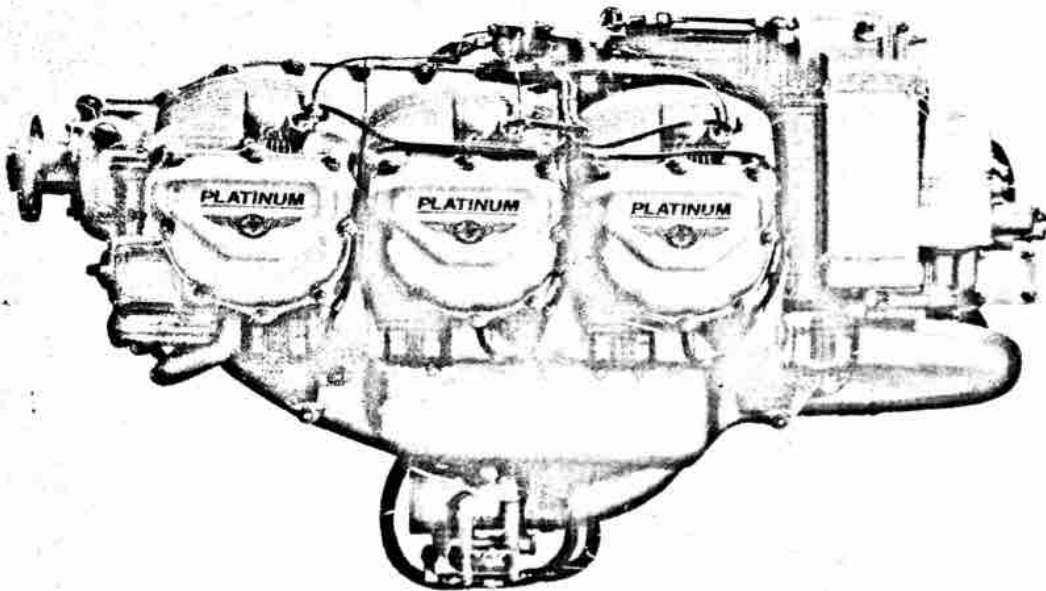


N8146L

LOG # 1 -

# PLATINUM ENGINE LOG BOOK



## CONTINENTAL MOTORS



DATE: 12-30-03  
N# 8146L  
MODEL: SR-22  
S/N: 0680

ENGINE LOG ENTRY  
ACTT: 98.6  
HOBBS: 98.6

ETT: 98.6  
ETSO: snw  
PTT: 98.6  
PTSO: snw

Drained oil, removed oil filter, cut filter open, inspected for metal, no metal was noted. Installed Ch48108 Champion oil filter, serviced with (8) eight quarts Aero Shell 15W50 oil. Post operational run/leak check was performed, no problems were noted.  
Steven Johnson A&P397604650

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

*Steven Johnson*  
  


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

ENGINE LOG ENTRY


DATE: 04-27-04  
N# 8146L  
MODEL: SR-22  
S/N: 0680

ACTT: 157.4  
HOBBS: 157.4

ETT: 157.4  
ETSO: snw  
PTT: 157.4  
PTSO: snw

Drained oil, removed oil filter, cut filter open, inspected for metal, no metal was noted. Installed Ch48108 Champion oil filter, serviced with (8) eight quarts Aero Shell 15W50 oil. Post Operational run/leak check was performed, no problems were noted.  
Travis Schwien AP494948824

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

*Travis Schwien*  
  


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

# Engine Service and Maintenance Record

Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins

| Date | Total Time |      | Time Since Last Overhaul |      |
|------|------------|------|--------------------------|------|
|      | Hrs.       | Min. | Hrs.                     | Min. |

Brought For

**Engine Log**

DATE: 06-30-04  
 N#: 8146L  
 MODEL: IO550N  
 S/N: 913910

ACTT: 198.8  
 TACH: N/A  
 HOBBS: 198.8

ETT: 198.8  
 ETSO: New  
 PTT: 198.8  
 PTSO: New

Drained engine oil, removed, cut open oil filter and inspected for metal. no metal noted. Reinstalled new oil filter P/N CH48108 and serviced engine with 8 qts of Aeroshell 100W Oil. Removed all spark plugs, cleaned, gapped and tested, reinstalled with new crush washers p/n M-674. Removed all fuel injectors, cleaned, inspected and reinstalled with new o-rings p/n MS9021-010, leak checked good. Tested and adjusted fuel settings I/A/W Continental SID-97-3B. All work done I/A/W, Cirrus and Continental Maintenance manuals.

*Steve Johnson A&P 9139108224*

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



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

DATE: 10-12-2004  
 N #: N8146L  
 MODEL: IO550N27  
 S/N: 913910

ACTT: 255.4  
 HOBBS: 255.4

ETT: 255.4  
 ETSO: SNEW  
 PTT: 255.4  
 PTSO: SNEW

Annual inspection completed this date in accordance with Cirrus Design SR22 Maintenance Manual 5-20 Scheduled Maintenance Checks. Drained oil, removed oil filter, inspected filter, no metal found. Obtained oil sample and sent for analysis. Compression check completed as follows: Cyl. No. 1 71/80 No.2 70/80 No.3 71/80 No.4 70/80 No.5 67/80 No.6 71/80. All sparkplugs were removed, cleaned, inspected, gapped, tested, rotated top to bottom and installed with new M-674 Champion gaskets. All fuel injector nozzles were removed, cleaned and installed with new gaskets. Installed CH48108-1 Champion oil filter and serviced with 8 quarts 20W50 Phillips Cross-Country oil. Engine wash was completed and post run/leak check completed, no defects were noted

**"I certify that this engine has been inspected in accordance with a Annual inspection and has been determined to be in airworthy condition."**

*Steve Johnson A&P397604650 LA*

*Steve Johnson*

Wisconsin Aviation - Madison

Date: 3/18/2005, Aircraft: N8146L

\*\*\*\* Engine Log Entry \*\*\*\* ID 337

|                     |               |            |
|---------------------|---------------|------------|
| MAKE: Cirrus Design | ACTT: 309.5   | ETT: 309.5 |
| MODEL: SR-22        | TACH: -N/A-   | ETSO: SNEW |
| SN: 0680            | HOBBS: 309.5  | PTT: 309.5 |
| YEAR: 2003          | OFFSET: - 0 - | PTSO: SNEW |

Drained oil, removed filter, cut filter open, inspected for metal, no metal noted,. Obtained oil sample for analysis.  
Installed CH48108-1 Champion oil filter and serviced with 8 quarts, 20W50 Phillips X-Country oil. Post run / leak check  
completed, no defects were noted.

