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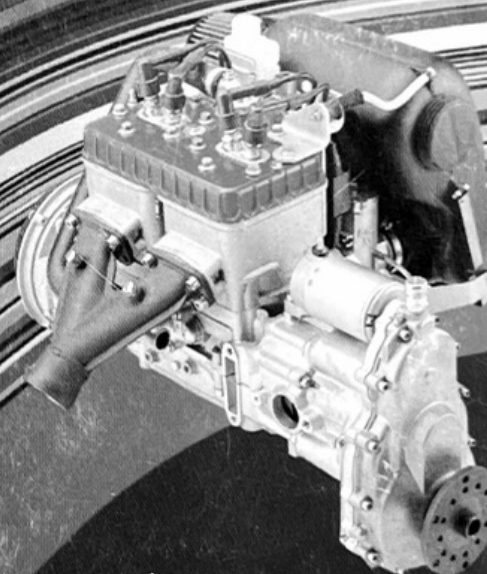
N898GS

MOTOR LOGBUCH

ENGINE LOG BOOK



picture
ROTAX® 912 ULS 3 with options



picture
ROTAX® 582 UL DCDI with options

Ausgabe Edition: 2007 01 01

Teile-Nr. / part no.: 898020

Nr. / no.:

Motor-Logbuch Nr.:

Engine Log Book: # / für Kolbenmotor
for piston engine

1

Baumuster:

Type of engine:

912 ULS 2

Baureihe:

Model:

912 ULS version 2

Motor-Nr.:

Engine serial no.:

5650317

Hersteller:

Manufacturer:

BRP-Rotax GmbH & CO. KG

A-4623 Gunskirchen, Austria

Baujahr:

Year of manufacture:

2007

Kennblatt:

Data sheet:

Startleistung:

Take off power :

kW

kW

zul. Dauer:

perm. duration:

min.

min.

bei:

at:

min⁻¹

r.p.m.

Max. zul. Dauerleistung:

Max. cont. power:

kW

kW

bei:

at:

min⁻¹

r.p.m.

Der oben bezeichnete Motor ist als betriebstüchtig anzusehen, wenn er gemäß der Zivilluftfahrzeug- und Luftfahrtgerät-Verordnung, letztgültige Ausgabe und den Betriebs- und Wartungsanweisungen entsprechend betrieben und gewartet wird.

The above mentioned engine is considered to be operationally reliable if operated and maintained in accordance with the Zivilluftfahrzeug- und Luftfahrtgerät-Verordnung, current issue and the pertinent operational and maintenance instructions.

Bemerkungen:

Remarks:

Datum:

Date:

25/05/2009

Unterschrift:

Signature:



6

Änderungsstand / Modification recordLufttüchtigkeitsanweisung bzw. Änderung:
*Airworthiness directive or modification:*Ges. Std.:
TSN:Datum:
Date:Unterschrift & LFZ W. Nr.:
Signature & Licence no.:

this aircraft N 89865 meets the requirements for the
ificate requested and I have issued a Special
orthiness Certificate Dated 6/6/09. The next
ection is due 6/6/10

than D. Ross DARF831151NE

Änderungsstand / Modification record

7

Lufttüchtigkeitsanweisung bzw. Änderung:
Airworthiness directive or modification:

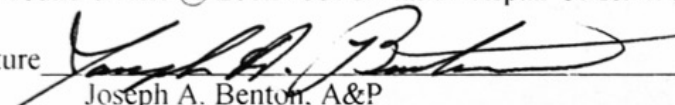
Ges. Std.:
TSN:

Datum:
Date:

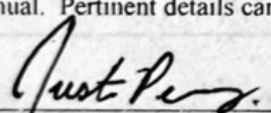
Unterschrift & LFZ W. Nr.:
Signature & Licence no.:

1-March-2010 N898GS 912ULS S/N5650317 Hobbs: 64.8
Performed Annual/100 Hour Rotax Engine Inspection, drained oil & serviced with 3 quarts of Aeroshell Sport +4 oil & installed a new oil filter. Gapped & installed 8 new spark plugs DCPR8E. Flushed coolant system & filled with DexCool 50/50. Synchronized carburetors. Installed a new fuel pump 892542 S/N09.002236. Installed a new soft start module I/A/W LOA 2010-01 – performed OP's check OK. Purged oil system, leak checked OK.

