



The Standard

AIRCRAFT LOG

ASA-SA-1

Aircraft Record General Information

Manufacturer SportCopter Russell W Dyer Model Vortex

Serial 011 Registration Number N425RD

Date of Manufacture 2019

Engine(s) currently installed:

Manufacturer ROtax Model 582 Bluehead Serial 5589597

Manufacturer _____ Model _____ Serial _____

Propeller(s) currently installed:

Manufacturer _____ Model _____

HUB Model _____ Serial _____ Serial _____

Blade Model _____ Serial _____ Serial _____ Serial _____

Blade Model _____ Serial _____ Serial _____ Serial _____

Registered Owner Record

Name Dyer Russell W

Address [REDACTED]

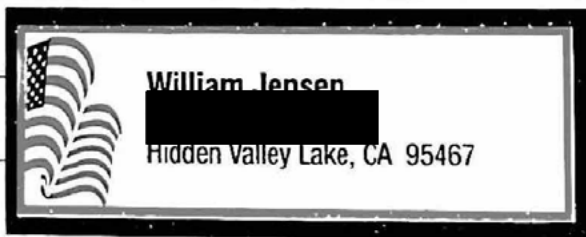
City Keizer

State OR

From _____

To _____

Name _____



Address _____

City _____

From 11/2/2021

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Port Copter Vortex 582 Hour and Annual Check List*

* Do 25, 50 and 100 Hour Inspections for Annual

Inspection: ANNUAL*

Date: 11/9/2021

Aircraft Serial No: 011 / 57 hours By:  and AEP

25 Hour Inspection:

- ☒ Air cleaner: clean and oiled
- ☒ Spark plugs: color/condition/replace (torque cold) 13/16 Socket - 20 ft. lbs - 240 inch lbs
- ☒ Radiator: clean. Coolant level: check.
- ☒ Prerotator inner flex shaft cable: remove, check condition, grease end, reinstall — check for breaking. See Page 80 POH
- ☒ Bendix gear, and ring gear: check for excessive wear. See Page 81 POH
- ☒ Teeter tower DU bushings: inspect for wear, clean (but do not grease) reassemble.
(Remove spools, look for green Teflon. If bronze, Teflon gone, replace bushings).
- ☒ Teeter bolt: check for fretting or unusual wear. Retorque - 15 ft. lbs - 180 inch lbs
- ☒ Rivets holding ring gear to ring gear plate: check for security.
- ☒ All rod ends in control system: check for side and end play.
- ☒ Tires: check for damage and correct pressure - Nose 12 psi - Mains - 20 psi
- ☒ Elastomeric rubber mast bushing: check.
- ☒ Rotorbrake cable: check and lubricate.
- ☒ Walk-around to detect any fluid leaks: perform.

50 Hour Inspection:

- ☒ 25 hour Inspection: complete.
- ☒ Propeller: check for security & condition, re-torque -
Clamping 10 ft lbs - 120 inch lbs / Mounting 15 ft lbs - 180 inch lbs
- ☒ Engine mounts: check for wear and cracks.
- ☒ All rod ends in control system: Inspect.
- ☒ Rudder cables and horns: check for excessive wear.
- ☒ Nosewheel steering: check freedom of movement.
- ☒ Pedals: check freedom of movement; lubricate pivot points.
- ☒ Wheel bearings: check for smoothness and end play.
- ☒ Rudder: check for cracks.
- ☒ Main control tube front and rear "L" bracket pivot points: check for excessive play.
- ☒ Oil lines and fittings: check for leaks, chafing, dents, cracks.
- ☒ Mast and undercarriage: check for cracks or distortion.

100 Hour Inspection:

- ☒ 25 and 50 hour Inspections: complete.
- ☒ Hub bar: check for cracks with 10X loupe and a dye penetrant.
Halt any corrosion with application of ACF-50.
- ☒ Rotorblades: remove from straps; inspect for cracks, damage.
- ☒ Rotor bearing: Inspect for loss of grease. Inspect for runout using a dial indicator pushing the ring gear up and down, not flexing it.)
- ☒ Radiator mounts: check for chafing and the system for leaks.
- ☒ Compression on each cylinder: check.
- ☒ Cables: check all for wear.
- ☒ All rod ends in control system: relube.
- ☒ Fuel filter: change.
- ☒ Rotorhead bolts: check for proper torque and unusual wear - 15 ft lbs - 180 incl
- ☒ Windshield: clean, check for cracking, crazing, general condition.
- ☒ Upholstery: check for any tears, fraying.
- ☒ Shocks and springs: check for cracks, weakness.
- ☒ Bare steel shafts (axles, etc.): for rust-prevention, apply a thin uniform coating of red & tacky NGLI-2 lithium grease: Lucas 
Check every 100 hours or whenever grease may be removed.

200 Hour Inspection:

- ☐ 25, 50, and 100 hour Inspections: complete.
- ☐ Wheels: remove, clean, and repack bearings. thin coating of ACF-50 on wheel beads

300 Hour Inspection:

- ☐ 25, 50, 100, and 200 hour Inspections: complete.
- ☐ Fuel hoses: replace all.
- ☐ Coolant hoses and coolant: replace.
- ☐ Throttle shaft: check for excessive wear.
- ☐ Engine. overhauil.

400 Hour Inspection:

- ☐ 25, 50, 100, 200, and 300 hour Inspections: complete.
- ☐ Rotor bearing: recommend replacing, on condition.
- ☐ All rod ends in control system: replace.
(OEM is Aurora, and a pair of them are special order. Call us.)

1000 Hour Inspection:

- ☐ 25. 50. 100, 200, 300, and 400 hour Inspections: complete.

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YEAR 20 <u>20</u> DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
6/15	29		1 Hr	Full inspection of aircraft Brakes, Nose wheel, rotor head, rotor blades all in good working order. [REDACTED]

TOM'S AIRCRAFT ENTERPRISES

4475 Highland Springs Road
Lakeport, CA. 95453
(707) 263-9330

Reg: N425RD Make: Sportcopter Vortex S/N: 011
Date: 11-10-2021 TT: 57.0 Hobbs: 85.0

Scope & Detail Inspection

I certify that this aircraft has been inspected on 11/10/2021 in
accordance with an Annual Condition Inspection & was found to be in
condition for safe operation.

[REDACTED]
Chad E. Parlee A&P [REDACTED]