James Bennett  
A&P 2809547



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



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





# Engine Service and Maintenance Record

Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins

| Date            | Total Time |      | Time Since Last Overhaul |      |
|-----------------|------------|------|--------------------------|------|
|                 | Hrs.       | Min. | Hrs.                     | Min. |
| Brought Forward |            |      |                          |      |

Date: 4/10/2006, Aircraft: N8146L, Type: SR22, S/N: 0680, Hobbs: 522.7, Total Time: 522.7, Engine - Type: Continental IO-550-N27, S/N: 913910, Time: 522.7, Prop Type: Hartzell PHC-J3YC, S/N: FP2524B, Time: 522.7

\*\*\*\* Engine Log Entry \*\*\*\* ID 1561

Drained oil, removed filter, cut filter open, inspected for metal, no metal noted. Obtained oil sample for analysis. Installed CH48108-1 Champion oil filter and serviced with 8 quarts, 20W50 Phillips X-Country oil. Post run / leak check completed, in accordance with Cirrus Design SR22 AMM Chapter 12-20 & 79-20, no defects were noted.

James Bennett  
A&P 2809547

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



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

Date: 7/06/2006; Aircraft: N8146L; Type: SR22; S/N: 0680; Hobbs: 581.70; Total Time: 581.70

\*\*\*\* Engine Log Entry \*\*\*\* Log ID 1865

Drained oil, removed filter, cut filter open, inspected for metal, no metal noted. Obtained oil sample for analysis. Installed CH48108-1 Champion oil filter and serviced with 8 quarts, 20W50 Phillips XC oil. Ground run for ops and leak check good. Work performed in accordance with Cirrus Design SR-22 service manual chapters 12-20 & 79-20.

James Bennett  
A&P 2809547

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10071016

608-268-5003

920-261-4567

Date: 9/27/2006; Aircraft: N8146L; Type: SR22; S/N: 0680; Hobbs: 625.30; Total Time: 625.30; Engine - Type: Continental IO-550-N27, S/N: 913910, Time: 625.30

\*\*\*Engine Log Entry\*\*\* Log ID 2145

Completed an annual inspection in accordance with the Cirrus SR22 service manual inspection form and FAR 43, appendix D. Completed TCM top care 12 month inspection in accordance with TCM SID 97-2B. Drained oil, obtained sample for analysis, and removed filter. Cut filter open and inspected for metal, none found. Installed new CH48108 -1 filter and serviced with 9 qts. Phillips 20W50 X/C mineral oil. Performed compression test: #1) 78/80 #2) 77/80 #3) 78/80 #4) 77/80 #5) 75/80 #6) 78/80. Replaced #3 cylinder with new p/n: 655932A4 s/n: AC06 FC065. Cleaned, gapped, tested spark plugs, rotated top to bottom and installed with new M-674 gaskets. Removed / cleaned fuel injectors and reinstalled with 12ea o-rings p/n: 630979, 6ea washers p/n: 640612, and 6ea washers p/n: X-1473. Removed magnetos p/n: 10-500556-1 left s/n: DO3HA019 right s/n: DO3HA008 and reinstalled following 500 hr inspection by Aircraft Systems Inc., CRS KC2R947K, W.O. 39180. Adjusted magneto to engine timing. Complied with TCM SIL 00-11B by installation of 6ea drain connectors p/n: 655742 and 6ea seals p/n: 633958-2. Ground run for ops and leak check good. Work performed in accordance with Cirrus SR22 and TCM IO-550N service manuals. I certify that this engine has been inspected in accordance with an annual inspection and was found to be in airworthy condition.

Stuart Wright

A&P 397987227 IA

Wisconsin Aviation - Madison



Wisconsin Aviation - Watertown

Date: 5/30/2007; Aircraft: N8146L; Type: SR22; S/N: 0680; Hobbs: 669.30; Total Time: 669.30; Engine - Type: Continental IO-550-N27, S/N: 913910, Time: 669.30, SMOH: 669.30

\*\*\*\* Engine Log Entry \*\*\*\* Log ID 2882

Drained oil, obtained sample for analysis, and removed filter. Cut filter open, found slivers of ferrous material, contacted TCM, (see attached TCM form AV-18 for field service recommendation). Removed all pushrod tubes and inspected lifters per TCM recommendation. Replaced #5 cylinder intake lifter with new p/n: 653888 and #6 cylinder exhaust lifter with new p/n: 653877. Reinstalled all pushrods, pushrod tubes, and rocker covers using new gaskets and seals. Removed starter adapter p/n: IO-550N s/n: 913910 and sent for repair per TCM recommendation. Reinstalled starter adapter following repair by Poplar Grove Airmotive, CRS YYBR664L, W.O. 820, dated 5/17/2007. Reinstalled starter. Installed new CH48108-1 filter and serviced with 8 qts. Aeroshell 15W50 oil. Ground run for ops and leak check good. Work performed in accordance with Cirrus SR22 and TCM IO-550N maintenance manuals.

John Podgorski

AP349766925

*John Podgorski*

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



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



WARRANTY Repair  
MNP7-6022 Reed 5/18/07  
NB146L with #163 BRASS  
DRUM MOIS WHEEL.

# SERVICEABLE

## (COMPONENTS)

STARTER ADAPTER cont  
COMPONENT NAME MFG. NAME  
IO550N 913910  
MODEL or TYPE SERIAL NO.

REPAIRED  O-HAULED  TESTED  INSPECTED

The aircraft component identified above was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service.