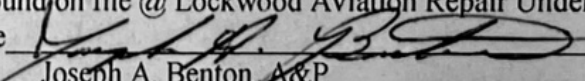
All work completed I/A/W Rotax Maintenance Manual. Pertinent details can be found on file @ Lockwood Aviation Repair Under WO5586.

Signature  A&P3138153
Joseph A. Benton, A&P

1-April-2010 N898GS 912ULS S/N 5650317 Hobbs: 67.0
C/W SB912-057UL 2000 Hour TBO Extension. All work completed I/A/W Rotax Maintenance Manual. Pertinent details can be found on file @ Lockwood Aviation Repair Under WO5784.

Signature  A&P342042
Justin Perry, A&P

12-January-2012 N898GS 912ULS S/N 5650317 Hobbs: 194.8
C/W 100 Hour Engine Inspection per Rotax M/M Checklist. Drained oil, cleaned oil tank, serviced with 3 quarts of Aeroshell Sport +4 oil & installed a new Rotax oil filter - Leak Checked OK. Gapped & installed 8 new spark plugs DCPR8E. Removed ignition cover, replaced gaskets and seals on water pump, cleaned and reinstalled cover, refilled coolant system - OP's & Leak Checked OK. Removed gascolator to clean & reinstalled. C/W 200 Hour Carburetor Overhaul, Reinstalled, Rigged and Performed Carburetor Synchronization - OP's & Leak Checked OK. C/W 200 Hour Spark Plug Connector Inspection - Checked OK. C/W 200 Hour Engine Compression Test - Recorded #'s OK. C/W 200 Hour Carburetor Socket Inspection – Checked OK. Pertinent details can be found on file @ Lockwood Aviation Repair Under WO7070.

Signature  A&P3138153
Joseph A. Benton, A&P

C/W checking all service bulletins for Rotax Engines. Installed Rotax Exhaust Kit, nuts and springs, safety wired and applied silicon. Performed Dynamic Propeller Balance. Adjusted and Balance within spec. All work completed I/A/W Bushcaddy M/M. Pertinent details can be found on file @ Lockwood Aviation Repair Under WO7337.

C/W Annual/100 Hour Condition Inspection I/A/W Rotax Engine and BushCaddy Airframe M/M. Gapped & installed 8 new spark plugs DCPR8E. Changed oil & filter. Cleaned oil tank, installed a new Rotax oil filter and serviced with Aeroshell Sport +4 oil - Leak Checked OK. C/W checking all service bulletins for Rotax Engine compliance. C/W Rotax 100 Hour Differential Compression Test Test Pressure: 80psi Results: Cylinder 1: 78 / 80psi, Cylinder 2: 78 / 80psi, Cylinder 3: 78 / 80 psi. Cylinder 4: 79 / 80psi. Installed 8 new exhaust springs, safety wired and applied RTV silicone. I certify this engine has been inspected I/A/W Rotax M/M. Pertinent details can be found on file @ Lockwood Aviation Repair Under WO7942.

C/W SB-912-063UL Fuel Pump replacement, removed 892542 s/n 09002236, installed 881 360 s/n 13-1897. Replaced exhaust spring on #2 cylinder. I certify this engine has been inspected I/A/W Rotax maintenance and inspection procedures and was found to be in a condition for safe operation. All work completed I/A/W Rotax M/M. Pertinent details can be Found on file @ Lockwood Aviation Repair under WO8471.

Signature: Joseph A. Benton A&P3138153
Joseph A. Benton, A&P

[illegible]

Änderungsstand / Modification record

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Lufttüchtigkeitsanweisung bzw. Änderung:
Airworthiness directive or modification:

Ges. Std.:
TSN:

Datum:
Date:

Unterschrift & LFZ W. Nr.:
Signature & Licence no.:

1-April-2014 N898GS Bush Caddy BCLSA 2008, 912ULS S/N: 5650317, Hobbs: 403.6

C/W Annual/100 Hour Condition Inspection Per Rotax Engine M/M. Serviced with Aeroshell Sport +4 oil, new Rotax oil filter, and 8 new DCPR8E spark plugs. Performed run-up, carburetor synchronization and idle set. Checked all Rotax Engine service bulletins for compliance. C/W Rotax 100 Hour Diff. Compression Test, Results: Cyl 1: 80/80psi, Cyl 2: 80/80psi, Cyl 3: 80/80psi, Cyl 4: 80/80psi. C/W 200 Hour Carburetor Service Requirement per SI-912-021 Inspection of Carburetors and 5-Yr Rubber Replacement Requirements - Installed new gaskets, o-rings, diaphragms and float needles. Replaced exhaust springs on cyl #4 & #1. I certify this engine has been inspected I/A/W Rotax engine maintenance and inspection procedures and was found to be in a condition for safe operation. Pertinent details can be found on file @ Lockwood Aviation Repair Under WO8642.

