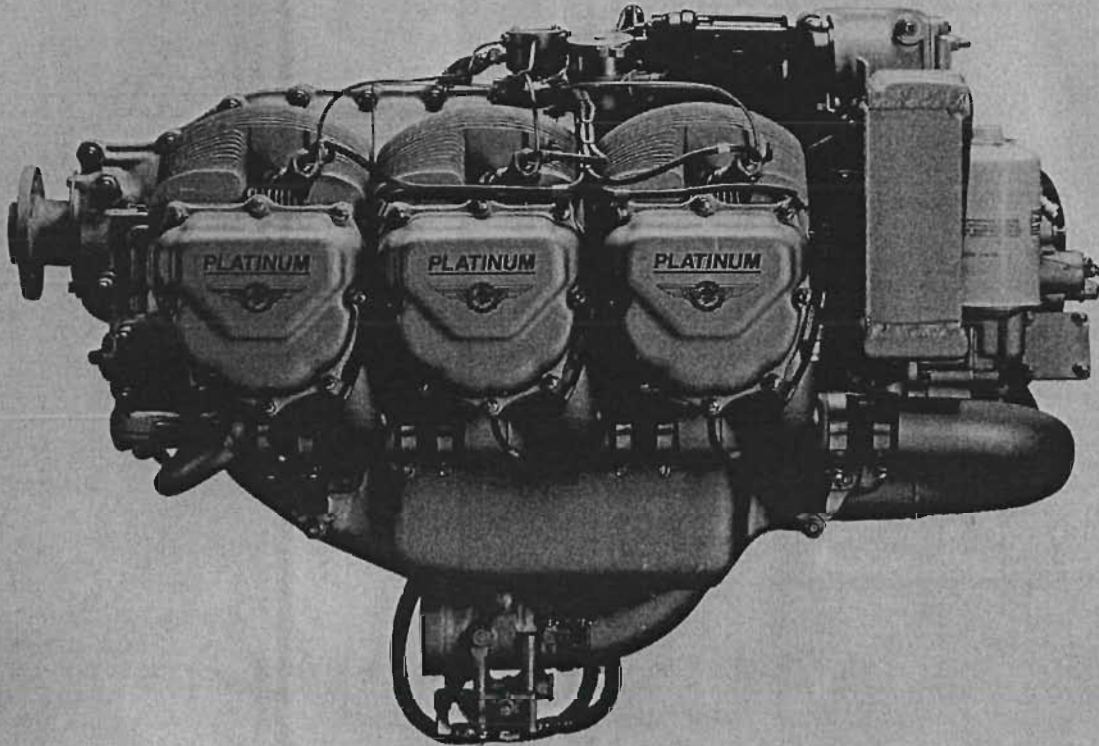


N518BP

# PLATINUM ENGINE LOG BOOK



# CONTINENTAL MOTORS

N518BP

# 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: 08/05/2007

This engine model I0550N50, Serial No. 691339 was manufactured on 08/04/2007 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.



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**TELEDYNE CONTINENTAL MOTORS**

A TELEDYNE TECHNOLOGIES COMPANY

PRODUCTION CERTIFICATE NO. 508


## **Service Information**

Service Bulletins and Technical Publications are available on a direct mail basis from the factory. Orders must be prepaid. Send for order form or call 334-438-3411, publications department, for information.

## **Engine Returns**

All returned engines are to be shipped with this log book  
Directly to:

Teledyne Continental Motors  
2039 Broad Street  
Mobile, AL 36615

Date	Total Time		Time Since Last Overhaul		<b>Engine Service and Maintenance Record</b> Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
	Hrs.	Min.	Hrs.	Min.	
9/6/07	6	.7			THE FOLLOWING SUPPLEMENTAL TYPE CERTIFICATE NUMBER HAS BEEN INSTALLED ON THIS ENGINE SE10589SC CDC  ON SEP 07 2007 Cirrus Design Corporation Duluth, MN USA PC# 338CE
2007 SEPT. 26	24.	0			PERFORMED OIL & FILTER CHANGE W/ 8 QTS. AEROSHELL 100WDET OIL & CH48108-1 & SAFETY. RAN ENGINE. OPS. CHECK - LEAK CHECK - OK <i>Robert J. Brown</i> A. 2186835
Nov. 19, 07	47.3				PERFORMED 50 HOUR INSPECTION THIS DATE: R&R COMPLETE COWL, DRAIN OIL. SERVICE WITH 8 QTS. AEROSHELL 100WDET OIL. R&R OIL FILTER W/ NEW CH48108-1 & SAFETY. CHECK, SERVICE AND CHARGE A/C 24 VOLT BATTERY. CHECKED INOP A/B BY PARTIAL TESTS. RESEAT SEAT SECURE BRUSHES & BRUSH BLOCK ASSY. RAN ENGINE. OPS. CHECK - LEAK CHECK - OK. CERTIFY THIS AIRCRAFT ENGINE WAS INSPECTED IN ACCORDANCE WITH A 50 HOUR INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION. <i>Robert J. Brown</i> A. 2186835
Nov. 29, 2007	Mx 66.0 Et. 47.3				R&R ALTERNATOR ASSY. W/ NEW OPS. CHECK - LEAK CHECK - OK <i>Robert J. Brown</i> A. 2186835
JANUARY 24, 2008	119.	8			PERFORMED 100 HOUR INSPECTION THIS DATE: R&R COMPLETE ENGINE COWL, DRAIN OIL - SERVICE W/ 8 QTS. AEROSHELL 100WDET OIL. R&R OIL FILTER W/ NEW CH48108-1 & SAFETY. R&R ALL 12 SPARK PLUGS. CLEANED, GAPPED, WUBED & TORQUED TO 360 IN. LBS. PERFORMED CYLINDER COMPRESSION TEST: #1 78/80, #2 76/80, #3 74/80, #4 72/80, #5 70/80, #6 70/80. CHECKED MAGTIMING. INSPECTED TH & 1/4 TURBOCHARGER & IMPELLER ASSYS. CHECKED FUEL SYSTEM. CLEANED INJECTORS. CHECKED FUEL LINES. CHECKED ALL HOSES, LINES & FITTINGS. CHECKED OIL COOLER & TEMP. PROBE. CHECKED UPPER DECK PRESSURE MANIFOLDING TO INJECTORS & PRESSURIZED MAGS. CHECKED INDUCTION SYS. EXHAUST SYSTEM, VACUUM SYSTEM, CHARGING SYSTEM, IGNITION SYSTEM & HARNESS LEADS. CHECKED ALL ENGINE CONTROLS & ADJUSTED PROP. GOV. TO MEACH 2700 RPM. CHECK WIRING, ALTERNATOR, ALTERNATE AIR AND ALL PROBES. WASHED ENGINE W/ MINERAL SPIRITS. RAN ENGINE. OPS. CHECK - LEAK CHECK - OK. I CERTIFY THIS AIRCRAFT ENGINE HAS BEEN DUTIFULLY INSPECTED IN ACCORDANCE WITH A 100 HOUR INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION. THIS AIRCRAFT PROPELLER WAS INSPECTED AND CONSIDERED AIRWORTHY. <i>Robert J. Brown</i> A. 2186835
	146.	0			PERFORMED 50 HOUR INSPECTION: R&R COMPLETE COWL ASSY. CHECKED ALL SYSTEMS FOR LEAKS AND SECURITY. DRAINED OIL - SERVICED WITH 8 QTS. 15-50 AEROSHELL OIL. R&R OIL FILTER W/ NEW CH48108-1 & SAFETY. WASHED ENGINE W/ MINERAL SPIRITS. RAN ENGINE. OPS. CHECK - LEAK CHECK - OK <i>Robert J. Brown</i> A. 2186835
JULY 1, 2008	224.	0			PERFORMED 100 HOUR THIS DATE: R&R THE COMPLETE COWL ASSY. DRAINED OIL & SERVICED W/ 8 QTS. AEROSHELL 15-50 DET. OIL. R&R OIL FILTER W/ NEW CH48108-1 & SAFETY. R&R ALL 12 SPARK PLUGS; CLEAN, GAP, TEST. PERFORM CYL. COMPRESSION TEST: #1 76/80, #2 77/80, #3 74/80, #4 76/80. CHECKED MAGTIMING. CHECKED INDUCTION SYSTEM INCLUDING COMPRESSOR IMPELLERS, TURBO VANES & BLADES; MANIFOLDING, UPPER DECK PRESSURE TUBING & SEALS. CHECKED EXHAUST SYSTEM, CHARGING SYSTEM, BOTH ALTERNATORS AND BATTERIES. WASHED THE ENGINE W/ MINERAL SPIRITS. RAN ENGINE. OPS. CHECK - LEAK CHECK - OK. I CERTIFY THIS AIRCRAFT ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 HOUR INSPECTION AND WAS DETERMINED TO BE IN

