

ROTAX
AIRCRAFT ENGINES



MOTOR LOGBUCH

ENGINE LOG BOOK

FÜR ROTAX® MOTORTYPEN 2 TAKT UND 4 TAKT

FOR ROTAX® ENGINE TYPES 2 STROKE AND 4 STROKE

Nr. / no.:

Motor-Logbuch Nr.:
Engine Log Book: _____

für Kolbenmotor
for piston engine

1

MAY 3RD 2016
NEW ENGLAND

Baumuster:
Type of engine:

914-422-01

Baureihe:
Model:

Motor-Nr.:

Engine serial no.: 9575241

Hersteller: BRP-Powertrain GmbH & CO KG.
Manufacturer: A-4623 Gunskirchen, Austria

Baujahr:
Year of manufacture:

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.

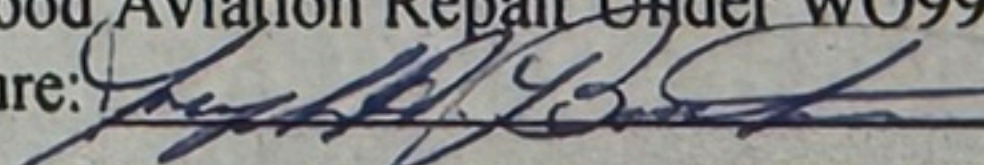
Bemerkungen:
Remarks:

Datum:
Date:

Unterschrift:
Signature:

2

Motor Ein- und Ausbau Übersicht / Engine installation record

Luftfahrzeug: Aircraft:		Datum: Date:		Betriebsstunden Engine hours:		Unterschrift & LFZ. Wart Nr.: Signature & Licence no.:
Kennz.: Registr.:	Type: type:	Einbau: in:	Ausbau: out:	Gesamt: TSN	seit letzter GÜ.: TSO	
NEW ENGINE INSTALL S/N 9575241		3-May-2016 N484X 914UL S/N 9575241 Hobbs: 388.9 ET: -0- C/W Annual/100 Hour Condition Inspection. Checked all Rotax Engine service bulletins for compliance. Removed 914UL S/N 7682597 and installed new Rotax 914UL S/N 9575241, removed and installed new fuel pumps S/N's 15089 & S/N 150810. Installed new capacitor. C/W SI-914-018 Purging of the Lubrication System and Hydraulic Valve Tappet Check - checked OK. Performed engine test run, OP's checked good, no leaks detected. Engine was found to be in a condition for safe operation. I certify this engine has been inspected I/A/W Rotax inspection and maintenance 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 WO9970. Signature:  Joseph A. Benton, A&P 3138153				

Motor Ein- und Ausbau Übersicht / Engine installation record

3

Kennz.: Registr.:	Luftfahrzeug: Aircraft:	Type: type:	Einbau: in:	Ausbau: out:	Datum: Date:	Betriebsstunden: Engine hours:	Gesamt: TSN:	seit letzter GÜ.: TSO:	Unterschrift & LFZ. Wart Nr.: Signature & Licence no.:
6/28/16					28 June 2016.	N484X. Hobbs 423.0. Eng SNew 34.1.	Changed oil & filter, serviced with 3 liters A/S Sport Plus 4 10w40, Rotax 825012 filter, took SOAP sample. Checked magnetic plug – ok. Inspected filter media – ok. Lubed wastegate shaft with Mouse Milk. Paul A. Slaughter, A&P 2787643. <i>Paul A. Slaughter</i>		

