

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 →

N358CD Continental IO-550-N27B S/N: 917193  
November 5, 2009 ACTT: 2099.5 TTEng: 2099.5

Completed **50-Hour Inspection** IAW Cirrus SR22 Service Manual. Drained oil – took sample for Aviation Laboratories analysis, removed filter, inspected for contaminants – none found, installed new CH48108-1 oil filter, and serviced sump with 7 qts. Aeroshell 15W-50 oil and 1 pint ASL CamGuard. Visually inspected exhaust system – found both flame tubes distorted from overheating. Removed both muffler units and installed new-exchange units (1) SR22MST and (1) SR22MSM. Cleaned engine compartment. Lubed engine controls. Ground run and ops check good. All work done IAW Continental IO-550 Service Manual and Cirrus SR 22 Service Manual. -----END-----

**Waterford Aviation, Inc.**

Reg: N358CD Type: Continental IO-550-N27 S/N: 917193  
Date: November 20, 2009 ACTT: 2116.0 TTEng: 2116.0

Removed engine and all related engine accessories from N358CD (S/N: 0967) for overhaul. -----END-----

**Waterford Aviation, Inc.**

Reg: N358CD Type: Continental IO-550-N27 S/N: 917193  
Date: December 18, 2009 TTEng: 2116.0 TSMOH: 000.0

Overhauled basic engine assembly to factory new limits. Disassembled and inspected all parts IAW Continental IO-550-N Overhaul Manual. Crankcase repaired by Divco CRS# DB2R762K under W.O. 101209. Crankshaft, camshaft, connecting rods, rocker arms, lifters, and all internal steel gears overhauled/reconditioned by Aircraft Specialties Service CRS# DD2R764K under W.O. 176530. Reassembled engine using new parts listed below. Oil pump housing overhauled by Drake Air CRS# II2R899K under W.O. 461624. All work done IAW Continental IO-550-N Overhaul Manual and all applicable service bulletins. Researched AD's through bi-weekly 2009-25. **AD 2009-16-03** (eff. 9/9/09) Superior Cylinders – DNA by cylinder type. **AD 2009-19-07** (eff. 10/7/09) EQ3 Cylinder Heads – DNA by engine M/N. **AD 2009-24-52** (eff. 11/16/09) Hydraulic Lifters – DNA by lifter p/n. -----END-----

Part No.	Qty.	Description	Part No.	Qty.	Description	Part No.	Qty.	Description
EQ7365	1	Gasket Set	642398	12	Rod Bearings	652887-5.13	1	Thru-bolt
634503	6	Main Bearing	654490	12	Rod Nuts	630693-10.44	8	Thru-bolt
634511	4	Base Nut	653547	4	Main Bearing	641931-10.75	1	Thru-bolt
630871	1	Bushing	653188	24	Rocker Washer	SA631088-.44	4	Camshaft bolt
SA649205	4	Bolt	656990	6	Crankshaft Bolt	AEC630899	1	Bearing
630046	6	Piston pin	657496	1	Vernatherm	SA5000-SC5	6	Ring Set
652422	36	Base nut	646288	4	Thrust Washer	AEC653826	12	Rocker Shaft
655958	12	Rod Bolts	641909	2	Lock plate	652887-6.19	1	Thru-bolt
630873	1	Pin	SA652541	12	Base Nut	AEC654857	6	Piston
501868	24	Locktab	NAS1805-4	2	Nut	631016	1	Oil pump gear
653877A-C	1	Lifter						

655465A5 Cylinder Assembly Serial Numbers

AC09FB569	AC09JA953	AC09CD215	AC09JA932	AC09IC127	AC09ID701
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**Waterford Aviation, Inc.**

Reg: N358CD Type: Continental IO-550-N27 S/N: 917193  
Date: January 6, 2009 TTEng: 2116.6 TSMOH: 000.6

Re-installed engine to N358CD Cirrus SR22 (S/N: 0967) using new parts and accessories as listed below. All engine hoses replaced with new from Herber Aircraft - testing due again next 5 years. Repaired engine baffling as required and reconditioned with new baffle seals. Installed set of GAMInjectors (Kit # TIG550-12E S/N: 19693) under STC# SE09963SC IAW FAA Form 337, dated January 6, 2010. Cleaned, gapped, inspected and rotated spark plugs. Serviced oil sump with 8 quarts of Exxon 20w-50 Mineral Oil. Motored engine with starter to obtain oil pressure. Rigged all engine controls. Completed ground run-up for operation and leak check. No leaks noted and operations normal. Set-up fuel injection system IAW TCM SID97-3E Fuel Injection Set-up Procedures. All work done IAW Cirrus SR22 and TCM IO-550 Service Manuals and all applicable service bulletins. -----END-----

