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PLATINUM ENGINE LOG BOOK



CONTINENTAL MOTORS

**USE ONLY FUEL CONFORMING TO ASTM D910
USE OF AUTOMOTIVE GAS IS NOT APPROVED.**



Teledyne Continental Motors, Inc.

A Teledyne Technologies Company

Printed: 08/14/2003

This engine model I0550N27, Serial No. 913910 was manufactured on 08/14/2003 by Teledyne 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 Teledyne Continental Motors Service Bulletins.

TELEDYNE CONTINENTAL MOTORS

A TELEDYNE TECHNOLOGIES COMPANY

PRODUCTION CERTIFICATE NO. 508

Date: 8/03/2016; Aircraft: N8146L; Type: CIRRUS SR22; S/N: 0680; Hobbs: 1597.6; Total Time: 1597.6; Engine - Type: IO-550-N27 Turbo STC, S/N: 913910, Time: 1597.6; Prop - Type: PHC-J3YF-1N, S/N: FP7287B, Time: 746.4
 Engine Work

Completed an Annual inspection in accordance with FAR 43, Appendix D. Completed inspection for continued airworthiness Tornado Alley Turbo, no defects noted. Complied with TAT - SB12-02 Fuel pump leak inspection, no defects noted. Compression test as follows: #1) 72/80, #2) 58/80, #3) 72/80, #4) 64/80, #5) 68/80, #6) 64/80. Master Orifice: 42/80. Changed oil and filter (CH48109-1), took sample, cut filter, no metal noted. Serviced engine with 8 qts Phillips X/C 20W50 oil. Checked magneto to engine timing. Checked engine control travels and lubricated. Cleaned, gapped and tested spark plugs. Replaced #2 cylinder, bottom spark plug p/n URHB32E with new. Ground run operational and leak checks normal. All work performed in accordance with approved/current technical data.

I certify that this Engine has been inspected in accordance with an Annual inspection and was determined to be in airworthy condition.

Chris Shaffer
 AP3218524IA

Chris Shaffer

 Wisconsin Aviation - Madison
 3606 Corben Court
 Madison, WI 53704
 608-268-5003



Wisconsin Aviation - Watertown
 1741 River Drive
 Watertown, WI 53094
 920-261-4567

nce Record
 Special Inspections,

Engine Log
 Make CIRRUS
 Engine Make TCM

Aircraft N8146L
 Model SR22
 Engine Model IO550-N27

Date June 1 2017
 S/N 0680
 Engine S/N 913910

HOBBS 1639.0

Engine TT 1639.0

Performed Annual Inspection IAW FAR Part 43 Appendix D using Cirrus SR22 AMM as a guide.

Cleaned and rotated spark plugs. Performed compression check. Results are as follows:

#1 68/80 #2 74/80 #3 71/80 #4 70/80 #5 75/80 #6 71/80 M/O 42/80

Borescoped all cylinders. No abnormalities noted.

Replaced induction air filter P/N 33-2022. Replaced/tightened exhaust heat shield clamps as needed due to cracking or frozen screws.

Replaced crankcase oil vent hose. Secured #6 cylinder heater band clamp. Drained Oil.

Removed, opened, and inspected oil filter element and found no abnormalities.

Installed new oil filter P/N AA48108-02. Serviced engine with 7qts Phillips X/C 20w 50 and cam guard. 1qt of oil supplied with aircraft.

Replaced worn turbo slave waste gate clevis pins. Turbo V band clamp replacement due @ 1687.0 Hrs.

Ground run engine satisfactory, no leaks found. Adjusted fuel Flow.

Verified all AD's have been complied with thru June 1 2017.

Attached AD compliance record to aircraft logs.

END

I certify that this aircraft and/or component identified above was inspected and repaired IAW current FAA regulations and determined Airworthy for return to service.

Phillip Scadden IA 400062798 *Phillip Scadden*

Engine Log
 Make CIRRUS
 Engine Make TCM

Aircraft N8164L
 Model SR22
 Engine Model IO550-N27

Date June 1 2017
 S/N 0680
 Engine S/N 913910

HOBBS 1642.2

Engine TT 1642.2

Replaced left and right turbo V band clamps with new.