Date	Total Time		Time Since Last Overhaul		Engine Service and Maintenance Record Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
	Hrs.	Min.	Hrs.	Min.	
AUGUST 1 2008					
Brought Forward	→				CHECKED ENGINE SYSTEMS FOR REPORTED LOW POWER OUTPUT - CHECKED CYL. COMPRESSION
AUG 1, '08	329.	5	263.	7	TEST - OK. CHECK & RESET MAG TIMING, CHECKED HOSES, IMPELLER BLADES, ADJUSTED RPM SETTING. PER FOWARD INDUCTION FWD. MANA FOLD, FOUND MID-COUPLER HOSE - COLLAPSED OUTLET RADIUS. STRAIGHTED OUTLET FLANGE, SECURED HOSE DUCT. <i>Robert S. Boney</i> I.A. 2186835
SEPT. 10 2008			284.	6	PERFORMED ANNUAL INSPECTION: R & R COMPLETE COWL - DRAIN OIL. SERVICED W/ 8 QTS. AERO SHELL 15-50 DET. OIL. R & R OIL FILTER W/ NEW CH48108-1 & SAFETY. CHECKED EXHAUST SYSTEM, INDUCTION SYSTEM, R & R ALL 12 SPARK PLUGS, CLEAN, GAP, TEST PERFORMED CYLINDER COMPRESSION TEST: #1 72/80, #2 76/80, #3 75/80, #4 76/80, #5 75/80, #6 74/80. CHECKED MAG TIMING. CHECKED TURBO SYSTEM MOUNT, WIRING, HOSES, LINES & FITTINGS. CHECKED ENGINE ACCESSORIES, GAFFLING, FUEL SYSTEM, SCREENS, SERVO, PUMP, HOSES & FITTINGS. CHECKED BOTH ALTERNATORS, WASHED ENGINES W/ MINERAL SPIRITS. RAN ENGINE. OPS. CHECK - LEAK CHECK - OK. <u>I CERTIFY THIS AIRCRAFT ENGINE WAS INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION.</u> <i>Robert S. Boney</i> I.A. 2186835
OCT. 28 2008	314.	0	395.	5	HOBBY FLT CHANGED OIL & FILTER W/ 8 QTS. AERO-SHELL 15-50W & CH48108-1 & SAFETY. SERV. ALL TIRES TO SPEC. WASHED ENGINE WITH MINERAL SPIRITS. RAN ENGINE. OPS. CHECK - LEAK CHECK - OK. <i>Robert S. Boney</i> I.A. 2186835
MAY 7, 2009	396.	8	396.	8	PERFORMED 100 HOUR INSPECTION: R & R COMPLETE COWL ASSY, DRAINED OIL - SERVICED W/ 8 QTS. AERO SHELL 15-50 DET OIL. R & R OIL FILTER W/ NEW CH48108-1 & SAFETY. CHECK SCREENS, R & R ALL 12 SPARK PLUGS & REPLACE W/ NEW P/N 332E CHAMPIONS CHECK MAG TIMING, PERFORM CYL COMPRESSION CHECK: #1 72/80, #2 68/80, #3 55/80, #4 63/80, #5 64/80, #6 65/80 - OK. CHECKED EXHAUST SYSTEM, TURBO SYSTEM, INDUCTION SYSTEM, INTERCOOLERS, INJECTORS, LINES, HOSES & FITTINGS. CHECKED ALL ACCESSORIES, ENGINE MOUNT & SHOCKS. WASHED ENGINE W/ MINERAL SPIRITS. RAN ENGINE. OPS. CHECK - LEAK CHECK - OK. <u>I CERTIFY THIS AIRCRAFT ENGINE WAS INSPECTED IN ACCORDANCE WITH A 100 HOUR INSPECTION AND WAS DETERMINED TO BE IN SUCH AIRWORTHY CONDITION.</u> <i>Robert S. Boney</i> I.A. 2186835



1903 Embarcadero Road, Palo Alto, CA 94303

650-494-5516 www.advantage-aviation.com

W/O: 3743 Aircraft: N518BP Tach: 452.9 TSMOH: NEW TTE: 452.9 Date: 8/20/2009

Model: TCM IO-550-N S/N: 691339

Engine Entry

Completed 50 hour inspection and service. Drained oil. Removed and replaced oil filter with new. Examined old oil filter element, no defects noted at this time. Removed oil sump screen, inspected for foreign debris, no defects noted at this time. Re-installed sump screen & plug with new gasket & safetied. Serviced engine with 8 quarts Aeroshell 15W50 oil. Cleaned, gapped and tested spark plugs. Rotated and re-installed spark plugs using new gaskets P/N: M-674. Ground ran engine, leak and ops check good, no defects noted at this time.

All work completed in accordance with Cirrus SR-22 Service Manual. This Engine is approved for return to service for only work performed above.

Mike Wyant A&P 2842700

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



1903 Embarcadero Road, Palo-Alto, CA 94303 650-494-6516 www.advantage-aviation.com

W/O: 3657 Aircraft: N518BP Tach: 476.3 TSMOH: NEW TTE: 476.3 Date: 9/5/2009  
Model: TCM IO-550-N S/N: 691339

**Engine Entry**

Removed starter and starter adapter after no-start condition. Found sealed bearing in starter adapter missing bearing cage. Drained oil. Removed magnetic drain plug, oil sump, oil filter, oil filter adapter, and governor searching for missing metal. Located majority of metal pieces in oil sump. Flush oil sump area and cleaned out rear accessory case. Installed new oil sump gasket P/N: 655546 and installed new sump cover. Installed new governor gasket and oil filter adapter with new gasket. Installed repaired starter adapter with new gasket and silk thread. Installed new Sky-Tec starter P/N C24ST3, S/N 4C3-250917. Reconnected all lines, hoses and wiring disconnected during starter adapter removal. Filled sump with 7 quarts 15W-50 AeroShell Oil. Installed new Champion CH48108-1 oil filter. Ground ran engine, no leaks or defects noted. Re-cwled engine. Released aircraft for 10hrs of test flying only with no passengers allowed on board. All work completed in accordance with Cirrus SR-22 maintenance manual, Continental IO-550 overhaul manual #X30634A. -End.

All work completed in accordance with Cirrus SR-22 Service Manual. This **Engine** is approved for return to service for only work performed above.

Mike Wyant A&P 2842700



1903 Embarcadero Road, Palo-Alto, CA 94303 650-494-6516 www.advantage-aviation.com

W/O: 3903 Aircraft: N518BP Tach: 562.8 TSMOH: NEW TTE: 487.1 Date: 10/7/2009  
Model: TCM IO-550-N S/N: 691339

**Engine Entry**

Drained oil. Removed oil drain magnetic plug and inspected, found no defect, reinstalled plug with new gasket and safetied. Serviced with 8 qts Aeroshell 15W50 oil. Removed oil filter, cut open and inspected, found no defect. Installed new Champion CH48108-1 oil filter and safetied. Ground ran engine, no leaks or defects at this time.-END

All work completed in accordance with Cirrus SR-22 Service Manual. This **Engine** is approved for return to service for only work performed above.