8/26/16					26 August 2016.	N484X. Hobbs 452.5. Eng SNew 63.6.	Changed oil & filter, serviced with 3 liters A/S Sport Plus 4 10w40. Rotax 825012 filter. took SOAP sample. Checked magnetic plug – ok. Inspected filter media – ok. Lubed wastegate shaft with Mouse Milk. Paul A. Slaughter, A&P 2787643. <i>Paul A. Slaughter</i>		
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11/16 2016					16 November 2016.	N484X. Hobbs 478.6. Eng SNew 89.7.	Changed oil & filter, serviced with 3 liters A/S Sport Plus 4 10w40, Rotax 825012 filter, took SOAP sample. Checked magnetic plug – ok. Inspected filter media – ok. Lubed wastegate shaft with Mouse Milk. Paul A. Slaughter, A&P 2787643. <i>Paul A. Slaughter</i>		
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21-February-2017 N484X 914UL S/N 9575241 ETT: 121.2 AFTT: 510.6
 Changed oil and filter: Cleaned oil tank installed new Rotax oil filter and serviced with Aeroshell Sport +4 oil - Leak checked OK. Lubricated turbo waste gate. Inspected exhaust for cracks - no cracks detected.
 All work completed I/A/W Rotax M/M. Pertinent details can be found on file @ Lockwood Aviation Repair Under WO10466.
 Signature: *Joseph A. Benton* Joseph A. Benton, A&P 3138153

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SB-Stand und Änderungsstand / SB-Status and Modification record

Status der durchgeführten SB (Service Bulletin) bei 0-Stunden
Airworthiness directive or modification:

Datum:
Date:

Unterschrift & Pers. Nr.:
Signature & Licence no.:

Status der durchgeführten Änderungen bei 0-Stunden
Airworthiness directive or modification:

Datum:
Date:

Unterschrift & Pers. Nr.:
Signature & Licence no.:

Änderungsstand / Modification record

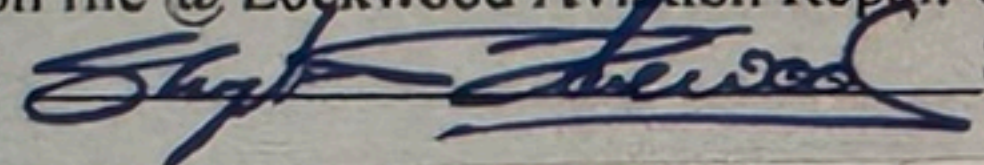
5

Lufttüchtigkeitsanweisung bzw. Änderung:
Airworthiness directive or modification:

Ges. Std.:
TSN:

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

24-April-2017 N848X 914UL S/N 9575241 ETT: 131.6
C/W Annual/100 Hour Condition Inspection. Cleaned oil tank installed new Rotax oil filter and serviced with Aeroshell Sport +4 oil - Leak checked OK. C/W SI-912-018 Purging of the Lubrication System and Hydraulic Valve Tappet Check - checked OK. Gapped, applied heat transfer paste, and installed 8 new DPR9EA spark plugs. C/W Rotax 100 Hour Diff. Compression Test, Results: Cyl 1: 78/80psi, Cyl 2: 80/80psi, Cyl 3: 80/80psi, Cyl 4: 80/80psi. C/W 200 Hour Spark Plug Connector Pull-off check - checked OK. C/W Rotax Annual Carburetor Float Bowl Inspection - checked OK. Replace voltage regulator. Installed new regulator rectifier - OP's checked OK. SB-912-067UL Replacement of Carburetor Floats Installed 4 new floats. I certify this engine has been inspected I/A/W Rotax inspection and maintenance 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 WO10572.

Signature:  Stephen T. Underwood, A&P 3505605

30 June 2017. N484X. Hobbs 547.8. Changed oil & filter, serviced with 3 liters A/S Sport Plus 4, Rotax 825012 filter, took SOAP sample, checked magnetic plug. Lubed wastegate shaft with Mouse Milk. Paul A. Slaughter, A&P 2787643.

