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# ENGINE LOG BOOK






# ENGINE WARRANTY REGISTRATION

## Continental Motors, Inc.

This is your **ENGINE WARRANTY/RUST and CORROSION AWARENESS PROGRAM REGISTRATION** form. It is essential that it be properly completed and returned to CMI Warranty Department immediately. This will expedite processing of the claim should your engine require repair or replacement as provided in the appropriate warranty policy. The engine owner can register on-line for free product and service information at <http://continentalmotors.aero> or contact a Factory Service Representative at 1-888-826-5465 or 1-251-436-8299.

### PLEASE COMPLETE AND RETAIN FOR OWNER'S RECORD

	
Owner's Name	<u>FIND PLANE COMPANY</u>
Address	<u>34730 CAKLAND</u>
City	<u>FARMINGTON</u>
State/Province	<u>MI</u>
Country	<u>USA</u>
Postal Code	<u>48335</u>

Engine Model	<u>LT510360EB3B</u>	Serial #	<u>1009579</u>
Date Installed	<u>01/24/2014</u>	Tach Time	<u>625.7</u>
Aircraft Model	<u>PA 34-2007</u>	Serial #	<u>34-7870004</u>
Year Manufactured	<u>1978</u>	Aircraft Total Hours	<u>5711.9</u>
What engine is being replaced?			
Serial #	<u>266174R</u>	Model	<u>LT510360EB3B</u>
Hours	<u>17024</u>		

Continental Motors Internet Service contains the Instructions for Continued Airworthiness

STM D910  
PROHIBITED

engine incorporates all changes required by applicable Airworthiness Directives and Continental Motors Service Bulletins.

*Thomas Howard*

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AVANTGARDE AVIATION, INC.

RH ENGINE LOG ENTRY N47815

01/24/2014, 100 HOUR/ANNUAL INSPECTION, TACH 625.7, TOTAL TIME REMAN [0]

INSTALLED FACTORY REMAN ENGINE USING NEW LORD MOUNTS, REPLACED ALL OIL FUEL AND INSTRUMENT HOSES FWD OF FIREWALL

OIL USED PHILLIPS 20W50M,

LUBED EXHAUST SLIP JOINTS, TORQUE CHECKED ENGINE HARDWARE, SERVICED PROP DOME PSI, REPLACED AIR FILTER, CLOSED SEVERAL GAPS IN ENGINE BAFFLES, INSTALLED OIL COOLER WINTER PLATE.

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

WORK ORDER #21246 JOHN F JOHNS 1519936A&I

*John F. Johns*

AVANTGARDE AVIATION, INC.

RH ENGINE LOG ENTRY N47815

3/18/2014, OIL AND FILTER CHANGE, TACH 654.6, OIL USED PHILLIPS 20W50M, CUT FILTER OPEN NO METAL FOUND,

COMPRESSION TEST #1 72/80, #2 72, #3 72, #4 73, #5 78, #6 70.

REPLACED SHIPS EGT PROBE

REUBEN HERNANDEZ A&P 3256114

*Reuben Hernandez*

AVANTGARDE AVIATION, INC.

RH ENGINE LOG ENTRY N47815

8-28-2014, OIL AND FILTER CHANGE, TACH 702.2, OIL USED AERO SHELL 15W50, CUT FILTER OPEN NO METAL FOUND, INSTALLED NEW SHADIN FUEL FLOW TRANSDUCER P/N 68051-1,

REPLACED FUEL PUMP WITH NEW FROM TCM P/N R-649368-64A1 S/N B14GA176R, CLEANED FUEL SCREEN AND FLUSHED SYSTEM,

JOHN F JOHNS A&P 1519936

*John F. Johns*

Make: Continental Motors

Model: LTSIO-360-EB(3)

Serial No.: 1009579



Date: 10/29/2014

Hobbs Time: 3569.9

Tach Time: 744.4

FACTORY SERVICE CENTER

Continental Motors Factory Service Center, 8600 County Road 32, Fairhope, AL 36532 251-990-5080 FAA Repair Station No. 9CER853B

The work performed as described below has been inspected in accordance with current regulations of the Federal Aviation Administration and found to be in airworthy condition with respect to the work performed.

**Work Performed Right:** Adjusted fuel injection system using data from CMI SID97-3F and the Piper PA-34-200T Maintenance Manual. Completed ground operational and flight checks. ---END---

Authorized Signature for Repair Station 9CER853B:

*Kenneth May*

Details of the work performed is on file under Work Order No. 6009

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

Make: Continental Motors  
Model: LTSIO-360-EB(3)  
Serial No.: 1009579



Date: 10/29/2014  
Tach Time: 747.6

**FACTORY SERVICE CENTER**

Continental Motors Factory Service Center, 8600 County Road 32, Fairhope, AL 36532 251-990-5080 FAA Repair Station No. 9CER853B

The work performed as described below has been inspected in accordance with current regulations of the Federal Aviation Administration and found to be in airworthy condition with respect to the work performed.