Mike Wyant A&P 2842700



1903 Embarcadero Road, Palo-Alto, CA 94303 650-494-6516 www.advantage-aviation.com

W/O: 4097 Aircraft: N518BP Tach: 546.2 TSMOH: NEW TTE: 546.2 Date: 03/01/2010  
Model: SR-22 S/N: 2683

**Engine Entry**

Inspected engine. Compression results: #1-75/80, #2-78/80, #3-77/80, #4-72/80, #5-74/80, #6-74/80. Drained oil. Removed and replaced oil filter with new (P/N: CH48108-1). Examined old oil filter element and oil suction screen, no defects noted. Serviced engine with 8 quarts Aeroshell 15W50. Cleaned, gapped and tested spark plugs. Rotated and re-installed spark plugs using new gaskets (P/N: M-674). Replaced both spark plugs on cylinder #5 with new P/N: RHB32E. Re-torqued all rocker box cover screws. Cleaned engine. Re-timed left and right magnetos to engine. Adjusted fuel flows in accordance with TCM SID97-3E. Replaced starter with new Sky-Tec C24ST5 starter S/N: 4C5-490908, operational check and leak check good. See new weight & balance change dated 3/1/2010. Ground ran engine, leak and ops check good. No defects noted at this time. Verified AD's current through AD 2009-24-52. **AD2009-24-52 (valve lifter wear)** is NOT APPLICABLE by date of manufacture of this engine. **AD2009-16-03 (SAP cylinder assy)** is NOT APPLICABLE by no SAP cylinder assemblies installed on this engine. All work and inspection completed in accordance with Cirrus SR-22 Service Manual.-END

I certify that this engine has been inspected in accordance with FAR 43 Appendix D (Annual Inspection), Cirrus SR-22 Annual inspection checklist & TAT ICA Manual #646-0004 and has been determined to be in an airworthy condition.

Mike Wyant A&P / IA 2842700

Date	Total Time		Time Since Last Overhaul		<b>Engine Service and Maintenance Record</b> Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
	Hrs.	Min.	Hrs.	Min.	

Brought Forward

Date **6/22/2010**  
W/O# **10841**



**Engine Logbook Entry** AIRCRAFT: **N 518BP**  
**CRS AWKR298C** S/N **2683**  
25170 Aviation Ave., Davis, CA 95616

Tach / Hobbs 700.2 CHANGED OIL AND FILTER. INSPECTED OIL FILTER FOR METAL AND DEBRIS IN ELEMENT. NO DISCREPANCIES NOTED. OIL SAMPLE TAKEN AND SENT FOR ANALYSIS. INSTALLED NEW FILTER AND SERVICED ENGINE WITH 8 QUARTS AEROSHELL 15W50. RUN UP AND LEAK CHECK NORMAL.  
FLIGHT 611.0 COMPLIED WITH TORNADO ALLEY TURBO MANDATORY SB 10-01, INSPECTION OF HINGE PIN ENDS ON THE ALTERNATE AIR DOOR FOR CRACKS, LOOSE RIVETS AND / OR MISSING RETENTION METHODS WITH NO DEFECTS NOTED.  
INSTALLED A NEW P/N C24ST3, S/N 4C3151053 STARTER, FUNCTION CHECKED NORMAL.  
INSTALLED NEW P/N ETI-G2-200-M2-1 UPPER INDUCTION TUBE. INSTALLED NEW P/N 22-6200035 LOWER RIGHT HAND EXHAUST WASTEGATE SUPPORT BRACKET.

**The Aircraft and/or component identified above was repaired and inspected IAW FAA regulations and was found airworthy to return to service only for the work performed. Pertinent details of the repair are on file at this agency: Signed: Damon Schmidt**

Damon Schmidt

ENGINE MODEL: IO 550 N Lone Star Aero  
ENGINE S/N: Repair Station No. LSZR252X  
REG. NO: N518BP 477 Sandau Rd Hangar F  
WORK ORDER: San Antonio, Texas 78216 USA  
4630-08-2010 Phone: 210-979-6313

DATE: 8/12/2010  
A/C TSN: 655.9  
ENG TT: 655.9  
FLIGHTTIME: 655.9

**Engine Entries**

Remove defective primary alternator assembly Pn ES 10024 serial number H114061 and install newly overhauled assembly serial number K070309. ground run engine ops check good.

The aircraft and/or component(s) identified above was repaired and inspected in accordance with current maintenance rules of the Federal Aviation Regulations and is approved for return to service. "Pertinent details of the repair are on file at this repair station under the referenced Work Order number."

DATE: 8/12/2010

SIGNED: Scott O. Carney

Work Order: 4630-08-2010

Scott O. Carney  
Certified Repair Station No. LSZR252X

Printed by EBis 3 (dalcomedia.com)

Date **9/2/2010**  
W/O# **10976**



**Engine Logbook Entry** AIRCRAFT: **N 518BP**  
**CRS AWKR298C** S/N **2683**  
25170 Aviation Ave., Davis, CA 95616

Tach / Hobbs 758.3  
FLIGHT 696.0 PERFORMED CIRRUS DESIGN 50 HOUR SERVICE PER WOODLAND AVIATION SERVICE INSTRUCTION STEPS. ALL WORK DONE IN ACCORDANCE WITH APPLICABLE MANUALS.  
CHANGED OIL AND FILTER. INSPECTED OIL FILTER FOR METAL AND DEBRIS IN ELEMENT. NO DISCREPANCIES NOTED. OIL SAMPLE TAKEN AND SENT FOR ANALYSIS. INSTALLED NEW FILTER AND SERVICED ENGINE WITH 7 QUARTS AEROSHELL 15W50. RUN UP AND LEAK CHECK NORMAL.  
INSTALLED 1 EA NEW P/N RHB32E #4 CYLINDER SPARK-PLUG; FUNCTION CHECKED NORMAL.  
COMPLIED WITH TORNADO ALLEY TURBO MANDATORY SB 10-01, INSPECTION OF HINGE PIN ENDS ON THE ALTERNATE AIR DOOR FOR CRACKS, LOOSE RIVETS AND / OR MISSING RETENTION METHODS WITH NO DEFECTS NOTED. COMPLIED WITH TORNADO ALLEY TURBO MANDATORY SB10-02 BY INSTALLATION OF NEW P/N 22-6200039 AND 22-6200045 L/H AND R/H TAIL PIPE HANGER BRACKETS. INSTALLED NEW P/N 626557 ENGINE FUEL MANIFOLD SCREEN, LEAK AND FUNCTION CHECKED NORMAL. INSTALLED NEW P/N 13913-002 R/H CYLINDER DRAIN TUBE. REMOVED TURBO SUPPORT UPPER BRACKETS AND LEFT WASTEGATE UPPER SUPPORT BRACKET. INSTALLED NEW TURBO SUPPORT UPPER BRACKETS P/N 22-6250005 AND TORQUED TO SPEC. INSTALLED NEW SUPPORT ROD ON THE LEFT P/N ETI-G2-600-35. ADJUSTED SPRING TENSION. INSTALLED NEW SUPPORT ROD ON THE RIGHT P/N ETI-G2-600-36 AND ADJUSTED SPRING TENSION.

**The Aircraft and/or component identified above was repaired and inspected IAW FAA regulations and was found airworthy to return to service only for the work performed. Pertinent details of the repair are on file at this agency: Signed: Damon Schmidt**

Damon Schmidt

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

Date **3/17/2011**  
W/O# **11290**



**Engine Logbook Entry**  
**CRS AWKR298C**  
25170 Aviation Ave., Davis, CA 95616

**AIRCRAFT: N 518BP**  
**S/N 2683**

Tach / Hobbs  
Eng TSN  
Eng TSO

855. COMPLETED AN ANNUAL INSPECTION PER FAR 43 APPENDIX "D" USING CIRRUS SR22 INSPECTION GUIDE. ALL WORK DONE IN ACCORDANCE WITH APPLICABLE MANUALS. COMPLIED WITH TORNADO ALLEY TURBO INSTRUCTIONS FOR CONTINUED AIRWORTHINESS PER DOCUMENT NO. 22-6460004.