Signature

Joseph A. Benton A&P

A&P 3138153

17-April-2015 N898GS 912ULS S/N 5650317 Hobbs: 476.4

C/W Annual/100 Hour Condition Inspection. Changed oil & filter: Cleaned oil tank, installed new Rotax oil filter and serviced with Aeroshell Sport +4 oil - Leak checked OK. Gapped & Installed new spark plugs DCPR8E. Checked all Rotax Engine service bulletins for compliance. C/W Rotax 200 Hour Inspection of the carburetor sockets for damage and abnormalities - Checked OK. C/W 200 Hour Spark Plug Connector Pull-off check. C/W Rotax Annual Carburetor Float Bowl Inspection. checked OK. C/W Rotax SB-912-065 Inspection of carburetor float buoyancy. - Checked OK. Installed new oil thermostat - OP's checked OK. C/W 5-Year Rotax Rubber Component replacement: Removed and replaced all oil, coolant and fuel hoses. Replaced intake o-ring and coolant elbow o-rings. Installed fire sleeve over all oil and fuel lines - OP & Leak checked OK - P/C/W Carburetor and carburetors socket replacement.

17-April-2015 N898GS 912ULS S/N 5650317 Hobbs: 476.4

C/W SI-912-018 Purging of the Lubrication System and Hydraulic Valve Tappet Check - checked OK. Performed engine run-up - OP's and Leak Checked Good. Performed Pneumatic Carburetor Sync and Idle adjustment.

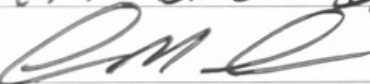
I certify this engine has been inspected I/A/W Rotax maintenance and inspection procedures and was found to be in a condition for safe operation.

All work completed I/A/W Rotax M/M. Pertinent details can be found on file @ Lockwood Aviation Repair Under WO9320.

Signature:

Joseph A. Benton, A&P3138153

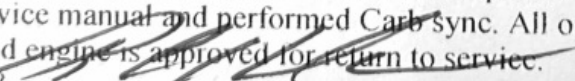
Änderungsstand / Modification record

Lufttüchtigkeitsanweisung bzw. Änderung: Airworthiness directive or modification:	Ges. Std.: TSN:	Datum: Date:	Unterschrift & LFZ W. Nr.: Signature & Licence no.:
5 MAY 2016 H: 581.5 ENGIN: 5650317 INSPECT ENGINE FOR CONDITION PER MFR MAINT. MANUAL. - REPLACE COIL BACK MOUNT. SECURE LH FWD CHT WIRING WITH HOSE & TT WRAP. - REMOVE MELTED PLASTIC LOOMING FROM MUFFLER & OIL LINE. - REPOSITION & CUSHION CARB BALLANCE TUBE WITH 3M TAPE. - CONDUCT COMPRESSION TEST WITH SATISFACTORY RESULTS. - SET PLUG GAP. I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED & FOUND IN A CONDITION FOR SAFE OPERATION.  AP448708617 IA ———— END ————			

Heart of Virginia Aviation
 11152 Airpark Rd
 Ashland, VA 23005
 Tach: 5262.54



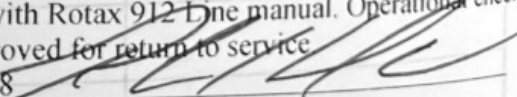
Phone: 804-798-6500
 Fax: 804-798-6544

N898GS Hobbs: 587.1 June 10, 2016
 Complied with Rotax 600 hour gear box inspection. Removed, disassembled,
 cleaned and inspected. Replaced cupped washers, friction washer and ring halves.
 Reassembled and installed on engine. Replaced 8 spark plugs. Drained oil, removed
 tank and filter. Installed new filter and added 3 quarts of aero shell sport 4 oil.
 Primed system IAW Rotax service manual and performed Carb sync. All operational
 and leak checks satisfactory and engine is approved for return to service.
 Ronald L Hawkins AP2705318 