**Work Performed Right:** Drained oil and installed new AA48108-2 filter. Serviced engine with 8 quarts of Aeroshell 15W50 oil. Completed ground operation leak check. ---END---

Authorized Signature for Repair Station 9CER853B:

*Kenneth May*

Details of the work performed is on file under Work Order No. 6009

<p>AVANTGARDE AVIATION, INC. RH ENGINE LOG ENTRY N47815 11-07-2014, TACH 755.9, SWAPPED SHADIN FUEL FLOW TRANSDUCER P/N 68051-1 AFTER BENCH CHECK AND K FACTOR CONFIRMED AT 29.8 BY SHADIN SEE YELLOW TAG, SWAPPED PRIMER VALVE TO LH ENGINE, FLUSHED FUEL SYSTEM AND INSTALLED GAMI KIT GT360-12D S/N 24164 IAW STC# SE094001SC SEE 337 THIS DATE. JOSEPH STEWART A&amp;P 3690287 <i>Joseph Stewart</i></p>					
<p>AVANTGARDE AVIATION, INC. RH ENGINE LOG ENTRY N47815 12-18-2014, TACH 785.5, INSTALLED OIL COOLER WINTER PLATE. RICHARD LAVOIE A&amp;P 3699192 <i>Richard Lavoie</i></p>					
2-15-15	TACH TIME	790.8	ENGINE TIME SERM:	165.1	PERFORMED ANNUAL INSPECTION IN ACCORDANCE WITH PIPER PA 34-200T SERVICE MANUAL AND FAR PART 43 APPENDIX D. THE FOLLOWING MAINTENANCE WAS PERFORMED: COMPRESSION TEST: 1) 73/80 2) 77/80 3) 74/80 4) 73/80 5) 75/80 6) 75/80. CHANGED ENGINE OIL AND OIL FILTER. INSTALLED CH48108-1 OIL FILTER AND SERVICED ENGINE WITH 8 QUARTS AEROSHELL 15W50 OIL. INSPECTED OLD OIL FILTER - NO DISCREPANCIES NOTED. CLEANED, GAPPED AND ROTATED SPARK PLUGS. INSPECTED AND CLEANED FUEL INJECTOR NOZZLES. INSPECTED ENGINE MOUNT, FIREWALL AND STRUCTURE. CHECKED MAGNETO-TO-ENGINE TIMING. INSPECTED INTAKE AND

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

Carried forward →

EXHAUST SYSTEMS. INSPECTED TURBO CHARGER, WYE PIPE AND WASTE GATE ASSEMBLY. INSPECTED MAGNETOS, VACUUM PUMP, OIL COOLER, STARTER, ALTERNATOR, FUEL INJECTION SERVO, FUEL PUMP, PROPELLER GOVERNOR, AIR BOX, ALTERNATE AIR DOOR, TACH DRIVE, SPARK PLUG LEADS AND CYLINDER ASSEMBLIES. INSPECTED ALL ELECTRICAL, WIRING AND FLUID LINES. INSPECTED AND LUBRICATED ALL ENGINE CONTROLS. PERFORMED ENGINE RUN-UP AND LEAK CHECK. ALL TEMPERATURES AND PRESSURES NORMAL. WASHED ENGINE. CHECKED AD'S THROUGH BI-WEEKLY 2015-04. NO NEW OR RETURNING AD'S DUE AT THIS TIME AND DATE. I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION

*Eugene* A&P 385847988 IA.

6-11-15 TACH TIME: 821.1 REMOVED OIL COOLER WINTERIZATION PLATE.

*Eugene* A&P 385847988 IA.

7-27-15 TACH TIME: 871.8 CHANGED ENGINE OIL AND OIL FILTER. INSTALLED NEW OIL FILTER PN: CH48108-1 AND SERVICED ENGINE WITH 8 QUARTS AEROSHELL 15W50 OIL. INSPECTED OLD OIL FILTER - NO DISCREPANCIES NOTED. WASHED ENGINE. PERFORMED ENGINE RUN-UP AND LEAK CHECK.

*Eugene* A&P 385847988 IA

9/8/2015 N47815 Right engine Tach 924.4, Oil and filter change, serviced engine with 8 quarts of Aeroshell 15W50 and a AA48108-2 filter. Installed new EGT probe on #6 cylinder. Run-up leak check okay. The work on the Aircraft/component identified above was accomplished in accordance with the current Federal Aviation Regulations and is approved for return to service. -END-  
AP 2725134 Matt Lahti

12/7/2015 N47815 Right engine Tach 984.3, Oil and filter change, serviced engine with 8 quarts of Aeroshell 15W50 and a CH48108-1 filter. Installed winterization plate on oil cooler. Run-up leak check okay. The work on the Aircraft/component identified above was accomplished in accordance with the current Federal Aviation Regulations and is approved for return to service. -END-  
AP 2725134 Matt Lahti