ENGINE TIME 6/30/2017 11158.9



Änderungsstand / Modification record

Lufttüchtigkeitsanweisung bzw. Änderung:
Airworthiness directive or modification:

Ges. Std.:
TSN:

Datum:
Date:

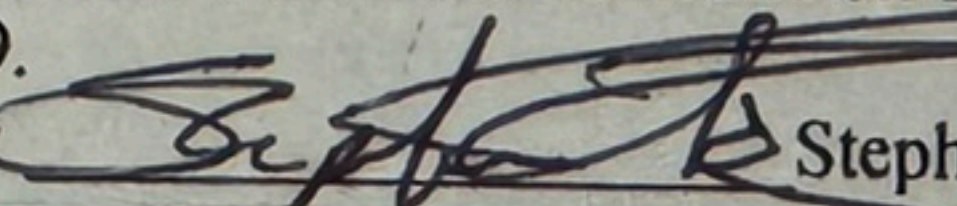
Unterschrift & LFZ W. Nr.:
Signature & Licence no.:

1-June-2018 N484X 914UL S/N 9575241 Hobbs: 582.3 *ETT: 193.476.*
C/W Annual/100 Hour Condition Inspection. Changed oil and filter: Cleaned oil tank installed new Rotax oil filter and serviced with Aeroshell Sport +4 oil - Leak checked OK. C/W Venting of the Oil System. Gapped, applied heat transfer paste, and installed 8 new X27EPR-U9 spark plugs. C/W SI-912-018 Purging of the Lubrication System and Hydraulic Valve Tappet Check - checked OK. Performed Pneumatic Carburetor Sync and Idle adjustment. 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: 80/80 psi, Cyl 4: 78/80psi. Removed & Reinstalled carburetors to C/W 200 Hour Carburetor Service Requirement per SI-912-021 Inspection of Carburetors. C/W Rotax Annual Carburetor Float Bowl Inspection - removed and installed new float bowls (1/3) P/N 963235 & (2/4) P/N 963237. C/W Rotax 100 Hour checking of the ventilation of the float chambers - checked OK.

2 of 2

1-June-2018 N484X 914UL S/N 9575241 Hobbs: 582.3 *ETT: 193.476.*
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 - checked OK. C/W 5-Year Tecnam Rubber Component replacement: Removed and replaced all oil, coolant and fuel hoses. Drained coolant system and serviced with DexCool 50/50 - Leak checked OK. Installed new carburetor sockets. All systems OP's & Leak Checked OK. Tightened Alternator "V" belt to spec. I certify this engine has been inspected I/A/W Rotax inspection and maintenance 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 WO11189.

Signature:

 Stephen T. Underwood, A&P 3505605

30 July 2018. N484X. Hobbs 603.2. Changed oil & filter, serviced with 3 liters A/S Sport Plus 4, Rotax 825016 filter, took SOAP sample, checked magnetic plug. Lubed wastegate shaft with Mouse Milk. Checked torque on carb bowl bolts. Paul A. Slaughter, A&P 2787643. *Paul A. Slaughter*

Änderungsstand / Modification record

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Lufttüchtigkeitsanweisung bzw. Änderung:
Airworthiness directive or modification:

Ges. Std.:
TSN:

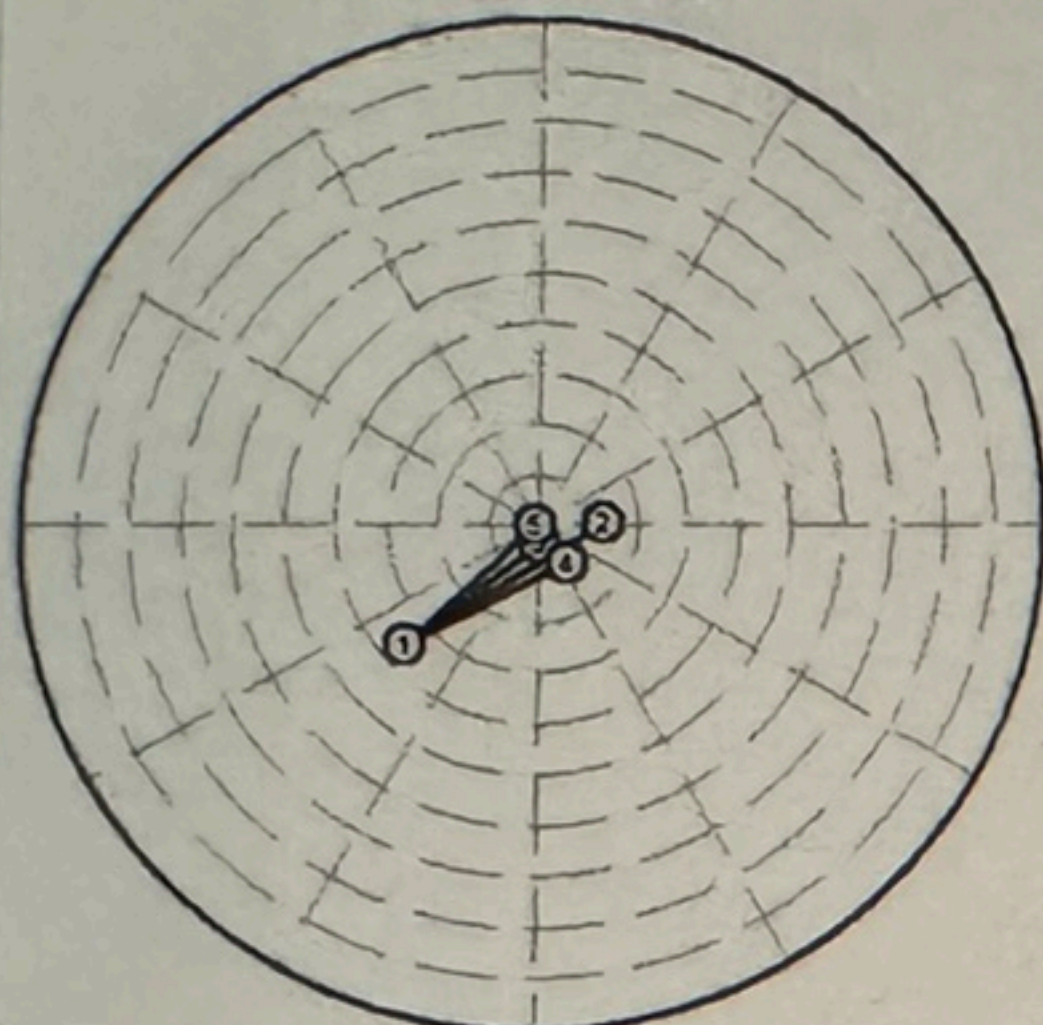
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Date:

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

20 December 2018. Engine total time 258.7 hrs. Changed oil and filter, serviced with 3 liters A/S Sport Plus 4, 825016 Rotax filter, inspected filter, checked magnetic plug. Performed compression check: #1 76/80, #2 76/80, #3 77/80, #4 76/80. Serviced spark plugs. Checked gearbox friction torque: 44 ft lbs. Weighed carb floats: Rt 6.1 g, Lt 6.1 g. Lubed wastegate. Checked carb synchronization. Replaced muffler with new Rotax p/n 979406, s/n 17,0061 due to cracking. I certify that this Engine has been inspected on 20 December 2018 in accordance with the manufacturer's maintenance and inspection procedures, and was found to be in a condition for safe operation. Paul A. Slaughter, AP 2787643. *Paul A. Slaughter*

PROP/ENG DYNAMICALLY BALANCED

— POLAR PLOT - 1.0 IN/S FS —



N484X P2008 076 647.6 Hrs.
914
PROP BAL
MicroVib II SN:1305 Cal:09/26/2018
Init:0.350 IN/S @ 1508 RPM Final:0.004 IN/S @ 1489 RPM
Operator Comments:
Strobe mounted on top of #4 cylinder, accelerometer mounted on back of gear box.

Oper. *Paul A. Slaughter* AP2787643
Date: 12/20/2018 PA Slaughter

Änderungsstand / Modification record

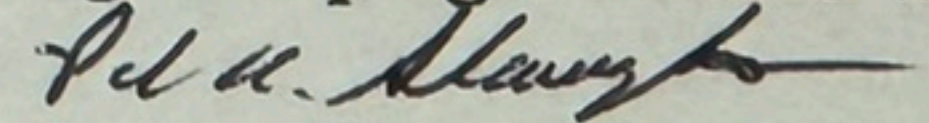
Lufttüchtigkeitsanweisung bzw. Änderung:
Airworthiness directive or modification:

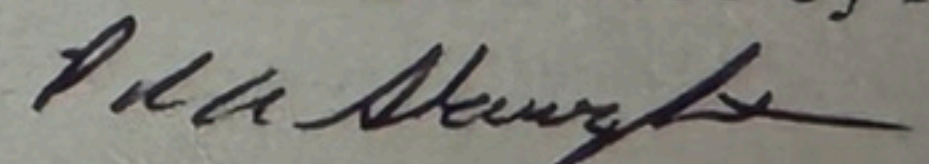
Ges. Std.:
TSN:

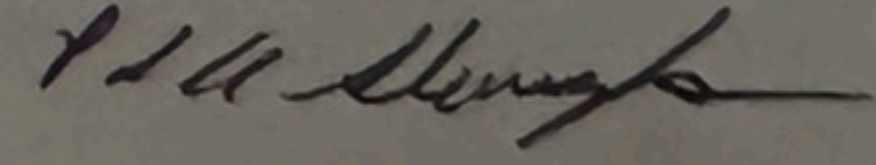
Datum:
Date:

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

21-May-2019 N484X 914UL S/N 6784546 ETT: 283.6 AFTT: 672.5
Changed oil and filter: Cleaned oil tank installed new Rotax oil filter and serviced with Aeroshell Sport +4 oil - Leak checked OK. C/W Venting of the Oil System. Cleaned and retightened clamps to 1/3 carburetor to Air Box connection - checked torque on 1/3, 2/4 carburetor bowls, re-safety wired carburetor bowls. Removed banjo bolt and replaced gasket rings on 1/3 side fuel regulator - OP's & Leak checked OK. Performed engine run-up, OP's checked good, no leaks detected. Cleaned waste gate with mouse milk penetrating oil. Worked waste gate to free up. Installed anti-seize on waste gate shaft. Performed run-up - OP's checked OK. Adjusted idle to 1700 rpm.
All work completed I/A/W Rotax M/M. Pertinent details can be found on file @ Lockwood Aviation Repair Under WO11915.
Signature:  Ekerd Smith, IRMT #440813181103-1155

25 June 2019. N484X. Hobbs 691.0. Changed oil & filter, serviced with 3 qts Amsoil Metirc 10w40, Rotax 825016 filter, checked magnetic plug. Cleaned wastegate shaft with Mouse Milk, lubricated with anti-seize. Paul A. Slaughter, A&P 2787643. 

20 February 2020. Engine total time 313.3 hrs. Changed oil and filter, serviced with 3 liters Amzoil 10w40 Metric oil, 825016 Rotax filter, inspected filter, checked magnetic plug. Performed compression check: #1 78/80, #2 78/80, #3 78/80, #4 78/80. Replaced spark plugs, X27EPR-U9. Checked gearbox friction torque: 34 ft lbs. Weighed carb floats: Rt 6.2 g, Lt 6.0 g. Lubed wastegate. Adjusted carb synchronization. C/W SB-914-055 by replacing circlips with p/n 945786 & o-rings in both carbs. Paul A. Slaughter, AP 2787643. 

25 June 2020. N484X. Hobbs 725.0. Changed oil & filter, serviced with 3 qts Amsoil Metirc 10w40, Rotax 825016 filter. Cleaned wastegate shaft with Mouse Milk, lubricated with anti-seize. Paul A. Slaughter, A&P 2787643. 

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.:

19 August 2020. N484X. Acft total time 727.8. Engine total time 338.9. Reduced prop blade pitch 1°. Replaced turbocharger Rotax p/n 887129, Hartzell p/n 466661-006, s/n H-WHL00163. Paul A. Slaughter, A&P 2787643.