Part No.	Qty.	Description	Part No.	Qty.	Description	Part No.	Qty.	Description
10-423674-19	1	Ignition Harness	BA24	1	Air Filter	TAS100-12CS-107	1	Tanis Engine Heater
J9613-76	6	Engine Mount	MS9276-13	6	Tabbed Washer	CH48108-1	1	Oil Filter

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.	

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Overhauled Accessories					
Name	P/N	S/N	Overhaul Facility	CRS#	W.O.
Fuel Pump	655921-3A1	B04CA256	D&G Supply	NK2R034L	20230
Fuel Manifold	646433-9A1	C04CA242	D&G Supply	NK2R034L	20230
Metering Valve	653353-8A1	A04CA250	D&G Supply	NK2R034L	20230
Propeller Governor	C290D3R/T23	40375	H&S Propeller	MQ5R050N	42037
Oil Cooler	10281A	C04-2147-945	Drake Air	112R899K	461584
Magneto	10-500556-1	D05KA406	Aircraft Accessories of OK	RV3R829L	39726
Magneto	10-500556-1	D05LA175	Aircraft Accessories of OK	RV3R829L	39726

**Waterford Aviation, Inc.** [Redacted]  
**Reg: N358CD Type: Continental IO-550-N27 S/N: 917193**  
**Date: January 8, 2010 ACTT: 2117.2 TSMOH: 000.6**  
 Completed flight test. All operations normal and no leaks noted at this time. ---END---

**Waterford Aviation, Inc.** [Redacted]  
**Reg: N358CD Type: Continental IO-550-N27 S/N: 917193**  
**Date: January 14, 2010 ACTT: 2131.8 TTEng: 2131.8 TSMOH: 15.8**  
 Drained oil, removed filter and inspected for contaminants - none found, installed new AA48108-2 filter and serviced sump with 7qts. Aeroshell 15w-50 and 1 pint ASL CamGuard. Differential compression check: #1 79/80 #2 75/80 #3 75/80 #4 73/80 #5 74/80 #6 78/80. Washed engine compartment. Adjusted idle fuel flow to specs. Ground run-up and leak check good. All work done IAW Cirrus SR22 and Continental IO-550 Service Manuals. ---END---

**Waterford Aviation, Inc.** [Redacted]  
**Reg: N358CD Type: Continental IO-550-N27 S/N: 917193**  
**Date: January 27, 2010 ACTT: 2152.3 TTEng: 2152.3 TSMOH: 36.3**  
 Drained oil - took sample for Aviation Laboratories, removed filter and inspected for contaminants - none found, installed new AA48108-2 filter and serviced sump with 7qts. Aeroshell 15w-50 and 1 pint ASL CamGuard. Washed engine compartment. Lubed engine controls. Ground run-up and leak check good. All work done IAW Cirrus SR22 and Continental IO-550 Service Manuals. ---END---

**Waterford Aviation, Inc.** [Redacted]  
**Reg: N358CD Type: Continental IO-550-N27 S/N: 917193**  
**Date: March 18, 2010 ACTT: 2210.1 TTEng: 2210.1 TSMOH: 94.1**  
 Completed **50-Hour Oil Change/Inspection** IAW Cirrus SR22 Service Manual. Drained oil, removed filter and inspected for contaminants - none found, installed new AA48108-2 filter and serviced sump with 7qts. Aeroshell 15w-50 and 1 pint ASL CamGuard. Differential Compression check: #1 76/80 #2 77/80 #3 75/80 #4 77/80 #5 77/80 #6 77/80. Washed engine compartment. Lubed engine controls. Ground run-up and leak check good. All work done IAW Cirrus SR22 and Continental IO-550 Service Manuals. ---END---