Date	Total Time		Time Since Last Overhaul		<i>Engine Service and Maintenance Record</i>  Record maintenance actions including engine part removal and installation and compliance with inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
	Hours	Min	Hours	Min	
Carried forward →					
5-27-17	TACH	TIME: 1344.7	CHANGES ENGINE OIL AND OIL FILTER. INSTALLED NEW OIL FILTER P/N: AA48108-2 AND SERVICED ENGINE WITH 8 QUANTS AEROSHELL 15W50 OIL. INSPECTED OLD OIL FILTER - NO DISCREPANCIES NOTED. PERFORMED ENGINE RUN-UP AND LEAK CHECK. ALL TEMPERATURES AND PRESSURES NORMAL. ADJUSTED OIL PRESSURE RELIEF VALVE.		
			[Signature] A&P 385847988 IA.		
8-1-17	TACH	TIME: 1382.8	CHANGES ENGINE OIL AND OIL FILTER. INSTALLED NEW OIL FILTER P/N: CH48108-1 AND SERVICED ENGINE WITH 8 QUANTS AEROSHELL 15W50 OIL. INSPECTED OLD OIL FILTER - NO DISCREPANCIES NOTED. PERFORMED LEAK CHECK AND ENGINE RUN-UP. ALL TEMPERATURES AND PRESSURES NORMAL. INSPECTED OIL PRESSURE RELIEF VALVE. ADJUSTED OIL PRESSURE RELIEF VALVE.		
			[Signature] A&P 385847988 IA.		

09/16/2017 Right tach: 1449.3

Drained and serviced engine oil with 8 qts of Aeroshell 15W50. Replaced oil filter with a CH48108-1. Inspected filter and found clean.

Gregory E. Smith 369544480 IA

*Gregory E. Smith*

12/11/2017 Right tach: 1503.5

Drained and serviced engine oil with 8 qts of Aeroshell 15W50. Replaced oil filter with a CH48108-1. Inspected filter and found clean.

Gregory E. Smith 369544480 IA

*Gregory E. Smith*

2/14/2018 Right tach: 1549.0

Drained and serviced engine oil with 8 qts of Aeroshell 15W50. Replaced oil filter with a AA-48108-2. Inspected filter and found clean.

Gregory E. Smith 369544480 IA

*Gregory E. Smith*

3-17-18	TACH	TIME:	1577.3	ENGINE TFRM: 951.6 PERFORMED ANNUAL INSPECTION IN ACCORDANCE WITH A&P PA34-200T SERVICE MANUAL AND CAR PART 43 APPENDIX D. THE FOLLOWING MAINTENANCE WAS PERFORMED: COMPRESSION TEST: 1) 75/80 2) 75/80 3) 70/80 4) 65/80 5) 75/80 6) 74/80. CHANGED ENGINE OIL AND OIL FILTER. INSTALLED NEW OIL FILTER P/N: AA48108-2 AND SERVICED ENGINE WITH 8 QUANTS AEROSHELL 15W50 OIL. INSPECTED OLD OIL FILTER - NO DISCREPANCIES NOTED.	
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Date	Total Time		Time Since Last Overhaul		Engine Service and Maintenance Record	
	Hours	Min	Hours	Min		
Record maintenance actions including engine part removal and installation and compliance with inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins						
Carried forward →						
					CLEANED, GRAPED AND ROTATED SPARK PLUGS. CLEANED AND INSPECTED FUEL INJECTION NOZZLES. CLEANED AND REGENERATED AIR FILTER. INSPECTED ENGINE MOUNT, FIRE WALL AND STRUCTURE. CHECKED MAGNETO-TO-ENGINE TIMING. INSPECTED INTAKE AND EXHAUST SYSTEMS. INSPECTED TURBO CHARGER, WAKE PIPE AND WASTE GATE. INSPECTED MAGNETOS, VACUUM PUMP, AIR BOX, ALTERNATE AIR DOOR, STARTER, ALTERNATOR, OIL COOLER, FUEL INJECTION SERVO, FUEL PUMP, PROPORTION COUPLER, TACH DRIVE, SPARK PLUG LEADS AND CULINDER ASSEMBLIES. INSPECTED ALL ELECTRICAL, WIRING AND FLUID LINES. INSPECTED AND LUBRICATED ALL ENGINE CONTROLS. PERFORMED ENGINE RUN-UP AND LEAK CHECK. WASHED ENGINE. ALL TEMPERATURES AND PRESSURES NORMAL. CHECKED AD'S THROUGH BI-WEEKLY 2018-06. NO NEW OR RETURNING AD'S DUE AT THIS TIME AND DATE. I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION <i>Gregory E. Smith</i> A&P 365847988 IA.	
5-18-18	TACH TIME: 1626.2				INSTALLED NEWLY OVERHAULED ALTERNATOR P/N: ALX-9525B2, SN: H-A102223. INSTALLED NEW VOLTAGE REGULATOR P/N: B-00288-1, SN: BOP60807. CHANGED ENGINE OIL AND OIL FILTER. INSTALLED NEW OIL FILTER P/N: AA48108-2 AND SERVICED ENGINE WITH 8 QUARTS AEROSHELL 100W. (INSPECTED OLD OIL FILTER. NO DISCREPANCIES NOTED. PERFORMED ENGINE RUN-UP AND LEAK CHECK. <i>Gregory E. Smith</i> A&P 365847988 IA.	
6/14/2018 RT Tach 1671.7 Drained and serviced engine oil with 8qts of Aeroshell W100 and replaced oil filter with a AA48108-2. Adjusted oil pressure regulator 1/2 turn CW (5psi). Gregory E. Smith A&P 369544480 <i>Gregory E. Smith</i>						
7-8-18	RIGHT TACH: 1726.2				CHANGED ENGINE OIL AND OIL FILTER. INSTALLED NEW OIL FILTER P/N: AA48108-2 AND SERVICED ENGINE WITH 8 QUARTS AEROSHELL 100W AD OIL. INSPECTED OLD OIL FILTER - NO DISCREPANCIES NOTED. PERFORMED ENGINE RUN-UP AND LEAK CHECK. <i>Gregory E. Smith</i> A&P 365847988 IA.	