Next due at 2142.2 Hrs

END

I certify that all work described above has been performed IAW Cirrus SR22T AMM, and current FAA regulations

Brad Helman A&P 3939968 *Brad Helman*

ARAPAHOE AERO

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

N8146L Continental IO-550-N27 S/N: 913910 Engine Log Entry

11 August 2017 Hobbs Meter: 1678.7

Changed engine oil and filter (Phil X/C 20W50). Cut oil filter open and inspected, no ferrous contaminants noted. Installed new gasket on oil cap. Operational and leak check satisfactory.

L. John Wells

L. John Wells A&P 3221132

w/o 38257

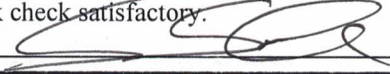
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12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386

N8146L Continental IO-550-N27 S/N: 913910 Engine Log Entry**17 November 2017 Hobbs Meter: 1719.5**

Changed engine oil and filter (Phil X/C 20W50). Cut oil filter open and inspected, no ferrous contaminates noted. Tightened left tail pipe breather hose clamp. Cleaned #2 CHT connector as needed. Operational and leak check satisfactory.

Brough


 Scott S. Fisher A&P 3290363

w/o 38532

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ions,**ARAPAHOE AERO**

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

N8146L Continental IO-550-N27 S/N: 913910 Engine Log Entry**31 January 2018 Hobbs Meter: 1759.6**

Changed engine oil and filter (Phil X/C 20W50). Cut oil filter open and inspected, no contaminates noted. Tightened heat shields as needed. Complied with TATI SI08-01 (Crankcase Breather Discharge Tube) by cleaning crankcase breather discharge tube of coking deposits per Service Instruction. **Next inspection due at Flight Hobbs: 1809.6 or next oil change.** Complied with TATI SB09-01 (Exhaust Manifold Cracks) by inspecting exhaust manifolds for cracks around turbo mount flanges per Service Bulletin, no defects noted. **Next inspection due at Flight Hobbs: 1809.6 or next oil change.** Complied with TATI SB12-02 (Fuel Pump O-ring Seals) by moving mixture control while operating pump on high and inspecting pump mixture control shaft for fuel leakage per Service Bulletin, no leakage noted. **Next inspection due at Flight Hobbs: 1809.6 or next oil change.** Post inspection engine ground run-up, operational check and leak check good.


 Jason Daniel Schaaf A&P 3551738

w/o 38745

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

N8146L Continental IO-550-N27 S/N: 913910 Engine Log Entry**01 May 2018 Hobbs Meter: 1796.9**

Changed engine oil and filter (Phil X/C 20W50). Cut oil filter open and inspected, no contaminates noted. Ground run up and leak check satisfactory.


 Jason Daniel Schaaf A&P 3551738

w/o 38961

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

N8146L Continental IO-550-N27 S/N: 913910 Total Time: 1809.0**25 July 2018 Hobbs Meter: 1809.0**