**Waterford Aviation, Inc.** [Redacted]  
**Reg: N358CD Type: Continental IO-550-N27 S/N: 917193**  
**Date: May 3, 2010 ACTT: 2261.1 TTEng: 2261.1 TSMOH: 145.1**  
 Drained oil - took sample for Aviation Laboratories, removed filter and inspected for contaminants - none found, installed new CH48108-1 filter and serviced sump with 7qts. Aeroshell 15w-50 and 1 pint ASL CamGuard. Differential compression checks: #1 78/80 #2 79/80 #3 75/80 #4 78/80 #5 77/80 #6 76/80. Visually inspected exhaust system - no defects noted. Dressed and painted propeller. Cleaned, inspected, gapped, rotated and reinstalled spark plugs. Removed starter adapter clutch for slipping and installed used/serviceable unit of same part number with new gasket. Washed engine compartment. Lubed engine controls. Ground run-up and leak check good. All work done IAW Cirrus SR22 and Continental IO-550 Service Manuals. ---END---

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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 →					
<p>Waterford Aviation, Inc. [Redacted] <a href="http://www.WaterfordAviation.com">www.WaterfordAviation.com</a>            Reg: N358CD Type: Continental IO-550-N27 S/N: 917193            Date: March 28, 2013 ACTT: 3094.7 TTEng: 3094.7 TSMOH: 978.7            Drained oil – took sample for Blackstone Laboratories, removed filter and inspected for contaminants – none found, installed new CH48108-1 filter and serviced sump with 7 qts. Phillips 20w-50 X/C oil and 1 pint ASL CamGuard. Lubed engine controls. Ground run-up and leak check good. All work done IAW Cirrus SR22 and Continental IO-550 Service Manuals. -----END-----</p>					
<p>Waterford Aviation, Inc. [Redacted] <a href="http://www.WaterfordAviation.com">www.WaterfordAviation.com</a>            Reg: N358CD Type: Continental IO-550-N27 S/N: 917193            Date: May 2, 2013 ACTT: 3141.4 TTEng: 3141.4 TSMOH: 1025.4            Drained oil – took sample for Blackstone Laboratories, removed filter and inspected for contaminants – none found, installed new CH48108-1 filter and serviced sump with 7 qts. Phillips 20w-50 X/C oil and 1 pint ASL CamGuard. Replaced starter adapter clutch with TCM rebuilt 642083A12R adapter. Adjusted T.O. rpm setting on governor. Lubed engine controls. Ground run-up and leak check good. All work done IAW Cirrus SR22 and Continental IO-550 Service Manuals. -----END-----</p>					
<p>Waterford Aviation, Inc. [Redacted] <a href="http://www.WaterfordAviation.com">www.WaterfordAviation.com</a>            Reg: N358CD Type: Continental IO-550-N27 S/N: 917193            Date: May 17, 2013 ACTT: 3174.9 TTEng: 3174.9 TSMOH: 1058.9            Completed 500-Hour Magneto Inspections IAW TCM Master Ignition Manual – replaced felt seals, gaskets, and drive cushions with new. Reinstalled &amp; timed to engine. Removed RH exhaust stack and installed used/serviceable stack of same part number using (3) SA628260 gaskets. All work done IAW Cirrus SR22 &amp; TCM IO-550 Service Manuals. -----END-----</p>					
<p>Waterford Aviation, Inc. [Redacted] <a href="http://www.WaterfordAviation.com">www.WaterfordAviation.com</a>            Reg: N358CD Type: Continental IO-550-N27 S/N: 917193            Date: June 26, 2013 ACTT: 3229.6 TTEng: 3229.6 TSMOH: 1113.6            Drained oil – took sample for Blackstone Laboratories, removed filter and inspected for contaminants – none found, installed new CH48108-1 filter and serviced sump with 7 qts. Aeroshell W100 oil and 1 pint ASL CamGuard. Visually inspected exhaust system – no defects noted. Washed engine compartment. Lubed engine controls. Ground run-up and leak check good. All work done IAW Cirrus SR22 and Continental IO-550 Service Manuals. -----END-----</p>					
<p>Waterford Aviation, Inc. [Redacted] <a href="http://www.WaterfordAviation.com">www.WaterfordAviation.com</a>            Reg: N358CD Type: Continental IO-550-N27 S/N: 917193            Date: July 23, 2013 ACTT: 3273.5 TTEng: 3273.5 TSMOH: 1157.4            Drained oil – took sample for Blackstone Laboratories, removed filter and inspected for contaminants – none found, installed new CH48108-1 filter and serviced sump with 7 qts. Aeroshell W100 oil and 1 pint ASL CamGuard. Visually inspected exhaust system – no defects noted. Completed 300-Hour Fuel Injectors – by cleaning and seal replacement. Washed engine compartment. Lubed engine controls. Ground run-up and leak check good. All work done IAW Cirrus SR22 and Continental IO-550 Service Manuals. -----END-----</p>					

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 →					

ENGINE MODEL  
IO-550-N27  
ENGINE S/N 917193  
REG. NO. N358CD  
WORK ORDER  
2724-07-2014



Waterford Aviation, Inc.