Date	Total Time		Time Since Last Overhaul		Engine Service and Maintenance Record
	Hours	Min	Hours	Min	
Carrie	10/12/2018 RH tach: 1828.8				Record maintenance actions including engine part removal and installation and compliance with inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
	Drained and serviced engine oil with 8 qts of Aeroshell 15W50. Replaced oil filter with a AA48108-2. Inspected filter and found clean.				
	Gregory E. Smith 369544480 IA				
	<i>Gregory E. Smith</i>				
2-18-19	TACH TIME: 1871.4 ENGINE TSPRM: 1245.7 PERFORMED ANNUAL INSPECTION IN ACCORDANCE WITH PIPER PA24-200T SERVICE MANUAL AND CAR PART 43, APPENDIX D. THE FOLLOWING MAINTENANCE WAS PERFORMED:				
	COMPRESSION TEST: 1) 66/80 2) 73/80 3) 77/80, 4) 68/80 5) 64/80 6) 75/80. INSTALLED NEWLY OVERHAULED CYLINDER FROM HANSON ENGINE SERVICE IN #3 POSITION USING ALL NEW GASKETS AND SEALS. CHANGED ENGINE OIL AND OIL FILTER. INSTALLED NEW OIL FILTER P/N: AA48108-2 AND SERVICED ENGINE WITH 8 QUARTS PHILLIPS 20W50 STRAIGHT MINERAL OIL. INSPECTED OLD OIL FILTER - NO DISCREPANCIES NOTED. INSPECTED AND CLEARED CHANGEOVER AIR FILTER. INSPECTED AND CLEARED FUEL INJECTOR NOZZLES. CLEARED, OILED AND ROTATED SPARK PLUGS. INSPECTED ENGINE MOUNT, FIREWALL AND SMOOTHER. CHECKED MAGNETO-TO-ENGINE TIMING. INSPECTED INTAKE AND EXHAUST SYSTEMS. INSPECTED TURBO CHARGER, WHEAT AND WASTE GATE ASSEMBLY. INSPECTED MAGNETO, VACUUM PUMP, ALTERNATOR, STATOR, ALTERNATE AIR COOL, OIL COOLER, FUEL INJECTOR SERVO, FUEL PUMP, FUEL DISTRIBUTOR, PROPELLER GOVERNOR, TACH DRIVE, SPARK PLUG LEADS AND CANDLE ASSEMBLIES. INSPECTED ALL ENGINE BARRIE, FLEXIBLE BARRIE MATERIAL AND ENGINE COUPLER. INSPECTED ALL ELECTRICAL, WIRING AND FLUID LINES. INSPECTED AND LUBRICATED ALL ENGINE CONTROLS. WASHED ENGINE. PERFORMED ENGINE RUN-UP AND LEAK CHECK. ALL TEMPERATURES AND PRESSURES NORMAL. CHECKED AD'S THROUGH BIWEEKLY 2019-DA. NO NEW OR RECURRING AD'S DUE AT THIS TIME AND DATE. I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION.				
	<i>Gregory E. Smith</i> A&P 385847988 IA				
	3/22/2019 RT tach: 1893.7				
	Replaced RT engine pressure pump with a Rapco p/n 442CW, s/n 182646.				
	I certify this aircraft to be air worthy and return to service.				
	Gregory E. Smith A&P369544480 IA				
	<i>Gregory E. Smith</i>				



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

MARINE CITY AVIATION

Date: Apr 19, 2019

Tach time: 1909.6 (RT Engine)

N47815

Make: Piper

Model: PA34-200T

S/N: 34-7870004

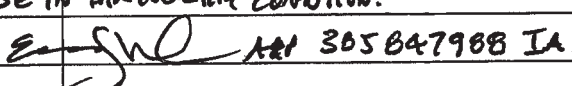
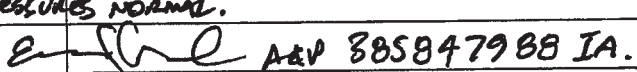
Removed alternator from right engine to be sent out for overhaul. Re-installed alternator on right engine. Ops check alternator OK.

This aircraft is approved for return to service this date.