Heart of Virginia Aviation
 11152 Airpark Rd
 Ashland, VA 23005
 Hobbs: 613.4



Phone: 804-798-6500
 Fax: 804-798-6544

N898GS Sept 2, 2016
 Drained oil and removed filter. No contamination found. Cleaned reservoir and
 refilled with 3 Liters of Aeroshell Sport + Four and new Rotax filter (825 012).
 All work done in accordance with Rotax 912 Line manual. Operational checks
 satisfactory and aircraft is approved for return to service.
 Ronald L Hawkins AP 2705318 

Änderungsstand / Modification record

11

Heart of Virginia Aviation
11152 Airpark Rd
Ashland, VA 23005



Phone: 804-798-6500
Fax: 804-798-6544
Feb.3, 2017

N898GS Hobbs: 647.7

Drained oil and removed filter, no contamination found. Serviced with 3 Litres of Aero Shell Sport Plus and install customer supplied new filter. All work done in accordance with Rotax 912 Line Manual. All operation and leak checks satisfactory and aircraft is approved for return to service.

Ronald L Hawkins AP 2705318

[Signature]

Heart of Virginia Aviation
11152 Airpark Rd
Ashland, VA 23005
N898GS



Phone: 804-798-6500
Fax: 804-798-6544
6/21/2017

Hobbs: 673 ATT: 673 ETT: 673 PTT: 673

I certify this engine has been inspected in accordance with the manufactures maintenance and inspection procedures for a 100-hour inspection and was found to be in a condition for safe operation. Engine cylinder compressions; 1/86,2/84,3/85,4/84 tested at 87psi. Drained oil and removed filter, no contamination found. Serviced with 3 quarts of aero shell sport 4 oil and added new filter. Moved oil cooler FWD to gain space between oil and cooler and radiator, see LOA. All operational and leak checks satisfactory and engine is approved for return to service.

Daniel Mcsherry AP3110300

[Signature]

Heart of Virginia Aviation
11152 Airpark Rd
Ashland, VA 23005
N898GS



Phone: 804-798-6500
Fax: 804-798-6544
6/21/2017

Hobbs: 673 ATT: 673 ETT: 673 PTT: 673

I certify this prop has been inspected in accordance with the manufactures maintenance and inspection procedures for a 100-hour condition inspection and was found to be in a condition for safe operation.

Daniel Mcsherry AP3110300

[Signature]

Ges. Std.:
TSN:

Datum:
Date:

Unterschrift & LFZ W. Nr.:
Signature & Licence no.:

Phone: 804-798-6500
Fax: 804-798-6544
6/21/2017



Heart of Virginia Aviation
11152 Airpark Rd
Ashland, VA 23005
N898GS

Hobbs: 673 ATT: 673 ETT: 673 PTT: 673

Performed 200 hour inspection requirements on engine. Replaced RH carb socket. Performed carb sync. Replaced all spark plugs. All operational and leak checks satisfactory and engine is approved for return to service.

Daniel Mcsherry AP3110300

[Signature]

Änderungsstand / Modification record

Lufttüchtigkeitsanweisung bzw. Änderung:
Airworthiness directive or modification:

Ges. Std.:
TSN:

Datum:
Date:

Unterschrift & LFZ W. Nr.:
Signature & Licence no.:

Heart of Virginia Aviation
11152 Airpark Rd
Ashland, VA 23005
N898GS Tach: 706.6



Phone: 804-798-6500
Fax: 804-798-6544
August 31, 2017

Drained oil and removed oil filter. No contaminants found. Replenished engine with 3 quarts of Aeroshell sport plus 4 oil and installed new rotax oil filter, primed engine and verified oil pressure, no leaks found operations check satisfactory
Stephen M Leo AP3678028

[Signature]

Heart of Virginia Aviation
11152 Airpark Rd
Ashland, VA 23005
N898GS



Phone: 804-798-6500
Fax: 804-798-6544
7/10/2018

Hobbs: 760 ATT: 760 ETT: 760 PTT: 760

I certify this engine has been inspected in accordance with the manufactures maintenance and inspection procedures for a 100-hour inspection and was found to be in a condition for safe operation. Engine cylinder compressions 1/85, 2/81, 3/83, 4/85 tested at 87psi. Drained oil and removed filter, no contamination found. Serviced with 3 quarts of aero shell sport 4 oil and added new filter. Removed and replaced expansion pad and serviced engine with dex-cool. Removed and replaced all spark plugs. All operational and leak checks satisfactory and engine is approved for return to service.