855.5 NA CHANGED OIL AND FILTER, CUT AND INSPECT FILTER, NO METAL FOUND. TOOK OIL SAMPLE AND SENT OUT FOR ANALYSIS. SERVICED WITH 8 QTS. AEROSHELL 100 STRAIGHT MINERAL OIL. RUN UP, NO LEAKS NOTED. COMPRESSION CHECK: #1- 68/80, #2- 69/80, #3- 65/80, #4- 50/80, #5- 35/80, #6- 70/80.

95-2, COMPLIED WITH TELEDYNE CONTINENTAL MOTORS MANDATORY SERVICE BULLETIN 100-HOUR/ANNUAL, RECURRING LUBRICATION OF ENGINE CONTROLS AFTER WASHING ENGINE. COMPLIED WITH TORNADO ALLEY TURBO 3 YEAR / 300 HOUR MAGNETO FILTER REPLACEMENT, INSTALLED NEW P/N 1396-2 FILTER. COMPLIED WITH TORNADO ALLEY TURBO **SI08-1**, 50 CLEANING OF CRANKCASE BREATHER FITTING. COMPLIED WITH TORNADO ALLEY TURBO **SB09-01**, 50 HOUR INSPECTION OF THE EXHAUST MANIFOLD FLANGE. COMPLIED WITH TORNADO ALLEY TURBO 450-HOUR "V" BAND CLAMP REPLACEMENT ON RIGHT AND LEFT TURBO'S. AND SAFTIED. C/W 500 HOUR MAGNETO INSPECTION BY INSTALLING LEFT MAGNETO P/N S6RSC-25P S/N D07GA110 AFTER REPAIR BY "AIRCRAFT ELECTRICAL COMPONENTS INC." CRS# S7HR883J PER WO # 50719, TIMED TO ENGINE, LEAK AND FUNCTION CHECKED NORMAL. AND RIGHT MAGNETO P/N S6RSC-25P S/N D07GA132 AFTER REPAIR BY "AIRCRAFT ELECTRICAL COMPONENTS INC." CRS# S7HR883J PER WO # 50720, TIMED TO ENGINE, LEAK AND FUNCTION CHECKED NORMAL. INSTALLED #4 CYLINDER P/N 655932 S/N 13444-1 AFTER REPAIR BY "EAGLE ENGINES" CRS# NO3R717L PER INVOICE # 13444-03-2011, TORQUED BASE NUTS PER TCM SB 96-7, LEAK AND FUNCTION CHECKED NORMAL. INSTALLED #5 CYLINDER P/N 655932 S/N 13444-2 AFTER REPAIR BY "EAGLE ENGINES" CRS# NO3R717L PER INVOICE # 13444-03-2011, TORQUED BASE NUTS PER TCM SB 96-7, LEAK AND FUNCTION CHECKED NORMAL. INSTALLED NEW P/N 22-6850003 S/N 21663 R/H EXHAUST MANIFOLD. INSTALLED NEW P/N 16579-002 #2 AND #4 EGT PROBES, FUNCTION CHECKED NORMAL.

I certify that this Aircraft/Engine/Propeller has been inspected IAW an Annual inspection and was determined to be in an airworthy condition. Signed *Damon Schmidt*

Damon Schmidt

ENTERED



IN ERROR

1903 Embarcadero Road, Palo Alto, CA 94303

650-494-6516 www.advantage-aviation.com

WO: 426 Aircraft: N518BP Tach: 883.8 TSMOH: New TTE: 883.8 Date: 4/27/2011  
Model: TCM IO-550-N S/N: 691339

**Engine Entry**

Completed **25HR Inspection**. Drained oil. Removed and replaced oil filter with new. Examined old oil filter element, no defects noted at this time, installed new filter (p/n: AA48108-2). Serviced engine with 7 quarts Aeroshell 15-W50 oil. Removed, cleaned, gapped and tested spark plug in cylinders #4 and #5. Inspected cylinders for break-in, checked good. Re-installed spark plugs with new gaskets and torqued (p/n: M-674). Ground ran engine, leak and ops check good, no defects noted at this time. All work completed in accordance with Lycoming Operators Manual. -END

This Engine is approved for return to service only for the work performed and listed above.

Samuel Worsham A&P 3424586 *Samuel Worsham*



1903 Embarcadero Road, Palo Alto, CA 94303

650-494-6516 www.advantage-aviation.com

WO: 426 Aircraft: N518BP Tach: 883.8 TSMOH: New TTE: 883.8 Date: 4/27/2011  
Model: TCM IO-550-N S/N: 691339

**Engine Entry**

Completed **25HR Inspection**. Drained oil. Removed and replaced oil filter with new. Examined old oil filter element, no defects noted at this time, installed new filter (p/n: AA48109-2). Serviced engine with 8 quarts Aeroshell 15W-50 oil. Removed, cleaned, gapped and tested spark plug in cylinders #4 and #5. Inspected cylinders for break-in, checked good. Re-installed spark plugs with new gaskets and torqued (p/n: M-674). Ground ran engine, leak and ops check good, no defects noted at this time. All work completed in accordance with Continental Operators Manual. -END

This Engine is approved for return to service only for the work performed and listed above.

Samuel Worsham A&P 3424586 *Samuel Worsham*



Date	Total Time		Time Since Last Overhaul		<b>Engine Service and Maintenance Record</b> Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
	Hrs.	Min.	Hrs.	Min.	

Brought Forw



F. Hobbs 860.5

1903 Embarcadero Road, Palo Alto, CA 94303

650-494-6516 www.advantage-aviation.com

WO: 606 Aircraft: N518BP Tach: 950.2 TSMOH: New TTE: 950.2 Date: 7/22/2011  
Model: TCM IO-550-N S/N: 691339

**Engine Entry**

Completed 50HR Inspection. Drained oil. Removed and replaced oil filter with new. Examined old oil filter element, no defects noted at this time, installed new filter (p/n: AA48109-2). Serviced engine with 8 quarts Aeroshell 15W-50 oil. Removed, cleaned, gapped and tested lower spark plugs. Rotated and re-installed spark plugs with new gaskets and torqued (p/n: M-674). Ground ran engine, leak and ops check good, no defects noted at this time. All work completed in accordance with Continental Operators Manual. -END

This Engine is approved for return to service only for the work performed and listed above.

Samuel Worsham A&P 3424586

*Samuel Worsham*



1903 Embarcadero Road, Palo Alto, CA 94303

650-494-6516 www.advantage-aviation.com

WO: 624 Aircraft: N518BP Tach: 951.6 TTE: 951.6 Date: 7/26/2011  
Model: TCM IO-550-N S/N: 691339

**Engine Entry**

Replaced accessory drive pad gar-loc seal for the AC drive. Reinstalled drive with new gaskets. Ops check and leak checked. All work completed in accordance with Continental Manual. -END

This Engine is approved for return to service only for the work performed and listed above.

James Allen A&P 559294160

*James Allen*



1903 Embarcadero Road, Palo Alto, CA 94303

650-494-6516 www.advantage-aviation.com

WO: 643 Aircraft: N518BP Hobbs: 958.6 Flight Hobbs: 868.9 Date: 8/3/2011  
Model: TCM IO-550-N S/N: 691339

**Engine Entry**

Removed and cleaned #4 spark plugs. Re-worked shielding on #6 lower ignition lead. Removed and cleaned #4 injector. Performed Dye-Pen test for alleged crack in between spark plug and injector. Test was inconclusive. Took picture for reference at next maintenance interval. Installed spark plug with new gasket and torqued. Cleaned all ignition leads. Installed fuel injector with new o-rings and copper gasket, torqued to 65 in-lbs. Run-up leak and ops checked good. All work completed in accordance with Continental Manual. -END

This Engine is approved for return to service only for the work performed and listed above.