Signature Richard Korman

A&P 3440119

5/6/2019	TACH.	1917.7	DRAINED & SERVICED ENGINE OIL WITH 8 QTS W100. REPLACED OIL FILTER CH48108-1. INSPECTED OLD FILTER - CLEAN - Gregory E. Smith A&P 369544480 IA		
6/6/2019	TACH.	1964.6	DRAINED & SERVICED ENGINE OIL WITH 8 QTS W100. REPLACED OIL FILTER CH48108-1. INSPECTED OLD FILTER - CLEAN - Gregory E. Smith A&P 369544480 IA		
8-7-19	TACH TIME:	2018.6	CHANGED ENGINE OIL AND OIL FILTER. INSTALLED NEW OIL FILTER P/N: 48108-1 AND SERVICED ENGINE WITH 8 QUANTS AEROSHELL 100W OIL. INSPECTED OLD OIL FILTER - NO DISCREPANCIES NOTED. PERFORMED ENGINE RUN-UP AND LEAK CHECK. INSPECTED AND CLEANED FUEL INJECTOR NOZZLES. Gregory E. Smith A&P 305847988 IA.		
12/10/2019	RT Tach	2062.7	N47815 Drained and serviced oil 8qts 15W50 and replaced oil filter CH48108-1. Gregory E. Smith A&P369544480 IA Gregory E. Smith		

Date	Total Time		Time Since Last Overhaul		<b>Engine Service and Maintenance Record</b> Record maintenance actions including engine part removal and installation and compliance with inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
	Hours	Min	Hours	Min	
Carried forward →					
2-5-20	TACH TIME: 2092.1				ENGINE TSFAM: 1466.4 PERFORMED ANNUAL INSPECTION IN ACCORDANCE WITH PIPER SENECA II SERVICE MANUAL AND FAR PART 43 APPENDIX D. THE FOLLOWING MAINTENANCE WAS PERFORMED: COMPRESSION TEST: 1) 75/80 2) 50/80 3) 70/80 4) 75/80 5) 75/80 6) 50/80. CHANGED ENGINE OIL AND OIL FILTER. INSTALLED NEW OIL FILTER P/N: CH48108-1 AND SERVICED ENGINE WITH 8 QUARTS ARMOHELL 20W50 STRAIGHT MINERAL OIL. INSPECTED OLD OIL FILTER - NO DISCREPANCIES NOTED. REMOVED #1, #5 AND #6 CYLINDERS AND INSTALLED NEWLY OVERHAULED CYLINDERS USING NEW SEALS AND GASKETS. BREAK-IN TO BE PERFORMED BY AIRCRAFT OWNER. INSPECTED AND CLEANED AND TREATED CHALLENGER AIR FILTER. INSPECTED AND CLEANED FUEL INJECTION NOZZLES. CLEANED, CAPPED AND ROTATED SPARK PLUGS. INSPECTED ENGINE MOUNT, FIREWALL AND STRUCTURE. CHECKED MAGNETO-TO-ENGINE TIMING. INSPECTED INTAKE AND EXHAUST SYSTEMS. INSTALLED NEWLY OVERHAULED #1 CYLINDER EXHAUST RISER P/N: 640964-101. INSPECTED TURBO CHARGER, WASTE PIPE AND WASTE GATE ASSEMBLY. INSPECTED ALL ELECTRICAL, WIRING AND FLUID CARRYING LINES. INSPECTED ALL ENGINE Baffle, FLEXIBLE Baffle MATERIAL. INSPECTED ENGINE CABS AND CONVE FLAPS. INSPECTED MAGNETOS, VACUUM PUMP, ALTERNATOR, STARTER, ALTERNATE AIR DOOR, AIR BOX, OIL COOLER, FUEL INJECTION PUMP / SOLID, FUEL DISTRIBUTOR, PROPORTION GOVERNOR, TACH DRIVE, SPARK PLUG LEADS AND CYLINDER ASSEMBLIES. INSPECTED AND LUBRICATED ALL ENGINE COMPONENTS. WASHED ENGINE. PERFORMED ENGINE RUN-UP AND LEAK CHECK. ALL TEMPERATURES AND PRESSURES NORMAL. CHECKED AD'S THROUGH 51-WEEK 2020-03. NO NEW OR RECALLING AD'S DUE AT THIS TIME AND DATE. I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIR WORTHY CONDITION.
					
4-8-20	TACH TIME: 2107.7				CHANGED ENGINE OIL AND OIL FILTER. INSTALLED NEW OIL FILTER P/N: CH48108-2 AND SERVICED ENGINE WITH 8 QUARTS ARMOHELL W100 ENGINE OIL. INSPECTED OLD OIL FILTER - NO DISCREPANCIES NOTED. TOOK OIL SAMPLE FOR ANALYSIS. INSTALLED NEW PIPER MIXTURE CONTROL CABLE P/N: 554-293 AND ADJUSTED MIXTURE CONTROL. PERFORMED ENGINE RUN-UP AND LEAK CHECK. ALL TEMPERATURES AND PRESSURES NORMAL.
					