Pertinent details of the repair are on file at this repair station under:

OWNER: WIS AVIATION FOUR LAKES

WORK ORDER No. 820 DATE 5-17-07

David Horst  
SIGNED FOR:

**POPLAR GROVE AIRMOTIVE, INC.**  
11619 U. S. ROUTE 76  
POPLAR GROVE, IL 61065

FAA Approved Repair Station #YYBR664L

**MITSIDE SERVICE**

Date: 1/18/2007; Aircraft: N8146L; Type: SR22; S/N: 0680; Total Time: 684.00  
 \*\*\*\*Engine Log Entry\*\*\*\* Log ID 3052

Drained oil and removed filter. Cut filter open and inspected for metal. Found small amount of metal in filter, contacted TCM technical support for recommendation, recommended recheck of filter in 10-15 hours of operation. Installed new CH48108-1 filter and serviced with 8 qts. Phillips 20W50 X/C oil. Ground run for leak check good. Work performed in accordance with approved / current technical data.

Ray Felber  
 AP 3199939 IA

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



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

Date: 10/22/2007; Aircraft: N8146L; Type: SR22; S/N: 0680; Hobbs: 715.80; Total Time: 715.80; Engine - Type: Continental IO-550-N27, S/N: 913910, Time: 715.80, SMOH: 715.80; Prop - Type: Hartzell PHC-J3YC, S/N: FP2524B, Time: 715.80, SMOH: 715.80

\*\*\*\* Engine Log Entry \*\*\*\* Log ID 3405  
 Removed engine for repair.  
 John Podgorski  
 AP349766925

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



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

|                                  |                                     |                              |                              |                          |
|----------------------------------|-------------------------------------|------------------------------|------------------------------|--------------------------|
| DATE:<br><b>February 6, 2008</b> | ENGINE MODEL:<br><b>IO-550-N27B</b> | ENGINE S/N:<br><b>913910</b> | ENGING T.T.:<br><b>715.8</b> | W/O#:<br><b>7507WR43</b> |
|----------------------------------|-------------------------------------|------------------------------|------------------------------|--------------------------|

**TELEDYNE CONTINENTAL MOTORS**  
 FAA REPAIR STATION No. TLYR435X  
 2039 Broad Street - Mobile, AL 36615

This engine has been disassembled, cleaned, inspected IAW TCM's Instructions for Continued Airworthiness, repaired as required and reassembled. Engine assembled in accordance with Teledyne Continental Motors Instructions for Continued Airworthiness using new gaskets, seals, "O" rings, lock tabs, lock plates, new connecting rod bolts, new connecting rod nuts, new connecting rod bearings, new main bearings and thrust washers, new piston pins and hardware as required. Crankcase P/N 656623A14, S/N R05GA374, inspected and overhauled, see 8130-3. Installed new crankshaft gears P/N 657175 and 656991. Complied with TCM service bulletin M 93-4, by installing new crankshaft counterweight blade bushings, counterweight bushings, counterweight pins, retainer plates and snap rings. Crankshaft balanced to manufacturers specifications. Complied with MSB 96-10 by magnetic particle and ultrasonic inspection, no indications noted. Crankshaft P/N 654432, S/N N03GA136, is a VAR forging. Installed new camshaft P/N 654084A1, S/N Z07HA892, with new intake lifters P/N 653888 and exhaust lifters P/N 653877. Complied with TCM SB 05-8 by installing new camshaft gear P/N 656818. Installed new oil cooler and baffle assembly P/N 655677A1, S/N J07-5672-545. Cylinders repaired by TCM Mattituck Services South and reinstalled with new balanced piston set P/N 654857BP, see 8130-3 for cylinder repair details. Installed rebuilt starter adapter P/N 642083A12. Complied with AD 88-03-06 by installation of Champion CH 48108-1 oil filter (TCM P/N 649922). AD's checked thru issue 2008-02 and complied with as required. Complied with AD 93-10-02 by visual inspection, all cylinder valve retainer keys correctly installed. Engine tested in accordance with TCM's standard production acceptance test procedure and accepted. I certify that this engine has been inspected and repaired as indicated above and was determined to be airworthy with respect to the work performed. Details of work performed on file at this repair station. -----END-----

TECHNICIAN: R. Bryant

AUTHORIZATION: *Robert M. Robbins, Jr.* DATE: February 6, 2008

Brought Forward →

Date: 2/25/2008; Aircraft: N8146L; Type: SR22; S/N: 0680; Hobbs: 715.80; Total Time: 715.80; Engine - Type: Continental IO-550-N27, S/N: 913910, Time: 715.80, SMOH: 715.80

\*\*\*\* Engine Log Entry \*\*\*\* Log ID 3408

Installed engine following repair for oil filter contamination by Teledyne Continental Motors, CRS TLYR435X, W.O. 7507WR43, dated 2/6/2008. Original accessories were inspected and reinstalled except as noted in TCM log entry dated 2/6/2008. Serviced engine with 8 qts. Phillips 20W50 mineral oil. Ground run for ops and leak check good, engine fuel system adjusted and tested in accordance with TCM SID 97-3C. Work performed in accordance with approved / current technical data.

John Podgorski  
AP349766925

*John Podgorski*

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



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

Date: 3/03/2008; Aircraft: N8146L; Type: SR22; S/N: 0680; Hobbs: 715.80; Total Time: 715.80; Engine - Type: Continental IO-550-N27, S/N: 913910, Time: 715.80, SMOH: 715.80

\*\*\*Engine Log Entry\*\*\* Log ID 3408

Completed an annual inspection in accordance with Cirrus SR22 maintenance manual inspection form and FAR 43, appendix D. AD 07-04-19 eff. 5/07/07, Superior Air Parts cast cylinders is not applicable due to TCM cylinders installed. AD 07-16-10 eff. 8/23/07, turbocharger compressor rotor is not applicable due to turbocharger not installed. I certify that this engine has been inspected in accordance with an annual inspection and was determined to be in airworthy condition.

Martin McCauley  
A&P 339544666 IA

*Martin McCauley*

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



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

Date: 6/04/2008; Aircraft: N8146L; Type: SR22; S/N: 0680; Total Time: 742.10; Prop - Type: Hartzell PHC-J3YC, S/N: FP2524B

\*\*\*\* Engine Log Entry \*\*\*\* Log ID

Drained oil. Checked Filter; no metal found. Serviced with 8 quarts Phillips X/C 20W-50 oil. Installed new Champion CH48108-1 oil filter. Removed and ultrasonic cleaned #5 fuel injector and reinstalled. All work performed IAW current technical instructions. Ground run and leak checked engine; checked good. All other engine indications normal.