DATE: 25 July, 2014  
A/C TSN: 3628 6  
ENG TT: 3628 6  
TSMOH: 1512 6  
HOBBSS: 3628 6

**Engine Entries**

Drained oil, took sample for analysis by Blackstone Labs and inspected filter for contaminants, none found. Installed new CH48109-1 oil filter. Serviced engine oil sump with 7 quarts Phillips 20w50xc and Camguard oil supplement as recommended. Washed down engine and lubricated engine controls. Performed ground run of engine, all ops check good, leak check good. All work performed IAW Cirrus SR22 Maintenance Manual and TCM Master Service Manual.

**Maintenance Release**

The aircraft and/or component(s) on N358CD 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 facility under Work Order No. 2724-07-2014, Dated 25 July, 2014.

DATE: 25 July, 2014

SIGNED: [Redacted]

Luke Ha [Redacted]

Work Order: 2724-07-2014

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ENGINE MODEL  
IO-550-N27  
ENGINE S/N 917193  
REG. NO. N358CD  
WORK ORDER  
2788-09-2014



Waterford Aviation, Inc.

DATE: 02 September, 2014  
A/C TSN: 3674 7  
ENG TT: 3674 7  
TSMOH: 1558 7  
HOBBSS: 3674 7

**Engine Entries**

Drained oil - took sample for Blackstone Labs, removed filter, inspected for contaminants - none found, installed new CH48109-1 Filter, and 7 qts Phillips 20w50 X/C & ASL CamGuard. Ground run-up ops and leak check good.

**Maintenance Release**

The aircraft and/or component(s) on N358CD 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 facility under Work Order No. 2788-09-2014, Dated 02 September, 2014.

DATE: 02 September, 2014

SIGNED: [Redacted]

Jeff B [Redacted]

Work Order: 2788-09-2014

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ENGINE MODEL  
IO-550-N27  
ENGINE S/N 917193  
REG. NO. N358CD  
WORK ORDER  
2838-10-2014



Waterford Aviation, Inc.

DATE: 05 December, 2014  
A/C TSN: 3700 6  
ENG TT: 3700 6  
TSMOH: 1584 6  
HOBBSS: 3700 6

**Engine Entries**

Completed Annual Inspection in scope & detail of FAR 43 App. D and IAW Cirrus SR22 & TCM IO-550-N Service Manual. Researched AD's thru bi-weekly 2014-20 - none due at this time. Performed Differential Compression Check #1 78 #2 70 #3 65 #4 76 #5 74 #6 74, all over 80 and MO 44/80. Borescope inspection revealed no defects in cylinders. Cleaned, gapped, inspected & rotated spark plugs. Cleaned engine compartment & lubricated engine controls. I certify that this Engine has been inspected in accordance with an Annual Inspection and has been found to be in Airworthy condition.

Removed fuel injectors, cleaned and reinstalled with new o-rings P/N 630979-9 (qty 6), new washer gaskets P/N 640612 (qty 6), and new copper washers P/N X1473 (qty 6). Removed #1, 2, 3, and 4 intake tubes to facilitate injector removal. Reinstalled with new gaskets P/N 649950 (qty 4). Ops check and leak check good. Work performed IAW Cirrus SR22 MM and TCM IO-550 Service Manual.

Drained oil and took sample for evaluation by blackstone labs. Removed oil filter, inspected for contaminants, none found. Installed new oil filter, P/N/ CH48109-1. Serviced engine oil sump with 7qts 20w50xc and Camguard as required.

Performed 500Hr inspection of magnetos. Disassembled, cleaned, inspected, replaced parts as required, assembled, lubed, and timed IAW TCM master service manual. Installed on engine and performed ground run of engine. Ops check good, leak check good. See yellow tags for parts replaced.

**Maintenance Release**

The aircraft and/or component(s) on N358CD 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 facility under Work Order No. 2838-10-2014, Dated 05 December, 2014.

DATE: 05 December, 2014

SIGNED: [Redacted]

Work Order: 2838-10-2014

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