* NOTE: AUGUST 19 2020 AIRCRAFT TOTAL TIME 727.8
NEW ENGINE TIME 338.9

18 November 2020. Engine total time 348.7 hrs. Changed oil and filter, serviced with 3 quarts Amzoil 10w40 Metric oil, 825016 Rotax filter, inspected filter, checked magnetic plug. Performed compression check: #1 77/80, #2 76/80, #3 78/80, #4 76/80. Replaced spark plugs, X27EPR-U9. Checked gearbox friction torque: 40 ft lbs. Weighed carb floats: Rt 6.2 g, Lt 6.1 g. Cleaned & lubed wastegate. Replaced external alternator with new unit, Rotax p/n 887251, s/n 101211-1020. Replaced Rotax regulator p/n 362001, s/n 2005. Installed new 100,000µF capacitor. 5 year items due June 2023. Paul A. Slaughter, AP 2787643.

1 November 2021. Engine total time 372.9 hrs. Changed oil and filter, serviced with 3 liters Amzoil 10w40 Metric oil, 825016 Rotax filter, inspected filter, checked magnetic plug. Performed compression check: #1 80/80, #2 80/80, #3 78/80, #4 80/80. Serviced spark plugs. Checked gearbox friction torque: 45 ft lbs. Weighed carb floats: Rt 6.3 g, Lt 6.1 g. Cleaned & lubed wastegate. Paul A. Slaughter, AP 2787643.

4/9/22 Charge resistor / Regulator Ducati SN 362001

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Datum:
Date:

2823 East Empire Street
Bloomington, Illinois 61704
United States
Telephone: (309)828-4448
Fax: (309)828-4458
info@synergyfbo.com

SYNERGY FLIGHT CENTER

Log Book Entry

May 25, 2022
FAACRS 8SGR199C
www.synergyfbo.com

Signature &
Part Nr.:
Signature &
Part Nr.:
Signature &
Part Nr.:

Manufacturer:
Part/Model number:
Work Order No: R1811

TSN/TSO: 412.70 / N/A
Serial Number: N/A
Date: 05/25/2022

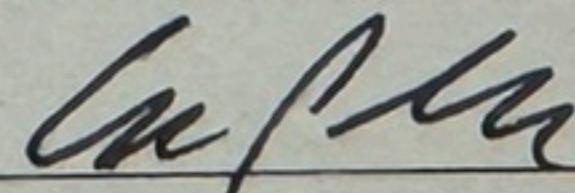
CSN/CSO: N/A / N/A

Squawk

- 2.1** AIRCRAFT TT: 802.3 ENGINE TIME: 412.7
REMOVED COWLING. REMOVED WASTEGATE SERVO CABLE GUIDE STANDOFF. INSTALLED COWLING. ALL WORK
PERFORMED IAW AC43.13-1B.
- 2.2** REMOVED PRESSURE SPRING AND REPLACED WITH PN: 838122, CONDITION NEW. REMOVED 8.5MM BALL BEARING AND
REPLACED BALL BEARING WITH VALVE PISTON PN: 857230, CONDITION NEW. ALL WORK WAS DONE IAW ROTAX 914
SERIES 79-00-00 AND IPC FIG. 79-20-00-2.
- 2.3** REMOVED AND REPLACED THE OIL PRESSURE SENDER. PERFORMED POST-MAINTENANCE ENGINE GROUND RUN, OPS AND
LEAK CHECK GOOD. ALL WORK PERFORMED IAW IAW THE TOTAX 914 MANUAL. I CERTIFY THAT THE WORK DESCRIBED
ABOVE HAS BEEN INSPECTED AND IS DETERMINED TO BE IN AN AIRWORTHY CONDITION WITH RESPECT TO THE WORK
PERFORMED.

These items identified above were repaired and/or inspected in accordance with current Federal Aviation Regulations and the repairs are
approved for return to service. Pertinent details of these repairs are on file at the repair station under Work Order Number R1811.

