COLLECTED OIL SAMPLE AND SENT TO AOA FOR ANALYSIS. REMOVED OLD OIL FILTER CUT AND INSPECTED FOR METAL CONTAMINATION. NO DEFECTS NOTED AT THIS TIME. INSTALLED NEW OIL FILTER P/N AA48108-2. SERVICED ENGINE WITH 7 QTS OF PHILLIPS 20W-50XC ENGINE OIL. Post maintenance operational and leak checks good. REFERENCE AIRPLANE MAINTENANCE MANUAL FOR THE CIRRUS SR22 AND SR22T AIRCRAFT SERIALS 22-002 THRU 22-4434. I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH CURRENT FAA REGULATION AS IS DETERMINED TO BE IN AN AIRWORTHY CONDITION.-----END					
Technician: Anderson Rozo		Technician Signature:		CERT#:	
Inspector: David Wesenberg		Inspector Signature:		CERT#: 4359898 A&P IA	