Clifford Sugden  
A&P2659994

*Clifford Sugden*

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



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920-261-4567

## Engine Service and Maintenance Record

Installations, Inspections, Airworthiness Directives, Special Inspections,  
Modifications and Service Bulletins

| Date            | Total Time |      | Time Since Last Overhaul |      |
|-----------------|------------|------|--------------------------|------|
|                 | Hrs.       | Min. | Hrs.                     | Min. |
| Brought Forward | →          |      |                          |      |

Date: 3/27/2008; Aircraft: N8146L; Type: SR22; S/N: 0680; Hobbs: 731.30; Total Time: 731.30  
 \*\*\*\* Engine Log Entry \*\*\*\* Log ID 3865

Removed, cleaned, and reinstalled #5 cylinder fuel injector nozzle. Replaced #5 cylinder intake gaskets p/n: 649950 with new. Replaced all fuel injector o-rings p/n: 630979-9 with new. Removed, cleaned, and reinstalled flow divider. Drained and cleaned fuel lines from flow divider to injectors. Drained and cleaned fuel inlet from engine driven pump. Removed, cleaned, and reinstalled gascolator screen. Removed snaffle drain lines from cylinders and replaced seals p/n: 633938-2 (6ea) with new. Ground run for ops and leak check good, adjusted idle rpm and mixture. Work performed in accordance with approved / current technical data.

John Podgorski  
 AP349766925 *John Podgorski*

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



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

Date: 8/21/2008; Aircraft: N8146L; Type: SR22; S/N: 0680; Hobbs: 776.30; Total Time: 776.30; Engine - Type: Continental IO-550-N27, S/N: 913910

\*\*\*\*Engine Log Entry\*\*\*\* Log ID 4370  
 Drained oil and removed filter. Cut filter open and inspected for metal, none found. Installed new CH48110-1 filter and serviced with 8 qts. Aeroshell 15W50 oil. Ground run for leak check good. All work accomplished in accordance with current technical instructions.

Tom Cutshall  
 AP 3239901 *Tom Cutshall*

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



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 1741 River Drive  
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Madison, WI 53704  
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1741 River Drive  
Watertown, WI 53094  
920-261-4567

TORNADO ALLEY TURBO INC.  
300 AIRPORT RD  
ADA, OK 74820

ENGINE LOG BOOK ENTRY

TORNADO ALLEY TURBO, INC.



N8146L CIRRUS SR22-G1 SN: 0680 ACFT HOBBS: 854.2 FLIGHT: 854.2  
TCM IO-550-N SN: 913910 ENG TT: 854.2 ENG TSMOH: N/A  
29 MAR 2009

INSTALLATION OF CIRRUS TURBO NORMALIZING SYSTEM KIT SERIAL NUMBER 3275, COVERED UNDER STC SA10588SC AND STC SE10589SC, IN ACCORDANCE WITH INSTALLATION INSTRUCTIONS REPORT 22-6460001 DATED 10 OCT 2008 AND MASTER DRAWING LIST ETI-G2-1 REV G. SEE FLIGHT MANUAL SUPPLEMENT FOR OPERATION AND CONTINUED AIRWORTHINESS.

INSTALLED NEW TURBO PART NUMBER 466304-3 SERIAL NUMBER KKL00088 ON THE RIGHT SIDE.

INSTALLED NEW TURBO PART NUMBER 466304-3 SERIAL NUMBER KKL00110 ON THE LEFT SIDE.

INSTALLED NEW WASTEGATE VALVE PART NUMBER 477233-0003 SERIAL NUMBER IJK57-0003 ON THE RIGHT SIDE. INSTALLED NEW WASTEGATE ASSEMBLY PART NUMBER 470842-0004 SERIAL NUMBER KHN00295 ON THE LEFT SIDE.

INSTALLED NEW MANIFOLD PRESSURE CONTROLLER PART NUMBER 470688-5 SERIAL NUMBER KLN00221.

INSTALLED NEW PRESSURE RELIEF VALVE PART NUMBER 470944-17 SERIAL NUMBER KGN00317.

INSTALLED NEW STARTER DRIVE ADAPTER PART NUMBER 642085-A17 SERIAL NUMBER S165908-1.

INSTALLED NEW PRESSURIZED MAGNETOS PART NUMBER 10-500556-101 SERIAL NUMBER D08IA109 LEFT AND PART NUMBER 10-500556-101 SERIAL NUMBER D06KA237 RIGHT. SET TIMING TO 22.0 DEGREES BTC.

INSTALLED NEW TURBO NORMALIZED FUEL PUMP PART NUMBER ETI-SR22-2-12 SERIAL NUMBER GP5202.

DRAINED ENGINE OIL AND RETAINED A SAMPLE FOR ANALYSIS. REMOVED OIL FILTER AND EXAMINED ELEMENT FOR CONTAMINATES. SERVICED ENGINE WITH 8 QUARTS OF AEROSHELL 15W50 OIL AND INSTALLED NEW CHAMPION OIL FILTER CH48108-1.

INSTALLED 12 NEW CHAMPION SPARK PLUGS RHB32E.

INSTALLATION OF CIRRUS TURBO GAMI FUEL INJECTOR KIT NUMBER TIGT550-19B SERIAL NUMBER 17308, COVERED UNDER STC SA10588SC AND STC SE10589SC, IN ACCORDANCE WITH INSTALLATION INSTRUCTIONS REPORT 22-6460001 DATED 10 OCT 2008 AND MASTER DRAWING LIST ETI-G2-1 REV G. SEE FLIGHT MANUAL SUPPLEMENT FOR OPERATION AND CONTINUED AIRWORTHINESS.

ALL SUPPORTING DOCUMENTS ARE KEPT ON FILE AT THIS FACILITY.

RUN-UP, OP's AND LEAK CHECK OK.

  
DAVID R LANDRETH A&P 2651512 IA



TORNADO ALLEY TURBO INC.  
300 AIRPORT RD  
ADA, OK 74820

ENGINE LOG BOOK ENTRY

1 APRIL 2009



N8146L CIRRUS SR22-G1 SN: 0680 ACFT HOBBS: 855.2 FLIGHT: 855.2  
TCM IO-550-N SN: 913910 ENG TT: 855.2 ENG TSMOH: N/A

COMPLETED ANNUAL INSPECTION USING CIRRUS DESIGN CORPORATION SCHEDULED INSPECTION REPORT  
DATED 15 APRIL 2007 AS A GUIDE.