Signature :



Date :

25 May 2022

*** End of Document ***

2823 East Empire Street
Bloomington, Illinois 61704
United States
Telephone: (309)828-4448
Fax: (309)828-4458
info@synergyfbo.com

SYNERGY FLIGHT CENTER

Log Book Entry

January 13, 2023
FAACRS 8SGR199C
www.synergyfbo.com

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Signature &
Z Wart Nr.:
signature &
licence no.:

Manufacturer: Rotax Ltd
Part/Model number: ROTAX914
Work Order No: R2094

TSN/TSO: 467.00 / N/A
Serial Number: 9575241
Date: 01/13/2023

CSN/CSO: N/A / N/A

Squawk

- 2.1** TACH/ATT 856.7
CHANGED OIL AND FILTER. INSPECTED FILTER. CHECKED MAGNETIC PLUG. INSTALLED A ROTAX 825016 FILTER. ADDED
AMSOIL METRIC 10W40 OIL. COMPRESSION #1 75/80, #2 76/80, #3 78/80, #4 75/80. LUBED WASTEGATE.
- 2.2** REMOVED AND REPLACED OIL COOLER/RADIATOR SHOCK MOUNTS WITH CUSTOMER SUPPLIED PARTS.
- 2.3** FABRICATED AND INSTALLED A PATCH ON COOLANT LINE HEAT SHIELD NEAR EXHAUST ON RH SIDE.
- 2.4** REMOVED AND REPLACED STAND-BY ALTERNATOR BELT WITH CUSTOMER SUPPLIED PART, GATES TRUFLEX 1265.
- 2.6** PERFORMED ANNUAL CONDITION INSPECTION IAW ROTAX 914 MAINTENANCE MANUAL.
I CERTIFY THAT THIS AIRCRAFT HAS BEEN INSPECTED IN ACCORDANCE WITH THE MANUFACTURERS MAINTENANCE
MANUAL AND INSPECTION PROCEDURES AND IS FOUND TO BE IN A SAFE CONDITION FOR OPERATION.

These items identified above were repaired and/or inspected in accordance with current Federal Aviation Regulations and the repairs are approved for return to service. Pertinent details of these repairs are on file at the repair station under Work Order Number R2094.

Signature : Michael J. Jiles

Date : 12 / 09 / 2022

*** End of Document ***

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Wartungsübersicht / Maintenance recordDatum:
Date:Betriebsstunden:
Engine hours:Durchgeführte Arbeiten:
Work performed:Gesamt:
TSN:seit letzter GÜ.:
TSO:Unterschrift
LFZ Wart N
Signature &
Licence no.:

wo: 120123NR2

Engine · page 1 of 1



TACH 505.9

Aeropro · 70 Main St. Suite 23 · Warrenton, VA 20186 · 2059559828

N484X**January 27, 2024**

Perform ANNUAL CONDITION INSPECTION IAW ROTAX 914 MAINTENANCE MANUAL Compressions #1 79/80, #2 79/80, #3 79/80 #4 78/80 Drain oil and replace filter, Engine Inspection, Installed P/N 08-06100 - Oil Filter, Rotax, Serviced with customer provided AMSOIL 10W40 OIL, Installed (2) P/N 09-05316 - SILICONE HEAT TRANSFER COMPOUND, Install new rotax spark plugs Installed (8) P/N 297656 - ROTAX CERTIFIED SPARK PLUG.

2. Install new float chambers / floats on carburetors / comply with rotax SB-912-074 / SB-914-056. P/N 963-236, P/N 963-238, (2) P/N 631-771, (2) P/N 830-721, (2) P/N 861189. 3. adjust alternator belt.

4. Clean and flush tank, fill to normal level.

I certify that this engine and propeller, has been inspected IAW with an ANNUAL CONDITION INSPECTION using manufacturers approved maintenance manuals, and is in a AIRWORTHY condition at this time.

With respect to the work performed, this engine is approved for return to service. Details of work performed are on file with Aeropro under work order: 120123NR2.

Jimmy Garrison A&P/IA 3583426

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:		
12/30/24	562.6	Drain oil, remove filter; serviced with oil - AmSOIL Metric 10W-40, installed new oil filter # AA825706 Inspected Engine, performed post-maintenance Run-up, No leaks found, and all engine perimeters nominal. With respect to work performed, this engine is approved for return-to-service. Details on file with Resicum International LCC / Aeropus work order: Jan 2025 NRS.	Angele M. Picinille PP 5088007 