

Cover

AIRCRAFT LOG

AF5-1

#2

AIRCRAFT DESCRIPTION

MANUFACTURER ROBINSON HELICOPTER CO. MODEL R44 RAVEN II

DATE OF MFG. _____

SERIAL NUMBER 11120 REGISTRATION NUMBER N163RK

REGISTERED OWNER _____

STREET ADDRESS _____

CITY, STATE, ZIP _____

OPERATOR _____

STREET ADDRESS _____

CITY, STATE, ZIP _____

REGISTERED OWNER _____

STREET ADDRESS _____

CITY, STATE, ZIP _____

OPERATOR _____

STREET ADDRESS _____

CITY, STATE, ZIP _____

Inspection Status (Check one)



F.A.R. 91.409 ANNUAL/100 HOUR



F.A.R. 91.409 PROGRESSIVE



F.A.R. 135.419 A.T.C.O.



OTHER

DATE ENTERED _____

MAINTENANCE RESPONSIBILITY _____

INSTALLED EQUIPMENT

ITEM	MANUFACTURER	MODEL	SERIAL NO.
ENGINE	TEXTRON LYCOMING	IO-540-AE1A5	E-30914-48A L-31601-48A
INST. CLUSTER	ROCHESTER	B144-4	1582
OAT GAUGE	DAVTRON	307 FC	A09284
ALTIMETER	UNITED INSTRUMENTS	5934P-3	448902
VERT. SPEED	UNITED INSTRUMENTS	7000	313792
AIRSPPEED	UNITED INSTRUMENTS	8000	191708
MANIFOLD PRESS.	UNITED INSTRUMENTS	6111	191037
TACHOMETER	PHAOSTRON	C792-4	4644
GOVERNOR	ROBINSON HELICOPTER CO.	D278-2	1803
TRANSCIEIVER	BENDIX/KING	KY196A	30374
VERT. CARD COMPASS	PRECISION AVIATION	PAI-700	57616
DIRECTIONAL GYRO	BF GOODRICH	205-1B	505003190325783
ATTIT GYRO W/INCL	BF GOODRICH	110014S	504011192725580
TRANSPONDER	GARMIN	GTX327	83720677
BLIND ENCODER	TRANS CAL	SSD120-30A	A64384
AUDIO CONTROL	NAT	AA12S-002	1396
GPS/COM	GARMIN	GNC420	97203358
CHRONOMETER	ASTROTECH	LC-2	C10-10270

LIFE LIMITED PARTS OR OVERHAUL REQUIREMENTS

NAME OF PART	PART NUMBER	SERIAL NUMBER	INSTALLATION DATE/HOURS	TIME ON PART AT INSTALL	LIFE LIMIT OR T.B.O.	REMOVAL DATE/HOURS	AGENCY CERT. NO.
MR Gearbox	C006-6	1955	2-25-2015 4301.7	Overhauled 0 TSOH	2200 TBO		Old City Helicopter Sales, LLC CRS # O8DR071L
MR Blade	C016-7	4608	2-25-2015 4301.7	New 0 TT	2200 life 12Years		Old City Helicopter Sales, LLC CRS # O8DR071L
MR Blade	C016-7	4642	2-25-2015 4301.7	New 0 TT	2200 life 12Years		Old City Helicopter Sales, LLC CRS # O8DR071L
MR Swashplate	C017-6	2378	2-25-2015 4301.7	New 0 TT	2200 TBO		Old City Helicopter Sales, LLC CRS # O8DR071L
Frame Assy	C020-1	7701	2-25-2015 4301.7	New 0 TT	2200 Life		Old City Helicopter Sales, LLC CRS # O8DR071L
TR Gearbox	C021-1	5739	2-25-2015 4301.7	Overhauled 0 TSOH	2200 TBO		Old City Helicopter Sales, LLC CRS # O8DR071L
Tailcone Assy	C023-1	7193	2-25-2015 4301.7	New 0 TT	4400 Life		Old City Helicopter Sales, LLC CRS # O8DR071L
TR Blade	C029-3	3425	2-25-2015 4301.7	New 0 TT	2200 life 12Years		Old City Helicopter Sales, LLC CRS # O8DR071L
TR Blade	C029-3	3426	2-25-2015 4301.7	New 0 TT	2200 life 12Years		Old City Helicopter Sales, LLC CRS # O8DR071L
TR Hub	G062-1	2465	2-25-2015 4301.7	New 0 TT	2200 Life		Old City Helicopter Sales, LLC CRS # O8DR071L
TR Pitch Control	C031-1	8609	2-25-2015 4301.7	New 0 TT	2200 TBO		Old City Helicopter Sales, LLC CRS # O8DR071L
Horiz. Strab.	C044-1	7949	2-25-2015 4301.7	New 0 TT	4400 Life		Old City Helicopter Sales, LLC CRS # O8DR071L
Actuator	C051-2	2213	2-25-2015 4301.7	Overhauled 0 TSOH	2200 TBO		Old City Helicopter Sales, LLC CRS # O8DR071L
MR Gearset	C146-5	8212	2-25-2015 4301.7	New 0 TT	2200 Life		Old City Helicopter Sales, LLC CRS # O8DR071L
MR Hub	C154-1	8437	2-25-2015 4301.7	New 0 TT	2200 Life		Old City Helicopter Sales, LLC CRS # O8DR071L
MR Spindle	C158-1	17892	2-25-2015 4301.7	New 0 TT	2200 Life		Old City Helicopter Sales, LLC CRS # O8DR071L
MR Spindle	C158-1	17901	2-25-2015 4301.7	New 0 TT	2200 Life		Old City Helicopter Sales, LLC CRS # O8DR071L
Clutch Shaft	C166-4	9016	2-25-2015 4301.7	New 0 TT	2200 TBO		Old City Helicopter Sales, LLC CRS # O8DR071L