Samuel Worsham A&P 3424586

*Samuel Worsham*



1903 Embarcadero Road, Palo Alto, CA 94303

650-494-6516 www.advantage-aviation.com

WO: 730 Aircraft: N518BP Tach: 1009.5 TSMOH: New TTE: 1009.5 Date: 10/13/2011  
Model: TCM IO-550-N S/N: 691339

**Engine Entry**

Completed 50HR Inspection. Drained oil. Removed and replaced oil filter with new. Examined old oil filter element, no defects noted at this time, installed new filter (p/n: CH48108-1). Serviced engine with 7.5 quarts Aeroshell 15W-50 oil. Removed, cleaned, gapped and tested lower spark plugs. Rotated and re-installed spark plugs with new gaskets and torqued (p/n: M-674). Ground ran engine, leak and ops check good, no defects noted at this time. Verified AD's current through AD2010-11-04. All work completed in accordance with Continental Operators Manual. -END

This Engine is approved for return to service only for the work performed and listed above.

Samuel Worsham A&P 3424586

*Samuel Worsham*

Date	Total Time		Time Since Last Overhaul		<b>Engine Service and Maintenance Record</b> Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
	Hrs.	Min.	Hrs.	Min.	

Date 3/20/2012

W/O# 12039



Engine Logbook Entry

CRS AWKR298C

25170 Aviation Ave., Davis, CA 95616

AIRCRAFT: N 518BP

S/N 2683

Tach / Hobbs	1070.5	COMPLETED AN ANNUAL INSPECTION PER FAR 43 APPENDIX "D". ALL WORK DONE IN ACCORDANCE WITH APPLICABLE MANUALS. COMPLIED WITH TAT SYSTEM INSTRUCTIONS FOR CONTINUED AIRWORTHINESS.
Eng TSN	1070.5	
Eng TSO	NA	

CHANGED OIL AND FILTER, CUT AND INSPECT FILTER, NO METAL FOUND. TOOK OIL SAMPLE AND SENT OUT FOR ANALYSIS. SERVICED WITH 7 QTS. AEROSHELL 15W50 OIL. RUN UP, NO LEAKS NOTED. COMPRESSION CHECK: #1- 70/80, #2- 60/80, #3- 64/80, #4- 70/80, #5- 75/80, #6- 70/80. MO=46 COMPLIED WITH TELEDYNE CONTINENTAL MOTORS MANDATORY SERVICE BULLETIN 95-2, 100-HOUR/ANNUAL. RECURRING LUBRICATION OF ENGINE CONTROLS AFTER WASHING ENGINE. COMPLIED WITH FUEL FLOW SET UP PER TCM SID 97-3E, GROUND FUNCTION CHECKED NORMAL. COMPLIED WITH TAT S108-1, 50 HOUR INSPECTION AND CLEANING OF CRANKCASE BREATHER FITTING. COMPLIED WITH TAT SB09-01, 50 HOUR INSPECTION OF THE EXHAUST MANIFOLD FLANGE INSTALLED NEW P/N 22-6850002 S/N 22967 L/H EXHAUST MANIFOLD. COMPLIED WITH TAT MANDATORY SB 10-01, INSPECTION OF HINGE PIN ENDS ON THE ALTERNATE AIR DOOR FOR CRACKS, LOOSE RIVETS AND / OR MISSING RETENTION METHODS WITH NO DEFECTS NOTED. COMPLIED WITH TAT MANDATORY SB 10-02, INSPECTION OF SUPPLEMENTAL TAILPIPE HANGERS, NEW STYLE INSTALLED, NO FURTHER ACTION REQUIRED. COMPLIED WITH TAT SB11-05 AND CIRRUS SB2X-74-01, RHB32S SPARK PLUG REPLACEMENT. INSTALLED 12 NEW SPARK PLUGS P# RHB32E, FUNCTION CHECKED NORMAL. COMPLIED WITH TAT SB11-04, ANNUAL TURBO OIL INLET SCREEN INSPECTION AND CLEANING. COMPLIED WITH TAT S111-03, ANNUAL TURBO SUPPORT ASSEMBLY INSPECTION, INSTALLED NEW P/N 22-6200023 R/H WASTEGATE SUPPORT BRACKET. COMPLIED WITH TAT S111-02, ANNUAL ENGINE DRIVEN FUEL PUMP INSPECTION WITH NO DEFECTS NOTED. COMPLIED WITH TAT S111-01, EXHAUST SYSTEM SLIP JOINT INSPECTION WITH NO DEFECTS NOTED. INSTALLED R/H TURBO P/N 466304-9003 S/N M857180 AFTER OVERHAUL BY "HARTZELL ENGINE TECH" CRS# PQ1383CE-D PER WO# M857180, LEAK AND FUNCTION CHECKED NORMAL. INSTALLED NEW P/N 22-6150020 S/N 22689 L/H TAILPIPE. INSTALLED NEW P/N 642085A17 STARTER ADAPTER, LEAK AND FUNCTION CHECKED NORMAL. INSTALLED STARTER P/N 646275-1 S/N H-L120666 AFTER OVERHAUL BY "HARTZELL ENGINE TECHNOLOGIES" CRS# 1HZR769B PER WO# M852880, FUNCTION CHECKED NORMAL. INSTALLED NEW GASKETS AND TIMED LEFT MAGNETO TO 21 ± .5 DEGREES. OPERATIONAL CHECKED NORMAL.

I certify that this Aircraft/Engine/Propeller has been inspected IAW an Annual inspection and was determined to be in an airworthy condition. Signed Damon Schmidt

Damon Schmidt



1903 Embarcadero Road, Palo Alto, CA 94303

650-494-6516 www.advantage-aviation.com

WO: 1151 Aircraft: N518BP Tach: 1142.5 TSMOH: (new) TTE: 1142.5 Date: 10 August 2012

Model: TCM TO-550-N S/N: 691339

Engine Entry

Completed 50HR Inspection. Drained oil. Took oil sample for analysis. Removed and replaced oil filter with new. Examined old oil filter element, no defects noted at this time, installed new filter, p/n: CH48108-1. Serviced engine with 8 quarts Aeroshell 15W-50 oil. Removed, cleaned, gapped and tested lower spark plugs. Rotated and re-installed spark plugs with new gaskets, p/n: M-674. Ground ran engine, leak and ops check good, no defects noted at this time. -END

This Engine is approved for return to service only for the work performed and listed above.

Charles Harvie A&P 3517275

Charles L Harvie



1903 Embarcadero Road, Palo Alto, CA 94303

650-494-6516 www.advantage-aviation.com

WO: 1151 Aircraft: N518BP Tach: 1142.7 TSMOH: (new) TTE: 1142.7 Date: 13 August 2012

Model: TCM IO-550-N S/N: 691339

Engine Entry

Discrepancy: EGT indication #2 cyl pegged out. Found #2 EGT probe lead shielding chaffed through by exhaust heat shield. Removed EGT probe and replaced with new probe, p/n 16579-002. -END

This Engine is approved for return to service only for the work performed and listed above.

Charles Harvie A&P 3517275

Charles L Harvie

Date

Total Time

Time Since  
Last Overhaul

# Engine Service and Maintenance Record

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

Hrs.

Min.

Hrs.

Min.

Brought Forward



1903 Embarcadero Road, Palo-Alto, CA 94303

650-494-6516 [www.advantage-aviation.com](http://www.advantage-aviation.com)

WO: 1313 Aircraft: N518BP Tach: 1118 TSMOH: New TTE: 1118 Date: 11-14-2012

Model: TCM IO-550-N S/N: 691339

### Engine Entry

Completed Oil change. Drained oil. Removed and replaced oil filter with new. Examined old oil filter element, no defects noted at this time, installed new filter (p/n: CH48108-1). Serviced engine with 7.5 quarts Aeroshell 15W-50 oil. Removed starter Ser# H-L120666. Replaced starter with new PN: 646275-1 ser: H-M102493. All work completed in accordance with Continental Operators Manual. -END

This *Engine* is approved for return to service only for the work performed and listed above.