1. Approving Civil Aviation Authority/Country: FAA/UNITED STATES		2. <b>AUTHORIZED RELEASE CERTIFICATE</b> FFA FORM 8130-3, AIRWORTHINESS APPROVAL TAG		3. Form Tracking Number:	
4. Organization Name and Address: <b>Harrison Engine Service, Inc.</b> 301 Detroit St., La Porte, IN 46350				5. Work Order/Contract/Invoice Number: 18300	
6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:
Cyl	Cont	658189	1	—	Overhaul
12. Remarks: Inspect Nuchrome Overhaul					
13a. Certifies the items identified above were manufactured in conformity to: <input type="checkbox"/> Approved design data and are in condition for safe operation. <input type="checkbox"/> Non-Approved design data specified in Block 12			14a. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> Other regulation specified in Block 12 Certifies that unless otherwise specified in Block 12, the work identified in Block 11 and described in Block 12 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.		
13b. Authorized Signature:		13c. Approval/Authorization No.:		14b. Authorized Signature: Daniel Turner	
13d. Name (Typed or Printed):		13e. Date (dd/mm/yyyy):		14c. Approved Certificate No: LR2R988K	
				14d. Name (Typed or Printed): Daniel Turner	
				14e. Date (dd/mm/yyyy): 1:29:21	



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

**8/07/2020 Right tach: 2165.1**

Drained and serviced engine oil with 8 qts of Aeroshell 15W50. Replaced oil filter with a CH48108-1. Inspected filter and found clean.

**Gregory E. Smith 369544480 IA**

*Gregory E. Smith*

**10/22/2020 Right tach: 2214.8**

Drained and serviced engine oil with 8 qts of Aeroshell 15W50. Replaced oil filter with a CH48108-1. Inspected filter and found clean.

**Gregory E. Smith 369544480 IA**

*Gregory E. Smith*

2-22-21 TACH TIME: 2238.8 ENGINE TSFRM: 1613.1. PERFORMED ANNUAL INSPECTION IN ACCORDANCE WITH PIPER SENECA II SERVICE MANUAL AND FAR PART 43 APPENDIX D. THE FOLLOWING MAINTENANCE WAS PERFORMED: COMPRESSION TEST: 1) 78/80 2) 46/80 (NOW 74/80) 3) 64/80 4) 76/80 5) 77/80 6) 62/80. CHANGED ENGINE OIL AND OIL FILTER. INSTALLED NEW OIL FILTER P/N: AA48108-2 AND SERVICE ENGINE WITH 8 QUARTS PHILLIPS 20W50 TYPE M ENGINE OIL. REMOVED #2 CYLINDER AND INSTALLED NEWLY OVERHAULED CYLINDER ASSEMBLY USING NEW GASKETS AND SEALS. SEE FAA FORM 8130-3 FROM HARRISON ENGINE SERVICE, INC. DATED 1-29-21. INSPECTED, CLEANED AND RETREATED CHALLENGER ENGINE AIR FILTER. INSPECTED AND CLEANED FUEL INJECTOR NOZZLES. CLEANED, GAPPED AND ROTATED SPRAY PLUGS. INSPECTED ALL ELECTRICAL WIRING AND FLUID CARRYING LINES. INSPECTED ENGINE MOUNT, FIREWALL AND STRUCTURE. INSPECTED INTAKE AND EXHAUST SYSTEMS. INSPECTED TURBO CHARGER, WYE PIPE AND WATSE GATE ASSEMBLY. INSPECTED ALL ENGINE Baffle AND FLEXIBLE Baffle MATERIAL. INSPECTED ENGINE COWLS AND COWL FLAPS. CHECKED MAGNETO-TO-ENGINE TIMING. INSPECTED MAGNETOS, VACUUM PUMP, ALTERNATOR, ALTERNATE AIR DOOR, AIR BOX ASSEMBLY, OIL COOLER/FUEL INJECTOR PUMP/SERVO, PROPELLER GOVERNOR, TACH DRIVE, SPARK PLUG LEADS AND CYLINDER ASSEMBLIES. INSPECTED AND LUBRICATED ALL ENGINE CONTROLS. WASHED ENGINE. PERFORMED ENGINE RUN-UP AND LEAK CHECK. ALL TEMPERATURES AND PRESSURES NORMAL. CHECKED AD'S THROUGH BI-WEEKLY 2021-05. NO NEW OR RECURRING AD'S DUE AT THIS TIME AND DATE. I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION.

*Gregory E. Smith*

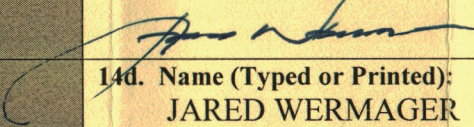
A&P385847988IA

**4-7-21**

TACH TIME: 2257.9 CHANGED ENGINE OIL AND OIL FILTER. INSTALLED NEW OIL FILTER P/N: AA48108-2 AND SERVICED ENGINE WITH 8 QUARTS AEROSHELL 100W ENGINE OIL. INSPECTED OLD OIL FILTER - NO DISCREPANCIES NOTED. INSPECTED AND CLEANED #2, #4, #6 CYLINDER FUEL INJECTOR NOZZLES. INSTALLED NEW CHT PROBE P/N: 1260 IN #6 CYLINDER. PERFORMED ENGINE RUN-UP AND LEAK CHECK. ALL TEMPERATURES AND PRESSURES NORMAL. WASHED ENGINE.

*Gregory E. Smith* A&P 385847988 IA.