Stephen M Leo AP3678028

[Signature]

Heart of Virginia Aviation
11152 Airpark Rd
Ashland, VA 23005
N898GS



Phone: 804-798-6500
Fax: 804-798-6544
7/10/2018

Hobbs: 760 ATT: 760 ETT: 760 PTT: 760

I certify this prop has been inspected in accordance with the manufactures maintenance and inspection procedures for a 100-hour condition inspection and was found to be in a condition for safe operation.

Stephen M Leo AP3678028

[Signature]

Heart of Virginia Aviation
11152 Airpark Rd
Ashland, VA 23005
N898GS Hobbs: 796.1

Drained oil and removed oil filter. No contaminants found. Replenished engine with 3 Liters of oil sport plus 4 and installed new oil filter. Removed and replaced oil return line clamp at bottom of engine due to leaking.
Stephen M Leo AP3678028

Phone: 804-798-6500
Fax: 804-798-6544
Feb 14, 2019



Heart of Virginia Aviation
11152 Airpark Rd
Ashland, VA 23005
N898GS

Hobbs: 822.2 ATT: 822.2 ETT: 822.22 PTT: 822.22

I certify this engine has been inspected in accordance with the manufactures maintenance and inspection procedures for a 100-hour inspection and was found to be in a condition for safe operation. Engine cylinder compressions 1/84, 2/80, 3/82, 4/82 tested at 87psi. Drained oil and removed filter, no contamination found. Serviced with 3 quarts of aero shell sport 4 oil and added new filter Adjusted left carb choke cable; ops checks good after adjustment. Performed carb check/sync. All operational and leak checks satisfactory and engine is approved for return to service.
Stephen M Leo AP3678028

Phone: 804-798-6500
Fax: 804-798-6544
7/23/2019



Heart of Virginia Aviation
11152 Airpark Rd
Ashland, VA 23005
N898GS

Hobbs: 822.2 ATT: 822.2 ETT: 822.22 PTT: 822.22

I certify this prop has been inspected in accordance with the manufactures maintenance and inspection procedures for a 100-hour condition inspection and was found to be in a condition for safe operation.
Stephen M Leo AP3678028

Phone: 804-798-6500
Fax: 804-798-6544
7/23/2019



Heart of Virginia Aviation
11152 Airpark Rd
Ashland, VA 23005
N898GS

Hobbs: 886.7 ATT: 886.7 ETT: 886.7 PTT: 886.7

I certify this engine has been inspected in accordance with the manufacture's maintenance and inspection procedures for a annual condition inspection and was found to be in a condition for safe operation. Drained oil and removed oil filter; containments found. Service external oil sump with 3 liters of Aeroshell Oil Sport Plus 4; oil change was done in accordance with ROTAX SI-912-010. Engine compressions 1/84 2/80 3/81 4/82 @87PSI. Performed carburetor overhaul; removal dismantling, cleaned, removed and replaced carb gaskets and o-rings. (continued on next entry)

(continued from last entry) Removed and applied new Loctite epoxy at carb galleys ball sockets. Reinstalled carbs and performed carb sync. Gearbox friction tested at 55NM. Removed and replaced coolant expansion tank pad on top of engine. Removed and replaced CDI box front mounting bracket and right rubber mount. **Removed and replaced engine fuel hoses.** All operational and leak checks satisfactory and engine is approved for return to service.
Stephen M Leo AP3678028

Phone: 804-798-6500
Fax: 804-798-6544
8/11/2020



Heart of Virginia Aviation
11152 Airpark Rd
Ashland, VA 23005
N898GS

Hobbs: 886.7 ATT: 886.7 ETT: 886.7 PTT: 886.7

I certify this propeller has been inspected in accordance with the manufacture's maintenance and inspection procedures for a annual condition inspection and was found to be in a condition for safe operation. All operational and leak checks satisfactory and propeller is approved for return to service.
Stephen M Leo AP3678028