100 Hour Inspection for Annual completed this date using the Cirrus Design SR22 Maintenance Manual Inspection Form and the Tornado Alley Turbo, Inc, Scheduled Maintenance Check List as a guide. Compression test: #1) 66/80, #2) 71/80, #3) 66/80, #4) 67/80, #5) 64/80, #6) 61/80. M.O. 49. Changed engine oil and filter using (Phillips X/C 20W-50). Cut oil filter open and inspected, no contaminates noted. Cleaned, inspected, gapped, tested, and rotated spark plugs. Removed the left and right magneto for **500 hour magneto inspection** Left P/N: 10-500556-101, S/N: 56326 and Right P/N: 10-500556-101, S/N: 56327. Magnetos were disassembled, cleaned, inspected. Installed new points P/N: 10-382584, seals, cotter pins, felts and springs in both magnetos. Replaced capacitor P/N: 10-400615 in left magneto. Reassembled, and timed internally. Reinstalled and retimed left and right magnetos to engine using new gaskets and installation hardware as required. **Next 500 hour magneto inspection due at Hobbs: 2309.0.** Reposition #2 alternator power cable to prevent further chafing on fuel pump. Torqued engine weldment lower bolts. Installed new rivets on right side baffle. Applied red RTV between lower edge of front left baffle and inlet duct to prevent further chafing. Adjusted right wastegate support and secured bracket. Replaced right exhaust aft heat shield clamp. Replaced right wastegate linkage pin and secured cable pin with new cotter pin to linkage. Complied with **500 Tornado Alley Fuel Injection Nozzle Servicing** by removing injectors, inspecting and cleaning, no defects noted. **Next service due Hobbs: 2309.0.** Leak checked fuel system. Inspected and pressure tested exhaust system. Inspected turbochargers and wastegates for condition and security. Inspected and lubricated throttle, mixture and propeller governor controls, operational check good. Complied with TAT SI08-01 (Crankcase Breather Discharge Tube) by cleaning crankcase breather discharge tube of coking deposits per Service Instruction. **Next inspection due at Hobbs: 1859.0 or next oil change.** Complied with TAT SI08-04 (Cabin Heat Augmenter / Tailpipe Cracking) by pressure test of left and right heat exchangers per Service Instruction, no defects noted. **Next inspection due at Hobbs: 1909.0.** Complied with TAT SI08-05 (Induction Air Filter) by inspecting and servicing induction air filter per Service Instruction. **Next induction air filter serving due Flight Hobbs: 1909.0.** Complied with TAT SB09-01 (Exhaust Manifold Cracks) by inspecting exhaust manifolds for cracks around turbo mount flanges per Service Bulletin, no defects noted. **Next compliance due Hobbs: 1859.0 or next oil change.**

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

N8146L Continental IO-550-N27 S/N: 913910 Total Time: 1809.0

25 July 2018 Hobbs Meter: 1809.0 (Page 2 of 2)

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 July 2019.** Complied with **TAT SH11-01 (Exhaust Slip Joint Inspection)** by inspecting exhaust system slip joints per Service Instruction for indications of binding, distortion or damage from excessive temperatures, no defects noted. **Next inspection due July 2019 or V-band clamp replacement.**

Complied with **TAT SH11-03 (Turbocharger Support Inspection)** by inspecting turbocharger and wastegate support rods per Service Instruction. **Next inspection due July 2019 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 July 2019.**

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 Hobbs: 1859.0 or next oil change.**

AD's checked through Biweekly 2018-16. 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.**

[Signature] L. John Wells A&P 3221132 w/o 39186

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ARAPAHOE AERO

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

N8146L Continental IO-550-N27 S/N: 913910 Engine Log Entry

24 January 2019 Hobbs Meter: 1848.7

Changed engine oil and filter (**Phil X/C 20W50**). Cut oil filter open and inspected, no contaminants noted. Installed new #4 EGT probe P/N: 16579-002. Installed new TIT probe, P/N: 86245. Complied with

Tornado Alley Flexible Fluid Hose 10 Year Replacement by installing new 12 new fluid hoses from Aviall Hose Shop, reference Order Number 1004737065, torqued, sealed and secured hoses. **Next flexible hose replacement due January 2029.** Complied with **TAT SI08-01 (Crankcase Breather Discharge Tube)** by cleaning crankcase breather discharge tube of coking deposits per Service Instruction. Installed new breather hose at tail pipe end. **Next inspection due at Hobbs: 1898.7 or next oil change.** Complied with **TAT SB09-01 (Exhaust Manifold Cracks)** by inspecting exhaust manifolds for cracks around turbo mount flanges per Service Bulletin. Bulging of left exhaust manifold noted. Installed new left exhaust manifold P/N: 22-685001 using new gaskets and original hardware. **Next compliance due Hobbs: 1898.7 or next oil change.** 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 Hobbs: 1898.7 or next oil change.** Ground run up and leak check satisfactory.

[Signature] Jason Daniel Schaaf A&P 3551738 w/o 39786