PERFORMED AIRWORTHINESS DIRECTIVE SEARCH USING AVANTEX DISC 2009-06.

FOUND ALL AIRWORTHINESS DIRECTIVES COMPLIED WITH OR NOT APPLICABLE.

PERFORMED CYLINDER DIFFERENTIAL COMPRESSION CHECK RESULTS WERE #1 72/80, #2 74/80, #3 71/80, #4  
75/80, #5 70/80, AND #6 74/80.

SERVICED ENGINE WITH 7 QUARTS OF AEROSHELL 15W50 OIL AND INSTALLED NEW CH48108-1 OIL FILTER.  
ADJUSTED TIMING TO 22 DEGREES BTC.

I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A ANNUAL HOUR INSPECTION AND  
HAS BEEN DETERMINED TO BE IN AN AIRWORTHY CONDITION.

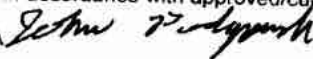
  
DAVID R. LANDRETH A&P 2651512 IA

Date: 6/09/2009; Aircraft: N8146L; Type: SR22; S/N: 0680; Hobbs: 884.40; Total Time: 884.40; Prop - Type:  
Hartzell PHC-J3YC, S/N: FP2524B, Time: 884.40, SMOH: 884.40

\*\*\*Engine Work\*\*\* ID 5226

Replaced Starter adapter assembly p/n 642085A17 with new p/n 642085A15. Leak and opps checked good.  
Loosened #1 cylinder reif heater clamp. Repositioned grommet under clamp. Tightened and safetied clamp. All  
work performed in accordance with approved/current technical data.

John Podgorski  
AP349766925IA



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Watertown, WI 53094  
920-261-4567

Date: 4/16/2009; Aircraft: N8146L; Type: SR22; S/N: 0680; Total Time: 866.20

\*\*\*Engine Work\*\*\* ID 5076

Uncowled and cleaned engine. Tightened turbo controller outlet fitting. Replaced turbo controller inlet fitting  
o-ring p/n MS28778-6 with new. Tightened waste gate oil inlet hose. Serviced engine with 3 qts. 15W50 Aeroshell.  
Ground run for ops and leak ck good. Reinstalled engine cowl.

All work performed in accordance with the Cirrus Design SR22 and Tornado Alley Turbo Maintenance

Manuals.

John Podgorski  
AP349766925IA



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Madison, WI 53704  
608-268-5003



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

Date: 5/19/2009; Aircraft: N8146L; Type: SR22; S/N: 0680; Hobbs: 884.40; Total Time: 884.40

\*\*\*Engine Work\*\*\* ID 5191

Changed oil and filter p/n CH48109, took sample, cut filter, small amount of metal noted. Serviced engine with 8  
qts. 15W50 Aeroshell. Ground run for ops and leak check good. All work performed in accordance with

Approved/Current Technical Data

Scott Swieczak  
AP 389983841

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Madison, WI 53704  
608-268-5003



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



Brought Forward →

Modifications and Service Bulletins

Special Inspections,

Date: 7/16/2009; Aircraft: N8146L; Type: SR22; S/N: 0680; Hobbs: 893.60; Total Time: 893.60; Engine - Type: Continental IO-550-N27, S/N: 913910, Time: 893.60, SMOH: 893.60; Prop - Type: Hartzell PHC-J3YC, S/N: FP2524B, Time: 893.60, SMOH: 893.60

\*\*\*Engine Work\*\*\* ID 5355  
Changed oil and filter p/n ch48109-1, took sample, cut filter, no metal noted, serviced engine with 8 qts. 15W50 Aeroshell. Ground run for ops and leak check good. Checked plug at cht probe, cleaned and applied stabilant 22 to plug. Ops checked good. Check timing and battery charge. Troubleshoot, found mags bad. Points not opening when impulse cupling snapped. Removed right mag s/n D01EA125A installed s/n 56327. Removed left mag s/n d01EA126A installed s/n 56326. Removed and replaced starter adapter p/n 642085A15. Installed starter adapter p/n 642085A15, s/n CAS-2262-1. Removed starter p/n 65181A24V, s/n 02 339 0025. Installed starter p/n C24ST3, s/n 4C3-250911. Found battery terminal nipple ripped and replaced with new nipple p/n 25171-4. Removed, cleaned, and reinstalled all fuel injectors. Leak and ops checked good. All work performed in accordance with approved/current technical data.

John Podgorski  
AP349766925IA

*John Podgorski*

Wisconsin Aviation - Madison  
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Madison, WI 53704  
608-268-5003



Wisconsin Aviation - Watertown  
1741 River Drive  
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920-261-4567

Date: 8/25/2009; Aircraft: N8146L; Type: SR22; S/N: 0680; Hobbs: 928.80; Total Time: 928.80  
\*\*\*Engine Work\*\*\* ID 5502

Changed oil and filter p/n ch48109-1, took sample, cut filter, no metal noted, serviced engine with 8 qts. 15W50 Aeroshell. Replaced #2 CHT probe p/n 14880-001 with new. Replaced CHT probe connector pins p/n 51575-001 with new. Ground run for ops and leak check good. All work performed in accordance with approved/current technical data.

John Podgorski  
AP349766925IA

*John Podgorski*

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Date: 8/26/2009; Aircraft: N8146L; Type: SR22; S/N: 0680; Hobbs: 928.80; Total Time: 928.80; Engine - Type: Continental IO-550-N27, S/N: 913910, Time: 928.80, SMOH: 928.80

\*\*\*Engine Work\*\*\* ID 5502  
Changed oil and filter p/n ch48109-1, took sample, cut filter, no metal noted, serviced engine with 8 qts. 15W50 Aeroshell. Ground run for ops and leak check good. Replaced #2 CHT probe p/n 14880-001 with new. Replaced CHT probe connector pins p/n 51575-001 with new. All work performed in accordance with approved/current technical data.