Chris Lund A&amp;P/AMT 3127640

Date 3/29/2013

W/O# 12758



Engine Logbook Entry

CRS AWKR298C

25170 Aviation Ave., Davis, CA 95616

AIRCRAFT: N 518BP

S/N 2683

Tach / Hobbs 1114.0  
 Eng TSN 1114  
 Eng TSO N/A

COMPLIED WITH ANNUAL INSPECTION PER FAR 43 APPENDIX D. ALL WORK DONE IN ACCORDANCE WITH APPLICABLE MANUALS.  
 COMPLIED WITH DIFFERENTIAL COMPRESSION CHECK PER TCM SERVICE BULLETIN 03-3.  
 COMPRESSION TEST RESULTS: #1- 51/80, #2- 53/80, #3- 49/80 #4- 67/80, #5- 60/80, #6- 70/80. **MASTER ORIFICE AT 45.**  
 DRAINED OIL AND REMOVED FILTER. OIL SAMPLE RECOVERED AND SENT OUT FOR ANALYSIS. OPENED FILTER AND INSPECTED FOR METAL AND DEBRIS. NO DISCREPANCIES NOTED. SERVICED ENGINE WITH 7 QUARTS AEROSHELL **100W ENGINE OIL** AND 1 PINT OF CAMGUARD ENGINE OIL.  
 COMPLIED WITH TELEDYNE CONTINENTAL MOTORS MANDATORY SERVICE BULLETIN **95-2**, 100-HOUR/ANNUAL, RECURRING LUBRICATION OF ENGINE CONTROLS AFTER WASHING ENGINE.  
 INSTALLED NEW POINTS AND CONDENSER IN LEFT AND RIGHT MAGNETO'S. REINSTALLED WITH NEW BASE GASKETS P/N 649954 AND SET MAGNETO TIMING.

*I certify that this Aircraft/Engine/Propeller has been inspected IAW an Annual inspection and was determined to be in an airworthy condition. Signed\_\_\_\_\_*

Shawn Matthies

*The Aircraft and/or component identified above was repaired and inspected IAW FAA regulations and was found airworthy to return to service only for the work performed. Pertinent details of the repair are on file at this agency: Signed:\_\_\_\_\_*

Shawn Matthies

Date 8/6/2013

W/O# 13040



**Engine Logbook Entry**

**AIRCRAFT: N 518BP**

**CRS AWKR298C**

**S/N 2683**

25170 Aviation Ave., Davis, CA 95616

**Tach / Hobbs**

1224.6

CHANGED OIL AND FILTER. INSPECTED OIL FILTER FOR METAL AND DEBRIS IN ELEMENT, NO DISCREPANCIES NOTED. INSTALLED NEW FILTER AND SERVICED ENGINE WITH 8 QUARTS AEROSHELL 100 MINERAL ENGINE OIL.

**Eng TSN**

INSTALLED NEW #2 INTAKE LIFTER. P/N 658088.

**Eng TSO**

INSTALLED REPAIRED #1 AND #2 CYLINDERS P/N 655932, S/N'S 16882-1 AND 16882-2 FROM EAGLE ENGINES, CRS #N03R717L, UNDER INVOICE NO. 16882-07-2013. INSTALLED SERVICEABLE #4 ECI CYLINDER FROM RAM P/N ECC73.1CN, S/N 43029-1. CYL REPAIRED BY EC SERVICES, CRS# AG2R689K, UNDER WO 119778.1. TORQUED CYLINDERS AS PER TCM S/B 96-7C OPERATIONAL RUN UP AND LEAK CHECK GOOD.

***The Aircraft and/or component identified above was repaired and inspected IAW FAA regulations and was found airworthy to return to service only for the work performed.***

***Pertinent details of the repair are on file at this agency: Signed: \_\_\_\_\_***

David Clarke



1903 Embarcadero Road, Palo Alto, CA 94303

650-494-6516 [www.advantage-aviation.com](http://www.advantage-aviation.com)

WO: 1755 Aircraft: N518BP Hobbs: 1348 Flight Hobbs 1252.4 TSMOH: (new) TTE: 1348 Date: 9-9-2013  
Model: TCM TO-550-N S/N: 691339

***Engine Entry***

Change oil and filter with Shell 100W plus, and filter CH48108-1. Filter clear, and sample sent to Blackstone. Tied down loose injector line.- END

**This *Engine* is approved for return to service only for the work performed and listed above.**

**Chris Lund AMT/ A&P 3127640**



1903 Embarcadero Road, Palo Alto, CA 94303

650-494-6516 [www.advantage-aviation.com](http://www.advantage-aviation.com)

WO: 1852 Aircraft: N518BP Hobbs: 1387 Flight Hobbs 1292 TSMOH: (new) TTE: 1387 Date: 11-22-2013  
Model: TCM TO-550-N S/N: 691339

### *Engine Entry*

Change oil and filter with Shell 100W plus, and filter CH48108-1, added cam guard one bottle. Filter clear, and sample sent to Blackstone. Replaced air conditioning drive and bracket, retimed L/H mag to engine. Cleaned plugs, gapped, and installed new plug rings.

This *Engine* is approved for return to service only for the work performed and listed above.

Chris Lund AMT/ A&P 3127640



# ABSOLUTE AERO

MAINTENANCE

22005 Skywest Drive, Hayward, CA 94541 · 510 782-6591

**ENGINE ENTRY**

WORK ORDER: **375** AIRCRAFT: **N518BP** HOBBS: **1431.6** TSOH: **N/A** TTE: **1431.6**

DATE: **05/01/2014**

MODEL: **Continental IO-550-N** S/N: **691339**

Removed both magnetos for 500 hour inspection by Aircraft Electrical Components (CRS# S7HR883J, WO# 63857 & 63858). Reinstalled repaired magnetos (P/N: S6RSC-25P, R/H S/N: D07GA132, L/H S/N: D07GA110) with new gaskets (P/N: 649954) and timed to engine. Compression results: #1-72/80, #2-72/80, #3-61/80, #4-74/80, #5-51/80, #6-64/80, M.O. 42/80. Drained and sampled oil. Removed and replaced oil filter with new (P/N: AA48108-2). Examined old oil filter element and suction screen, no contaminants found. Serviced engine with 8 quarts of Aeroshell W100 oil and one pint of ASL Camguard. Cleaned, gapped and tested spark plugs. Replaced one spark plug with new (P/N: URHB32E). Rotated and re-installed spark plugs with new gaskets (P/N: M674). Ground ran engine, leak and ops check good. No defects noted at this time. Verified AD's current through AD 2014-05-29. All work completed in accordance with Cirrus SR22 and Continental Service Manuals. -END

**I certify that this engine has been inspected in accordance with FAR 43 Appendix D (Annual Inspection) and has been determined to be in an airworthy condition.**

**Christer Hagghult A&P / IA 2897856**



ENGINE MODEL: IO-550N  
ENGINE S/N: 691339  
REG. NO: N518BP  
WORK ORDER: 2128

## Rossi Aircraft, Inc.

Repair Station No. ZRSR378L  
1903 Embarcadero Rd  
Palo Alto, CA 94303  
Phone: 650-493-3326

DATE: 10/07/14  
A/C TSN: 1469.1  
ENG TT: 1469.1  
TSMOH: 1469.1  
HOBBS: 1469.1

### Engine Entries

Drained oil and serviced with 7 qts. of Aeroshell 100W oil, 1 pt. of Camguard and installed new CH48108-1 oil filter. Inspected old filter, solvent washed engine, run and leak check good.... Performed a compression test, cleaned and gapped sparkplugs. Compression Test: #1-72/80, #2-68/80, #3-74/80, #4-78/80, #5-72/80, #6-66/80:.... All work completed per Savvy Aircraft Maintenance Oil change guide Service item #'s 1.1 through 3.4.

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### Maintenance Release

The aircraft and/or component(s) on N518BP was repaired and inspected in accordance with current FARs rules of the Federal Aviation Regulations and was found Airworthy for return to service. Pertinent details of the repair are on file at this repair station under Work Order No. 2128, Dated 10/2/2014.