LIFE LIMITED PARTS OR OVERHAUL REQUIREMENTS

NAME OF PART	PART NUMBER	SERIAL NUMBER	INSTALLATION DATE/HOURS	TIME ON PART AT INSTALL	LIFE LIMIT OR T.B.O.	REMOVAL DATE/HOURS	AGENCY CERT. NO.
Bearing Assy	C181-3	3204	2-25-2015 4301.7	Overhauled 0 TSOH	2200 TBO		Old City Helicopter Sales, LLC CRS # O8DR071L
Sprag Clutch	C188-3	9912	2-25-2015 4301.7	New 0 TT	2200 TBO		Old City Helicopter Sales, LLC CRS # O8DR071L
TR Driveshaft	D196-1	6483	2-25-2015 4301.7	New 0 TT	4400 TBO		Old City Helicopter Sales, LLC CRS # O8DR071L
MR Driveshaft	C251-2	R2842	2-25-2015 4301.7	Overhauled 0 TSOH	2200 TBO		Old City Helicopter Sales, LLC CRS # O8DR071L
MRGB Sump	C263-2	5609	2-25-2015 4301.7	New 0 TT	2200 TBO		Old City Helicopter Sales, LLC CRS # O8DR071L
MRGB Housing	C264-2	8107	2-25-2015 4301.7	New 0 TT	2200 TBO		Old City Helicopter Sales, LLC CRS # O8DR071L
TR Gearset	C545-1	8854	2-25-2015 4301.7	New 0 TT	2200 TBO		Old City Helicopter Sales, LLC CRS # O8DR071L
TR Guard	D079-1	9006	2-25-2015 4301.7	New 0 TT	2200 TBO		Old City Helicopter Sales, LLC CRS # O8DR071L
Hyd. Resv.	D211-2	2388	2-25-2015 4301.7	Overhauled 0 TSOH	2200 TBO		Old City Helicopter Sales, LLC CRS # O8DR071L
Hyd. Servo	D212-1	6984A	2-25-2015 4301.7	Overhauled 0 TSOH	2200 TBO		Old City Helicopter Sales, LLC CRS # O8DR071L
Hyd. Servo	D212-1	1588A	2-25-2015 4301.7	Overhauled 0 TSOH	2200 TBO		Old City Helicopter Sales, LLC CRS # O8DR071L
Hyd. Servo	D212-1	3415A	2-25-2015 4301.7	Overhauled 0 TSOH	2200 TBO		Old City Helicopter Sales, LLC CRS # O8DR071L
Hyd. Pump Assy	D500-1	1642	2-25-2015 4301.7	Overhauled 0 TSOH	2200 TBO		Old City Helicopter Sales, LLC CRS # O8DR071L
TR Guard	D079-1	13197	08-10-2022 5389.8	New	2200 TBO		Old City Helicopter Sales, LLC CRS # O8DR071L

AIRWORTHINESS DIRECTIVE/FACTORY BULLETIN COMPLIANCE RECORD

A.D./BULL. NUMBER	ITEM AFFECTED	DATE & HRS. AT COMP.	METHOD OF COMPLIANCE	TYPE OF A.D. 1 TIME/RECUR.	NEXT COMP. DATE/HRS./CYCLE	AUTHORIZED SIGNATURE CERTIFICATE NO.
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All Robinson Service Bulletins complied with through SB-88. All FAA Airworthiness Directives complied with through biweekly issue # 2015-04 as applicable during Overhaul and Annual Inspection by Old City Helicopter Sales, LLC under WO # 140007.