John Podgorski  
AP349766925IA

*John Podgorski*

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Modifications and Service Bulletins

Special Inspections

Brought Forward →

Date: 11/05/2009; Aircraft: N8146L; Type: SR22; S/N: 0680; Hobbs: 928.80; Total Time: 928.80

\*\*\*Engine Work\*\*\*

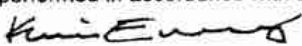
Changed oil and filter (CH48109-1), took sample, cut filter, no metal noted, serviced engine with 8 qts. 15W50

Aeroshell Ground run for ops and leak check good.

All work performed in accordance with approved/current technical data.

Kevin Emery

AP 2723661



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*Original entry inadvertently put in airframe log book. Copy inserted above.*

Date: 5/13/2010; Aircraft: N8146L; Type: SR22; S/N: 0680; Hobbs: 996.0; Total Time: 996.0

\*\*\*Engine Work\*\*\*

AD 09-16-03 (9/9/09), not applicable by Superior Air Parts "Investment" cast cylinders, not installed.

~~AD 09-19-07 (10/7/09) EQ3 Cylinder Head Assemblies, not applicable by engine model.~~

AD 09-24-52 (12/18/09) Hydraulic Lifter Wear, not applicable by engine date of manufacture and no lifters replaced.

Scott E. Yeager

A&P2625357931A



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Date: 5/13/2010; Aircraft: N8146L; Type: SR22; S/N: 0680; Hobbs: 996.0; Total Time: 996.0; Engine - Type: IO-550-N27 Turbo STC, S/N: 913910, Time: 996.0; Prop - Type: HC-J3YF-1N, S/N: FP7287B, Time: 144.8

\*\*\*Engine Work\*\*\*

Completed an Annual inspection in accordance with FAR 43, Appendix D.

Changed oil and filter (CH48109-1), took sample, cut filter, no metal noted, serviced engine with 8 qts. Aeroshell 15W-50. Compression test as follows: #1) 75/80 #2) 76/80 #3) 74/80 #4)76/80 #5) 78/80 #6)74/80. Master orifice reading is 53/80. Cleaned, gapped and tested spark plugs. Checked fuel system operation in accordance with TCM SID97-3E and Tornado Alley Continued Airworthiness Manual 22-6460004 Rev A. Adjusted manifold pressure down to 31.5 inches. Fuel flow at 29.6 inches is at 35 GPH. Checked magneto to engine timing. Ground run for operational and leak checks good. 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.

Clifford Sugden

A&P26599941A



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Brought Forward

Modifications and Service Bulletins

Date: 8/06/2010; Aircraft: N8146L; Type: SR22; S/N: 0680; Hobbs: 1039.5; Total Time: 1039.5  
\*\*\*Engine Work\*\*\*

Changed oil and filter (CH48109-1), took sample, cut filter, no metal noted, serviced engine with 8 qts. 15W50  
Aeroshell. Inspected engine, pressurized induction system for leaks, no leaks noted. Adjusted left and right mag  
timing to 22 degrees BTC. Ground run for operational and leak check good.  
All work performed in accordance with approved/current technical data.

Scott Campbell  
AP 3241590

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TORNADO ALLEY TURBO INC.  
300 AIRPORT RD  
ADA, OK 74820

ENGINE LOG BOOK ENTRY

TORNADO ALLEY TURBO INC.



N8146L CIRRUS SR22-G1 SN: 0680 ACFT HOBBS: 1051.7 FLIGHT: 1051.7  
TCM IO-550-N SN: 913910 ENG TT: 1051.7 ENG TSMOH: N/A

CHECKED AND ADJUSTED MAGNETO TIMING TO SPECIFICATIONS. REMOVED AND REPLACED #3 FUEL NOZZLE  
WITH SIZE "C". REMOVED AND REPLACED #4 FUEL NOZZLE WITH SIZE "F". ADJUSTED MANIFOLD PRESSURE  
SETTING UP 1 INCH.  
REPLACED LOWER RIGHT TURBO HEAT SHIELD. REMOVED AND REPOSITIONED LEFT MANIFOLD HEAT SHIELD.  
RUN-UP, OP'S AND LEAK CHECK OK.

DAVID R LANDRETH A&P 2651512 IA

Date: 12/27/2010; Aircraft: N8146L; Type: SR22; S/N: 0680; Hobbs: 1089.0; Total Time: 1089.0  
\*\*\*Engine Work\*\*\*

Changed oil and filter (CH48109-1), took sample, cut filter, no metal noted, serviced engine with 8 qts. 15W50  
Aeroshell. Ground run for operational and leak check good.  
All work performed in accordance with approved/current technical data.

Scott E. Yeager  
A&P262535793IA

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Date: 5/19/2011; Aircraft: N8146L; Type: CIRRUS SR22; S/N: 0680; Hobbs: 1118.0; Total Time: 1118.0  
\*\*\*Engine Work\*\*\*

AD10-11-04 (6/16/10) Hydraulic valve lifters, not applicable by engine date of manufacturer and no lifters  
replaced after 6/19/09.

Scott E. Yeager  
A&P262535793IA

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Date: 5/19/2011; Aircraft: N8146L; Type: CIRRUS SR22; S/N: 0680; Hobbs: 1118.0; Total Time: 1118.0; Engine - Type: IO-550-N27 Turbo STC, S/N: 913910, Time: 1118.0; Prop - Type: HC-J3YF-1N, S/N: FP7287B, Time: 266.8  
\*\*\*Engine Work\*\*\*

Completed an Annual inspection in accordance with FAR 43, Appendix D.

Changed oil and filter p/n CH48109-1, took sample, cut filter, no metal noted, serviced engine with 8 qts. 15W50 Aeroshell. Compression test as follows: #1) 70/80, #2) 73/80, #3) 68/80, #4) 71/80, #5) 75/80, #6) 70/80. Cleaned, gapped and tested spark plugs. Adjusted idle mixture to 25 RPM rise at shutdown. Applied stabilant 22 to #6 cylinder EGT probe connections. Replaced starter base o-ring p/n MS9021-038 with new. Checked mag to engine timing. Checked engine control travels and lubricated. Ground run for operational and leak check good. 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.