Phone: 804-798-6500
Fax: 804-798-6544
8/11/2020



Wartungsübersicht / Maintenance record

Datum: Date:	Betriebsstunden: Engine hours:		Durchgeführte Arbeiten: Work performed:	Unterschrift & LFZ Wart Nr.: Signature & Licence no.:
	Gesamt: TSN:	seit letzter GÜ.: TSO:		
9/14/09	37.1		Replaced oil filter Rotax PN 825706 Changed oil w/ Aeroshell Oil Sport plus 4	[Signature] AP 2673856
7/25/10	99.1		Replaced oil filter Rotax PN 825706 Changed oil w/ Aeroshell Oil Sport plus 4	
12/23/10	128.1		changed oil & Filter PN 825706 NO leaks noted	AP 2677106
8/27/11	161.9		Changed oil & filter Rotax PN 825706 Aeroshell Sport plus 4	AP 2677106
12/11/11	194.8	see page 7	oil & filter changed by Lockwood see details in Modification	
6/23/12	230.6		oil & filter changed Rotax filter & Aeroshell Sport plus 4	[Signature]
11/10/12	263.3		oil & filter changed Rotax filter & Aeroshell Sport plus 4	[Signature]
4/4/13	282.2	see page 8	oil & filter changed on annual insp by Lockwood Aeroshell Sport plus 4	[Signature]
5/9/13	317.0		oil & filter changed, Rotax filter Aeroshell Sport plus 4	[Signature]
8/10/13	349.8		oil & filter changed, Rotax filter Aeroshell Sport plus 4	[Signature]
3/1/2010	364.8	see page 7	oil & filter changed / Rotax filter By Lockwood w/o	
10/19/2013	380.9		oil & filter changed / Rotax filter Aeroshell Sport plus 4	[Signature]
4/1/2014	403.6	see page 9	oil & filter change / Rotax filter Aeroshell Sport plus 4 by Lockwood	
8/10/2014	436.9		oil & filter change / Rotax filter Aeroshell Sport plus 4	[Signature]
3/12/2015	462.7		oil & filter change / Rotax filter Aeroshell Sport plus 4	[Signature]
4/17/2015	476.4	see page 9	oil & filter change / Rotax filter Aeroshell Sport plus 4 by Lockwood	

Wartungsübersicht / Maintenance record

15

[illegible]

Heart of Virginia Aviation
11152 Airpark Rd
Ashland, VA 23005
N898GS
Hobbs: 919.7



Phone: 804-798-6500
Fax: 804-798-6544
June 8, 2021
WO# S21-12808

Drained oil and removed oil filter. No contaminants found. Serviced engine with 3
Liters of Sport Plus 4 oil and installed new oil filter. All work was done IAW Rotax
Line Maintenance Manual, 20-12-00, Oil Change procedure. All operational and leak
checks satisfactory at this time.

James Snyder AP3593679

Heart of Virginia Aviation
11152 Airpark Rd
Ashland, VA 23005
N898GS Hobbs: 928.1 ATT: 928.1 ETT: 928.1 PTT: 928.1



Phone: 804-798-6500
Fax: 804-798-6544
9/14/2021

I certify this engine has been inspected in accordance with the manufacture's
maintenance and inspection procedures for a annual condition inspection and was
found to be in a condition for safe operation. Compressions: 1/82, 2/83, 3/80, 4/82.
Prop friction checks: 47.5 NM. Found leaking aft bore at ignition housing. Removed
ignition housing and water pump assembly. Removed and replaced rotary seal and
shaft seal. Reinstalled ignition housing and water pump assembly. Serviced engine
with coolant and ran engine to operating temperatures; ref Rotax Heavy
Maintenance Manual Rev 6 Section 75 3.6-3.10 and Section 72 3.4-3.5. All
operational and no leaks found at this time. Engine is approved for return to service.

Stephen M Leo AP3678028

/ Maintenance record

Durchgeführte Arbeiten:
Work performed:

Unterschrift &
LFZ Wart Nr.:
Signature &
Licence no.:

Heart of Virginia Aviation
11152 Airpark Rd
Ashland, VA 23005
N898GS Hobbs: 928.1 ATT: 928.1 ETT: 928.1 PTT: 928.1



Phone: 804-798-6500
Fax: 804-798-6544
9/14/2021

I certify this propeller has been inspected in accordance with the manufacture's
maintenance and inspection procedures for a annual condition inspection and was
found to be in a condition for safe operation. All operation checks satisfactory, and
prop is approved for return to service.

Stephen M Leo AP3678028

ENGINE LOGBOOK ENTRY

N 898GS Rotax 912ULS2 S/N 5650317

Date: October 15, 2022 Hobbs: 942.7 TET: 942.7

Air filters serviced. Spark plugs serviced. Compression as follows #1 79/80, #2 79/80, #3 77/80, #4 78/80. Visual
inspection completed in accordance with FAR 43 appendix D. Run up and leak check ok. I certify that I have
inspected this engine in accordance with a Condition Inspection and found it to be in a condition for safe flight.

David C. Cramer
A&P 3306549