DATE: 10-02-14 SIGNED: 

Work Order: 2128

Rossi Aircraft Inc.  
Certified Repair Station No. ZRSR378L

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ENGINE MODEL: IO-550N  
ENGINE S/N: 691339  
REG. NO: N518BP  
WORK ORDER: 2128

## Rossi Aircraft, Inc.

Repair Station No. ZRSR378L  
1903 Embarcadero Rd  
Palo Alto, CA 94303  
Phone: 650-493-3326

DATE: 10, 02 14  
A/C TSN: 1469.1  
ENG TT: 1469.1  
TSMOH: 1469.1  
HOBBS: 1469.1

### Engine Entries

Drained oil and serviced with 7 qts. of Aeroshell 100W oil, 1 pt. of Camguard and installed new CH48108-1 oil filter. Inspected old filter, solvent washed engine, run and leak check good.... Performed a compression test, cleaned and gapped sparkplugs. Compression Test: #1-72/80, #2-68/80, #3-74/80, #4-78/80, #5-72/80, #6-66/80:... All work completed per Savvy Aircraft Maintenance Oil change guide Service item #'s 1.1 through 3.4.

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### Maintenance Release

The aircraft and/or component(s) on N518BP was repaired and inspected in accordance with current FARs rules of the Federal Aviation Regulations and was found Airworthy for return to service. Pertinent details of the repair are on file at this repair station under Work Order No. 2128, Dated 10/2/2014.

DATE: 10-02-14

SIGNED: 

Work Order: 2128

Rossi Aircraft Inc.  
Certified Repair Station No. ZRSR378L

Printed by EBis 3 (datcomedia.com)

Date 1/8/2015

W/O# 14123



**Engine Logbook Entry** AIRCRAFT: N 518BP

**CRS AWKR298C**

**S/N 2683**

25170 Aviation Ave., Davis, CA 95616

Tach /  
Hobbs

1405.6

CHANGED OIL AND FILTER. INSPECTED OIL FILTER FOR METAL AND DEBRIS IN ELEMENT, NO DISCREPANCIES NOTED. OIL SAMPLE RECOVERED AND SENT FOR ANALYSIS. INSTALLED NEW FILTER AND SERVICED ENGINE WITH AEROSHELL 100W ENGINE OIL. ADDED 1 PINT CAMGUARD ENGINE OIL ADDITIVE. RUN UP AND LEAK CHECK NORMAL.

COMPLIED WITH SAVVY AIRCRAFT MAINTENANCE 50-HR OIL CHANGE INSPECTION CHECKLIST. REINSTALLED ALTERNATE AIR DUCT AFTER WELD REPAIR.

***The Aircraft and/or component identified above was repaired and inspected IAW FAA regulations and was found airworthy to return to service only for the work performed.***

***Pertinent details of the repair are on file at this agency: Signed:***

  
Shawn Matthies AWKR298C

# EAGLE ENGINES

A Division of Ameritech Industries, Inc.

F.A.A. Repair Station number N03R717L

20208 Charlanne Dr., Redding, California 96002 U.S.A.

Work accomplished Installed new exhaust valve and guide, 3  
angle cut valve seats, Refaced valves, deglazed bore, fit new  
rings per CMF SID97-40.

Nothing follows.

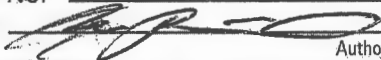
The aircraft and/or component identified above was replaced and inspected in accordance with Federal Aviation regulations and is approved for return to service.

Pertinent details are on file at this agency under Work Order No.

Invoice No. 19570-05-2015

Dated 05/28/2015

Signed



Authorized Individual



# ABSOLUTE AERO

MAINTENANCE

22005 Skywest Drive, Hayward, CA 94541 · 510 782-6591

**ENGINE ENTRY**

WORK ORDER: **723** AIRCRAFT: **N518BP** HOBBS: **1532.3** TSOH: **N/A** TTE: **1532.3**

DATE: **06/04/2015**

MODEL: **Continental IO-550-N** S/N: **691339**

Removed the #5 cylinder for repair by Eagle Engines (CRS# N03R717L, WO# 19570-05-2015). Reinstalled repaired cylinder (P/N: 655932, S/N: 19570-1) with new gaskets and piston pin (P/N: SA630046). Replaced eleven spark plugs (P/N: URHB32E), and all twelve rocker cover gaskets (P/N: RG-632459) with new. Compression results: #1-74/80, #2-59/80, #3-66/80, #4-76/80, #5-73/80, #6-58/80, M.O.: 45/80. Drained and sampled oil. Removed and replaced oil filter with new (P/N: AA48108-2). Examined old oil filter element, no contaminants found. Serviced engine with 8 quarts of Phillips 20W50 Type M oil. Cleaned, gapped and tested spark plugs. Rotated and re-installed spark plugs with new gaskets (P/N: M674). Ground ran engine in accordance with TCM SB M89-7R1 procedures; leak and ops check good. No defects noted at this time. Verified AD's current through AD 2014-05-29. All work completed in accordance with Cirrus SR22 and Continental IO-550 Maintenance Manuals. -END

**I certify that this engine has been inspected in accordance with FAR 43 Appendix D (100 Hour Inspection) and has been determined to be in an airworthy condition.**

**Brandon Thompson A&P / IA 3212565**



# ABSOLUTE AERO

MAINTENANCE

22005 Skywest Drive, Hayward, CA 94541 · 510 782-6591

**ENGINE ENTRY**

WORK ORDER: **825** AIRCRAFT: **N518BP** HOBBS: **1469.7** TSOH: **N/A** TTE: **1469.7**

DATE: **09/30/2015**

MODEL: **Continental IO-550-N** S/N: **691339**

Removed cylinders #3 & #6. Cylinder #3 (P/N: 658178A, S/N: AC13BB350) repaired by Tim's Aircraft Engines (CRS# T22R537Y, WO# 9445). Cylinder #6 replaced with new (P/N: 658178A1, AC14JA389). Installed cylinder assemblies with new gaskets. Replaced the following parts with new: #3 intake lifter (P/N: 658088), #6 intake lifter (P/N: 658088) and exhaust lifter (P/N: 658077), one spark plug (P/N: URHB32E), propeller governor gasket (P/N: AA9144), R/H FWD waste gate gasket (P/N: FGO120830), two upper deck collars (P/N: 633958-5) and six seals (P/N: 633958-3), six exhaust gaskets (P/N: 652458), and twenty four exhaust nuts (P/N: MS20500-428). Drained oil. Removed and replaced oil filter with new (P/N: AA48108-2). Examined old oil filter element, no contaminants found. Serviced engine with 7 quarts of Phillips 20W50 Type M oil. Cleaned, gapped and tested spark plugs. Rotated and re-installed spark plugs with new gaskets (P/N: M674). Ground ran engine IAW TCM SB M89-7R1; leak and ops check good. No defects noted at this time. All work completed in accordance with Cirrus SR22 and Continental IO-550 Maintenance Manuals. -END

**This engine is approved for return to service, for only the work performed.**

**Brandon Thompson A&P 3212565**

ENGINE MODEL: IO-550N  
ENGINE S/N: 691339  
REG. NO: N518BP  
WORK ORDER: 2494

## Rossi Aircraft, Inc.

Repair Station No. ZRSR378L  
1903 Embarcadero Rd  
Palo Alto, CA 94303  
Phone: 650-493-3326

DATE: 1/28/2016  
A/C TSN: 1489.3  
ENG TT: 1489.3  
TSMOH:  
HOBBS: 1489.3

### Engine Entries

Drained oil and serviced with 8 qts. of Aeroshell 100W oil and installed new CH48108-1 oil filter. Inspected old filter, solvent washed engine, run and leak check good.

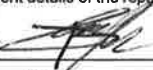
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### Maintenance Release

The aircraft and/or component(s) on N518BP was repaired and inspected in accordance with current FARs rules of the Federal Aviation Regulations and was found Airworthy for return to service. Pertinent details of the repair are on file at this repair station under Work Order No. 2494, Dated 1/28/2016.