John Podgorski  
AP35315931A

*John Podgorski*

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Ice Record  
Special Inspections,

Date: 10/11/2011; Aircraft: N8146L; Type: CIRRUS SR22; S/N: 0680; Hobbs: 1182.9; Total Time: 1182.9  
\*\*\*Engine Work\*\*\*

Changed oil and filter (CH48109-1), took sample, cut filter, no metal noted, serviced engine with 8 qts. 15W50 Aeroshell. Ground run for operational and leak check good.

All work performed in accordance with approved/current technical data.

Craig Miller  
AP3530065

*Craig Miller*

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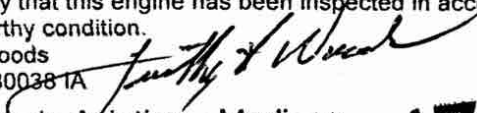
Date: 6/01/2012; Aircraft: N8146L; Type: CIRRUS SR22; S/N: 0680; Hobbs: 1228.7; Total Time: 1228.7; Engine - Type: IO-550-N27 Turbo STC, S/N: 913910, Time: 1228.7; Prop - Type: PHC-J3YF-1N, S/N: FP7287B, Time: 377.5  
\*\*\*Engine Work\*\*\*

Completed an Annual inspection in accordance with FAR 43, Appendix D.

AD 11-25-51 (12/28/11) Starter adapter shaft gear inspection, not applicable by starter adapter part number. AD 12-03-06 (2/24/12) AFS Fuel system fuel servo diaphragm inspection, not applicable by fuel servo manufacturer. AD 11-26-07 (1/24/12) Magneto impulse coupling stop pin inspection, not applicable by magneto manufacturer. Completed inspection for continued airworthiness for Tornado Alley Turbo System. Changed oil and filter p/n CH48109-1, took sample, cut filter, no metal noted, serviced engine with 8 qts. 15W50 Aeroshell. Compression test as follows: #1) 68/80, #2) 64/80, #3) 64/80, #4) 67/80, #5) 70/80, #6) 55/80. Master Orifice 42/80. Cleaned, gapped and tested spark plugs. Checked mag to engine timing. Checked engine control travels and lubricated. Ground run for ops and leak ck good. 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.

Timothy Woods  
A&P 399480038-1A



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Date: 9/26/2012; Aircraft: N8146L; Type: CIRRUS SR22; S/N: 0680; Hobbs: 1262.4; Total Time: 1262.4  
\*\*\*Engine Work\*\*\*

Changed oil and filter (CH48109-1), took sample, cut filter, no metal noted, serviced engine with 8 qts. 15W50 Aeroshell. Ground run for operational and leak check normal.

All work performed in accordance with approved/current technical data.

Eric Nelson  
AP3615101



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# Engine Service and Maintenance Record

Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins

| Date | Total Time |      | Time Since Last Overhaul |      |
|------|------------|------|--------------------------|------|
|      | Hrs.       | Min. | Hrs.                     | Min. |

Brought Forward  $\longrightarrow$

Date: 7/24/2013; Aircraft: N8146L; Type: CIRRUS SR22; S/N: 0680; Hobbs: 1295.0; Total Time: 1295.0; Engine - Type: IO-550-N27 Turbo STC, S/N: 913910, Time: 1295.0; Prop - Type: PHC-J3YF-1N, S/N: FP7287B, Time: 443.8  
 \*\*\*Engine Work\*\*\*

Completed an Annual inspection in accordance with FAR 43, Appendix D.  
 AD 12-10-13 (6/8/12) Starter adapter shaft gear inspection, not applicable by starter adapter part number.  
 Completed magneto 500 hr inspection as follows: Reinstalled left magneto p/n 10-500556-101, s/n 56326 after repair (500 hr inspection) by Aircraft Systems, Inc., CRS# KC2R947K, Wo# 48121, dated 07/18/2013. Reinstalled right magneto p/n 10-500556-101, s/n 56327 after repair (500 hr inspection) by Aircraft Systems, Inc., CRS# KC2R947K, Wo# 48121, dated 07/18/2013. Timed left and right magnetos to engine. Next due 1795.0 ACTT.  
 Completed 500 hr / 5 yr fuel nozzle cleaning in accordance with Inspection for continued airworthiness for Tornado AlleyTurbos. Changed oil and filter p/n CH48109-1, took sample, cut filter, no metal noted, serviced engine with 7 qts. X/C 20W50 Phillips. Compression test as follows: #1) 65/80, #2) 73/80, #3) 63/80, #4) 69/80, #5) 70/80, #6) 63/80. Replaced (12ea) spark plugs p/n URHB32E with new. Checked mag to engine timing. Checked engine control travels and lubricated. Adjusted idle mixture to obtain 30 RPM increase. Ground run for operational and leak check 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.

John Podgorski *John Podgorski*  
 AP3531593IA  
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 Madison, WI 53704  
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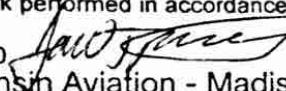
Date: 9/13/2013; Aircraft: N8146L; Type: CIRRUS SR22; S/N: 0680; Hobbs: 1333.7; Total Time: 1333.7

\*\*\*Engine Work\*\*\*

Changed oil and filter (CH48109-1), took sample, cut filter, no metal noted, serviced engine with 8 qts. Phillips X/C 20W50 and 1 pt. Cam Guard. Ground run for operational and leak check normal.

All work performed in accordance with approved/current technical data.

Jared Portz  
AP 3558320



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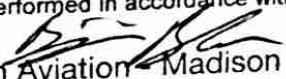
Date: 10/04/2013; Aircraft: N8146L; Type: CIRRUS SR22; S/N: 0680; Hobbs: 1340.8; Total Time: 1340.8

\*\*\*Engine Work\*\*\*

Removed, cleaned and reinstalled #6 cylinder fuel injector nozzle. Replaced #6 cylinder EGT sensor p/n 14554-001 with new. Removed, inspected #6 cylinder CHT probe, no defects noted. Reinstalled #6 CHT probe. Ground run for operational and leak check normal.

All work performed in accordance with approved/current technical data.