1. Approving Civil Aviation Authority/Country:  FAA/UNITED STATES		2. <b>AUTHORIZED RELEASE CERTIFICATE</b> FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG			3. Form
4. Organization Name and Address  Rapco, Inc., 445 Cardinal Lane, Hartland, WI 53029 (NE5R064N)					5. Work Num
6. Item:	7. Description:	8. Part Number	9. Quantity	10. Serial Number:	11. Stat
1	Vacuum Pump	442CW	1	182646	
12. Remarks: The above item has been overhauled in accordance with FAA approved process specification #203-6-1009 Revision 9, Dated April 15th, 2017. This certifies that the work specified in block 11/ 12 was carried out in accordance with EASA Part 145 and with respect to that work the article is co service under EASA part 145 approval number "EASA.145.4802"					
13a. Certifies the items identified above were manufactured in conformity to:  <input type="checkbox"/> Approved design data and are in a condition for safe operation.  <input type="checkbox"/> Non-approved design data specified in Block 12.			14a. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to service <input checked="" type="checkbox"/> Other regu  Certifies that unless otherwise specified in Block 12, the Block 11 and described in Block 12 was accomplished in 14, Code of Federal Regulations, part 43 and in respect t are approved for return to service.		
13b. Authorized Signature:		13c. Approval/Authorization No.:		14b. Authorized Signature 	14c. Approv
13d. Name (Typed or printed):		13e. Date (dd/mm/yyyy):		14d. Name (Typed or Printed): JARED WERMAGER	14e. Date (d
<b>User/Installer Responsibilities</b> It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article.  Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different that the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures the his/her airworthiness authority accepts aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of the count specified in Block 1.  Statements in Blocks 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown. FAA Form 8130-3 (02-14)					



# PUMP INSTALLATION CHECKLIST

Not following all items will void your warranty

- ☐ 1. Blow all lines out to remove foreign matter
- ☐ 2. Change all filters
- ☐ 3. Check/Change Garlock seal if leaking
- ☒ 4. Check for Oil leaks
- ☒ 5. **DO NOT** use Teflon Tape or sealant of any kind
- ☒ 6. **DO NOT** disassemble pump
- ☒ 7. Cover unit when cleaning engine with any solvent
- ☒ 8. Check all lines for dry rot and damage
- ☐ 9. Complete warranty registration card, return immediately

Customer Warranty Request card must be returned and properly completed with defective pump for warranty considerations

**RAPCO, Inc.**  
REPLACEMENT AIRCRAFT PARTS CO.

445 Cardinal Lane Hartland, WI 53029  
www.rapcoinc.com

## CUSTOMER

## WARRANTY REQUEST

Owner

Name \_\_\_\_\_

Company \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ St \_\_\_\_\_ Zip \_\_\_\_\_

### IMPORTANT!

This card must be  
completed and returned  
with non-returnable pump  
for warranty consideration

Aircraft  
Make PIPER

Model PA34-200T

Registration N48815

Tach Time On 1887.0 Hrs.

Tach Time Off \_\_\_\_\_ Hrs.

Unit Installed 442CW

Part No. \_\_\_\_\_

Serial No. 182646

Date of Manufacture DEC 18 2018

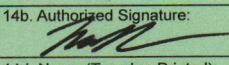
Date Installed 3/22/19

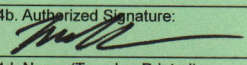
Date Removed 3/22/19

Purchased From AIRCRAFT SPRUCE

PUMPS SENT IN FOR WARRANTY  
WILL NOT BE RETURNED



1. Approving Civil Aviation Authority/Country: FAA/UNITED STATES		2. <b>AUTHORIZED RELEASE CERTIFICATE</b> FFA FORM 8130-3, AIRWORTHINESS APPROVAL TAG			3. Form Tracking Number:	
4. Organization Name and Address: <b>Harrison Engine Service, Inc.</b> 301 Detroit St., La Porte, IN 46350				5. Work Order/Contract/Invoice Number: 12831		
6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:	
Cyl	Cont	658189	1	—	Overhaul	
12. Remarks: Inspect Here Overhaul Complete						
13a. Certifies the items identified above were manufactured in conformity to:			14a. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> Other regulation specified in Block 12			
<input type="checkbox"/> Approved design data and are in condition for safe operation.  <input type="checkbox"/> Non-Approved design data specified in Block 12			Certifies that unless otherwise specified in Block 12, the work identified in Block 11 and described in Block 12 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.			
13b. Authorized Signature:		13c. Approval/Authorization No.:		14b. Authorized Signature:		
				 <b>LR2R988K</b>		
13d. Name (Typed or Printed):		13e. Date (dd/mm/yyyy):		14c. Approved Certificate No:		
				<b>33-17</b>		
		14d. Name (Typed or Printed):		14e. Date (dd/mm/yyyy):		
		MARK HARRISON		33-17		

1. Approving Civil Aviation Authority/Country: FAA/UNITED STATES		2. <b>AUTHORIZED RELEASE CERTIFICATE</b> FFA FORM 8130-3, AIRWORTHINESS APPROVAL TAG			3. Form Tracking Number:	
4. Organization Name and Address: <b>Harrison Engine Service, Inc.</b> 301 Detroit St., La Porte, IN 46350				5. Work Order/Contract/Invoice Number: 12830		
6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:	
Cyl	Cont	658189	1	—	Overhaul	
12. Remarks: Inspect Here Overhaul Complete						
13a. Certifies the items identified above were manufactured in conformity to:			14a. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> Other regulation specified in Block 12			
<input type="checkbox"/> Approved design data and are in condition for safe operation.  <input type="checkbox"/> Non-Approved design data specified in Block 12			Certifies that unless otherwise specified in Block 12, the work identified in Block 11 and described in Block 12 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.			
13b. Authorized Signature:		13c. Approval/Authorization No.:		14b. Authorized Signature:		
				 <b>LR2R988K</b>		
13d. Name (Typed or Printed):		13e. Date (dd/mm/yyyy):		14c. Approved Certificate No:		
				<b>33-17</b>		
		14d. Name (Typed or Printed):		14e. Date (dd/mm/yyyy):		
		MARK HARRISON		33-17		