DATE: 1/28/2016

SIGNED



Rossi Aircraft Inc.  
Certified Repair Station No. ZRSR378L

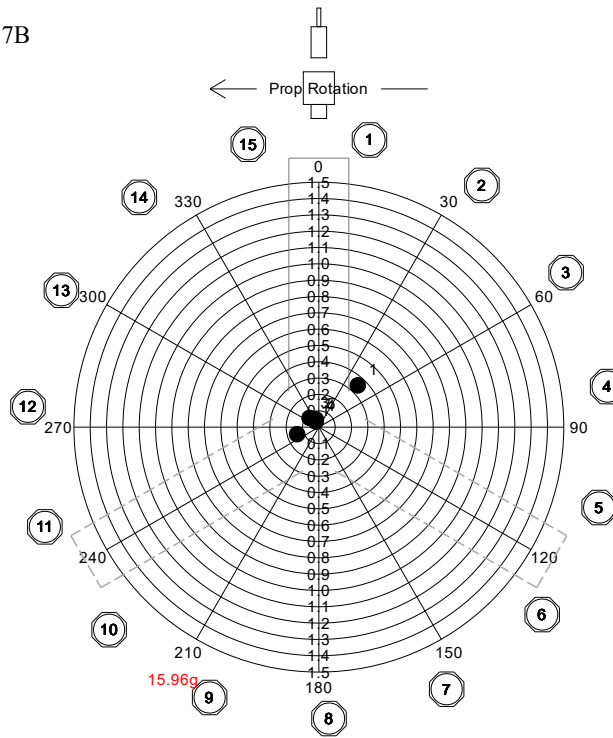
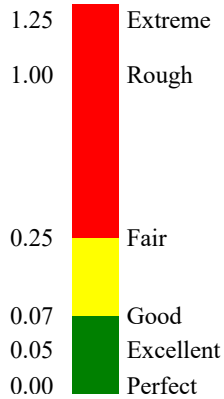
Work Order: 2494

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Aircraft: N518BP

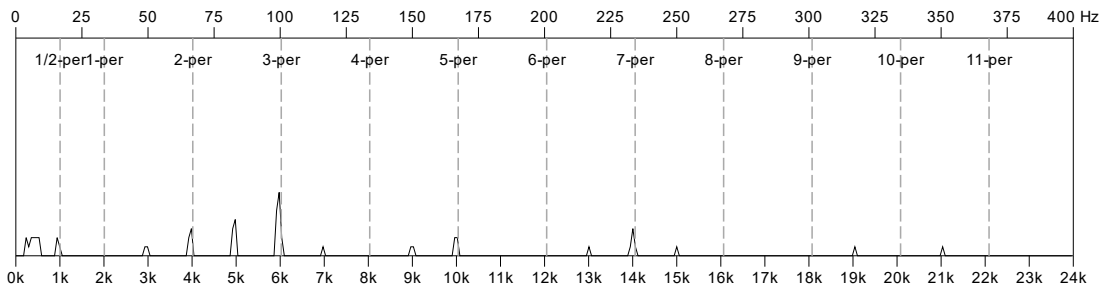
Propeller: Hartzell PHC-J3YF-1N, S/N: FP6017B  
Engine: Continental IO-550-N

Date: 07/22/2016



Final Reading: **0.05 IPS**  
Final Weights: **15.96g@202deg**

Brandon Thompson A&P 3212565



Run #	Magnitude (IPS)	Phase (degrees)	Trim Wt 1 (grams)	Trim Wt 1 (degrees)	Trim Wt 2 (grams)	Trim Wt 2 (degrees)	Comments
1	0.35	43	22.63g	226deg	--	--	
2	0.14	252	11.70g	226deg	4.88g	202deg	
3	0.08	315	13.48g	202deg	2.52g	226deg	
4	0.04	331	15.96g	202deg	--	--	
5	0.05	339	--	--	--	--	Final Value





# ABSOLUTE AERO

MAINTENANCE

22005 Skywest Drive, Hayward, CA 94541 · 510 782-6591

**ENGINE ENTRY**

WORK ORDER: **1073** AIRCRAFT: **N518BP** FL HOBBS: **1502.4** TSOH: **N/A** TTE: **1502.4**

DATE: **07/22/2016**

MODEL: **Continental IO-550-N** S/N: **691339**

Compression results: #1: 68/80, #2: 64/80, #3: 74/80, #4: 70/80, #5: 66/80, #6: 72/80, M.O. 43/80. Drained and sampled oil. Removed and replaced oil filter with new (P/N: AA48108-2). Examined old oil filter element, no contaminants found. Serviced engine with 7 quarts of Aeroshell W100 oil and 1 pint of ASL Camguard. Cleaned, gapped and tested spark plugs. Rotated and re-installed spark plugs with new gaskets (P/N: M674). Set fuel pressures in accordance with TCM SID97-3G. Ground ran engine, leak and ops check good. No defects noted at this time. Verified AD's current through FAA AD biweekly 2016-14. All work completed in accordance with Cirrus SR22 and Continental IO-550 Maintenance Manuals.

**I certify that this engine has been inspected in accordance with FAR 43 Appendix D (100 Hour Inspection) and has been determined to be in an airworthy condition.**

**Peter E McClure A&P / IA 3657637**



10 NOV 2016

Tach: 1538.4

N#: N518BP

Type: IO-550-N50

S/N: 691339

Performed oil change; drained oil and removed filter. Obtained oil sample and sent to Blackstone for analysis. Cut filter and inspected medium, no discrepancies noted. Installed 7 QT of Philips 20W50 and Tempest oil filter AA48108. Ran engine, leak check good. -END

A handwritten signature in dark ink, appearing to read "Jeffrey Fay", with a long, sweeping horizontal stroke extending to the right.

Jeffrey Fay 2679315A&P

Date 9/1/2017

W/O# 16159



Engine Logbook Entry AIRCRAFT: N 518BP

CRS AWKR298C

S/N 2683

25170 Aviation Ave., Davis, CA 95616

COMPLIED WITH AN ANNUAL INSPECTION THIS DATE PER FAR 43 APPENDIX D. ALL WORK COMPLETED IN ACCORDANCE WITH APPLICABLE MANUALS.

Tach / Flight 1578.7 COMPLIED WITH DIFFERENTIAL COMPRESSION CHECK PER CMI STANDARD PRACTICES

Eng TSN 1578.7 MAINTENANCE MANUAL, COMPRESSION TEST RESULTS: #1- 64/80, #2- 61/80, #3- 72/80, #4- 71/80, #5- 68/80, #6- 70/80. MASTER ORIFICE: 43/80.

Eng TSO N/A DRAINED OIL AND REMOVED FILTER. OPENED FILTER AND INSPECTED FOR METAL AND DEBRIS; NO DISCREPANCIES NOTED. OIL SAMPLE RECOVERED AND SENT OUT FOR ANALYSIS. INSTALLED NEW FILTER AND SERVICED ENGINE WITH AEROSHELL 100W ENGINE OIL AND 1 PINT OF CAMGUARD.

TTAF 1578.7 COMPLIED WITH 100-HOUR/ANNUAL, RECURRING LUBRICATION OF ENGINE CONTROLS AFTER WASHING ENGINE. COMPLIED WITH 300 HR / ANNUAL FUEL NOZZLE CLEANING. REINSTALLED RIGHT EXHAUST RISER P/N 22-6150019 AFTER REPAIR BY DAWLEY AVIATION CRS# NJ5R069N UNDER W.O. 116129. INSTALLED NEW LEFT & RIGHT CYLINDER DRAIN MANIFOLDS. REMOVED PROP AND AND CRANKSHAFT SEAL. CLEANED CORROSION FROM CRANKSHAFT. INSPECTED AND INSTALLED NEW CRANKSHAFT SEAL, PROP O-RING AND REINSTALLED PROPELLER. INSTALLED NEW CAPACITOR, LEFT MAGNETO, SWAPPED LEFT AND RIGHT MAGNETO'S, SET TIMING TO SPEC.

***The Aircraft and/or component identified above was repaired and inspected IAW FAA regulations and was found airworthy to return to service only for the work performed***

***Pertinent details of the repair are on file at this agency: Signed:***

Shawn Matthies AWKR298C

***I certify that this Aircraft/Engine/Propeller has been inspected IAW an Annual inspection and was determined to be in an airworthy condition. Signed***

Shawn Matthies AWKR298C