Benjamin Brake  
AP 3223985



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# Engine Service and Maintenance Record

Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins

| Date            | Total Time |      | Time Since Last Overhaul |      |
|-----------------|------------|------|--------------------------|------|
|                 | Hrs.       | Min. | Hrs.                     | Min. |
| Brought Forward | →          |      |                          |      |

Date: 4/25/2014; Aircraft: N8146L; Type: CIRRUS SR22; S/N: 0680; Hobbs: 1369.1; Total Time: 1369.1

\*\*\*Engine Work\*\*\*  
 Changed oil and filter (CH48109-1), took sample, cut filter, no metal noted, serviced engine with 7 qts. Phillips X/C 15W50 and 1 pt. Cam Guard. Complied with Savvy Cirrus SR22 guide for oil changes and service items. Ground run for operational and leak check normal.  
 All work performed in accordance with approved/current technical data.

Chris Shaffer  
 AP 321524 IA



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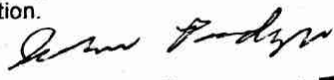
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 1741 River Drive  
 Watertown, WI 53094  
 920-261-4567

Date: 7/09/2014; Aircraft: N8146L; Type: CIRRUS SR22; S/N: 0680; Hobbs: 1402.1; Total Time: 1402.1; Engine - Type: IO-550-N27 Turbo STC, S/N: 913910, Time: 1402.1; Prop - Type: PHC-J3YF-1N, S/N: FP7287B, Time: 550.9

\*\*\*Engine Work\*\*\*  
 Completed an Annual inspection in accordance with FAR 43, Appendix D. AD 14-05-29 (4/25/14) Not applicable by Superior Air Parts "Investment" cast cylinders, not installed. Changed oil and filter p/n CH48108-1, took sample, cut filter, no metal noted, serviced engine with 8 qts X/C 20W50 Phillips and 1 pt Cam Guard. Compression test as follows: #1) 67/80, #2) 58/80, #3) 62/80, #4) 67/80, #5) 68/80, #6) 63/80. Master Orifice 42/80. Cleaned, gapped and tested spark plugs. Replaced prop governor base gasket p/n MS9144-01 with new. Removed, cleaned, resealed, and reinstalled left and right turbo oil inlet check valves. Replaced starter adapter gasket p/n 653470 and o-ring p/n AS3578-038 (MS9021-038) with new. Checked mag to engine timing. Checked engine control travels and lubricated.  
 Ground run for operational and leak check 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.

John Podgorski  
 AP3531593IA



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 Watertown, WI 53094  
 920-261-4567

Date: 7/25/2014; Aircraft: N8146L; Type: CIRRUS SR22; S/N: 0680; Hobbs: 1411.7; Total Time: 1411.7

\*\*\*Engine Work\*\*\*

Adjusted manifold pressure from 30.5 @ 170 degrees oil temp on first run to 30.9 @ 184 degrees oil temp on third run. Functional check normal.

All work performed in accordance with approved/current technical data.

John Podgorski

AP35315931A

*John Podgorski*  
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Date: 9/12/2014; Aircraft: N8146L; Type: CIRRUS SR22; S/N: 0680; Hobbs: 1447.0; Total Time: 1447.0

\*\*\*Engine Work\*\*\*

Changed oil and filter (CH48109-1), took sample, cut filter, no metal noted, serviced engine with 8 qts X/C 20W50 Phillips. Completed Saavy oil change checklist. Ground run for operational and leak check normal.

All work performed in accordance with approved/current technical data.

Craig Miller

AP3530065

*Craig Miller*  
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| Date            | Total Time |      | Time Since Last Overhaul |      | <b>Engine Service and Maintenance Record</b><br>Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins |
|-----------------|------------|------|--------------------------|------|--|
|                 | Hrs.       | Min. | Hrs.                     | Min. |  |
| Brought Forward | →          |      |                          |      |  |



**Centerline Aviation, LLC**

Great Bend Airport Great Bend, KS 620-796-2130

N8146L

DATE: 04-16-2015 HOBBS: 1468.8

Removed propeller and forward engine baffle. Installed new crankshaft seal P/N SA641250 in accordance with continental service manual. Reinstalled propeller in accordance with Hartzell maintenance manual. Performed 20 min engine ground run with no leaks observed. Reinstalled cowling. Aircraft approved for return to service with regard to the work performed.

*Derek Genova*  
DEREK GENOVA A&P2650718

Date: 7/20/2015; Aircraft: N8146L; Type: CIRRUS SR22; S/N: 0680; Hobbs: 1495.9; Total Time: 1495.9; Engine - Type: IO-550-N27 Turbo STC, S/N: 913910, Time: 1495.9; Prop - Type: PHC-J3YF-1N, S/N: FP7287B, Time: 644.7  
\*\*\*Engine Work\*\*\*

Completed an Annual inspection in accordance with FAR 43, Appendix D. Completed inspection for continued airworthiness Tornado Alley Turbo, no defects noted. Compression test as follows: #1) 74/80, #2) 75/80, #3) 67/80, #4) 74/80, #5) 75/80, #6) 70/80.

Master Orifice: 43/80. 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. 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.

Clifford Sugden  
AP2659994IA

*Clifford Sugden*

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Watertown, WI 53094  
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Date: 3/05/2016; Aircraft: N8146L; Type: CIRRUS SR22; S/N: 0680; Hobbs: 1540.1

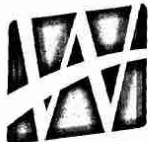
\*\*\*Engine Work\*\*\*

Changed oil and filter p/n CH48109-1, took sample, cut filter, no metal noted, serviced engine with 8 qts. Phillips 20W-50. Ground run for operational and leak checks normal. All work performed in accordance with approved/current technical data

Chris Shaffer  
AP3218524 IA



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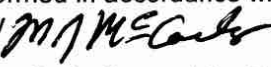
Date: 5/26/2016; Aircraft: N8146L; Type: CIRRUS SR22; S/N: 0680; Hobbs: 1583.1; Total Time: 1583.1

\*\*\*Engine Work\*\*\*

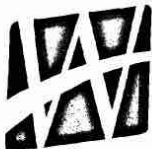
Changed oil and filter p/n CH48109-1, took sample, cut filter, no metal noted. Serviced engine with 8 qts Phillis XC 20W50 oil and 1 pint Cam guard. Ground run for operational and leak checks normal.

All work performed in accordance with approved/current technical data.

Martin McCauley  
AP3654552IA



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