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

C: 6/15/2021 Tach: 2303.7 RT engine N47815

Drained and serviced with 8 qts of Aeroshell W100 oil and replaced oil filter with a Tempest AA48108-2. Replaced the following gami fuel injectors and installed new ones, cyl #4(GM136), cyl #5(GF151), cyl #6 (GF151). All work done IAW installation procedure IP-97-003 revN/C, 12-5-1997 and TCM engine manual. *I certify this engine to be airworthy and return to service.*

Gregory E. Smith A&P369544480 IA

*Gregory E. Smith*

6/24/2021 tach:2312.9 N47815

Removed old electric right engine fuel pump p/n 2B6-44 s/n 8C-935 and installed rebuild pump p/n 2B6-44 s/n 10C-1260.

*I certify that this aircraft is airworthy and return to service.*

Gregory E. Smith A&P 369544480 IA

*Gregory E. Smith*

07/17/2021 Right tach: 2322.4

Drained and serviced engine oil with 8 qts of Aeroshell 15W50. Replaced oil filter with a CH48108-1. Inspected filter and found clean.

Gregory E. Smith 369544480 IA

*Gregory E. Smith*

07/17/2021 Left tach: 2309.7

Drained and serviced engine oil with 8 qts of Aeroshell 15W50. Replaced oil filter with a CH48108-1. Inspected filter and found clean.

Gregory E. Smith 369544480 IA

*Gregory E. Smith*

9-9-21 TACH TIME: 2379.2 ENGINE TSFRM: 1753.5. PERFORMED ANNUAL INSPECTION IN ACCORDANCE WITH PIPER SENECA II SERVICE MANUAL AND FAR PART 43 APPENDIX D. THE FOLLOWING MAINTENANCE WAS PERFORMED: COMPRESSION TEST: 1)78/80 2)78/80 3)65/80 4)77/80 5)76/80 6)70/80. CHANGED ENGINE OIL AND OIL FILTER, INSTALLED NEW OIL FILTER P/N: CH48108-1 AND SERVICED ENGINE WITH 8 QUARTS AEROSHELL 100W ENGINE OIL. OPENED AND INSPECTED OLD OIL FILTER- NO DISCREPANCIES NOTED. INSPECTED, CLEANED AND RETREATED CHALLENGER ENGINE AIR FILTER. INSPECTED AND CLEANED FUEL INJECTOR NOZZLES. CLEANED, GAPPED AND ROTATED SPARK PLUGS. INSPECTED ALL ELECTRICAL, WIRING AND FLUID CARRYING LINES. INSPECTED ENGINE MOUNT, FIREWALL AND STRUCTURE. INSPECTED INTAKE AND EXHAUST SYSTEMS. INSPECTED TURBOCHARGER, WYE PIPE, AND WATSE GATE ASSEMBLY. INSPECTED ALL ENGINE BAFFLE AND FLEXIBLE BAFFLE MATERIAL. INSPECTED ENGINE COWLS AND COWL FLAPS. CHECKED MAGNETO-TO-ENGINE TIMING. INSPECTED MAGNETOS, VACUUM PUMP, ALTERNATOR ALTERNATE AIR DOOR, AIR BOS ASSEMBLY, OIL COOLER, FUEL INJECTOR PUMP/SERVO, PROPELLER GOVERNOR, TACH DRIVE SPARK PLUG LEADS AND CYLINDER ASSEMBLIES. INSPECTED AND LUBRICATED ALL ENGINE CONTROLS. WASHED ENGINE. PERFORMED VALVE LAPPING PROCEDURE ON #3 CYLINDER EXHAUST VALVE. INSTALLED NEW INNER EXHAUST VALVE SPRING P/N: 625957, OUTER EXHAUST VALVE SPRING P/N: 625958 AND NEW ROTOCOIL ASSEMBLY P/N: 631654 ON #3 CYLINDER EXHAUST VALVE. REMOVED RIGHT HAND EXHAUST COLLECTOR ASSEMBLY AND REINSTALLED SAME USING NEW NO-BLOW EXHAUST GASKETS P/N: RA970(3 EACH). REPAIRED DIFFERENTIAL FUEL PRESSURE LINE AT THROTTLE BODY. PERFORMED ENGINE RUN-UP AND LEAK CHECK ALL TEMPERATURES AND PRESSURES NORMAL. CHECKED AD'S THROUGH BI-WEEKLY 2021-19. NO NEW OR RECURRING AD'S DUE AT THIS TIME AND DATE. I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION.

*angine*

A&P 385847988 IA