Old City Helicopter Sales, LLC - CRS 08DR0711

2/25/2015
Date

- NI63RK Robinson R44 Raven II S/N 11120 Hobbs 4321.8 TT 4321.8
- Performed SB-89 Main Rotor blade modification IAW Robinson maintenance manual and video instructions
- Above using Rotor blades C016-7 kit p/n R7769 MR blade mod I/I 11Rev/a
- Installed new left skid cap cover /painted black

Mike Phillips A/P 3324927 *Mike Phillips* May 31, 2015

SB-90	cur speed ind	8/14/17 4379.9	applied decal	1 time	NA	Hubt Wblcr CRS# 08DR0711L
SB-91	cur speed fuse	8/14/17 4379.9	installed fuse	1 time	NA	Hubt Wblcr CRS# 08DR0711L
SB-92	TRDS decap	8/14/17 4379.9	applied adhesive	1 time	NA	Hubt Wblcr CRS# 08DR0711L
SB-93A	horiz stab	8/14/17 4379.9	checked torque	1 time	NA	Hubt Wblcr CRS# 08DR0711L
SB-94	actuator long	8/14/17 4379.9	inspected IAW SB	1 time	NA	Hubt Wblcr CRS# 08DR0711L
AD2017-0906	altimeter	8/14/17 4379.9	N/A per SN.	1 time	NA	Hubt Wblcr CRS# 08DR0711L
AD2016-2609	MR Blades	8/14/17 4379.9	completed per SB-89	1 time	NA	Hubt Wblcr CRS# 08DR0711L
AD2010-0810	TR Blades	06-24-2021 5087.1	MR 02 TLR and PIN	1 time	NA	Hubt Wblcr CRS# 08DR0711L
AD2010-1808	Engine intake system	02-09-2021 4945.7	inspected and intake hose	1 time	NA	Hubt Wblcr CRS# 08DR0711L

previously complied with

AIRWORTHINESS DIRECTIVE/FACTORY BULLETIN COMPLIANCE RECORD

AUTHORIZED SIGNATURE
CERTIFICATE NO.

A.D./BULL. NUMBER	ITEM AFFECTED	DATE & HRS. AT COMP.	METHOD OF COMPLIANCE	TYPE OF A.D. 1 TIME/RECUR.	NEXT COMP. DATE/HRS./CYCLE	AUTHORIZED SIGNATURE
SB-95	mech exhaust	02-04-2021 4997.7	SCR N/A let's 4 Rev D im	1 time	N/A	Previously complied with
SB-96	mech time	02-04-2021 4997.7	N/A let's 4 Rev D im	1 time	N/A	Previously complied with
SB-97	leakage leakage	02-04-2021 4997.7	installed new hose	1 time	N/A	Previously complied with
SB-98	Air/Oil separator	10-11-2021 5188.5	N/A no Air/Oil Sep installed	1 time	N/A	Previously complied with
SB-99	24V Battery leakage	02-04-2021 4997.7	installed KI-264-1	1 time	N/A	Previously complied with
SB-100	leakage leakage	02-04-2021 4997.7	installed new hose	1 time	N/A	Previously complied with
SB-101	HelisAs flight control computer	02-04-2021 4997.7	N/A no HelisAs installed	1 time	N/A	Previously complied with
SB-102	mech mech	02-04-2021 4997.7	MRD T-10 P-10	1 time	N/A	Previously complied with
SB-103	mech mech	02-04-2021 4997.7	MRD T-10 P-10	1 time	N/A	Previously complied with
SB-104	Air/Oil hose	02-04-2021 4997.7	N/A no Air/Oil Sep installed	1 time	N/A	Previously complied with
SB-105	Alternator filter	02-04-2021 4997.7	N/A no A/C installed	1 time	N/A	Previously complied with
SB-106	HelisAs hose	02-04-2021 4997.7	N/A no HelisAs installed	1 time	N/A	Previously complied with
SB-107	fire exting.			1 time	N/A	Previously complied with
SB-108	mech mech	10-11-2021 5188.5	N/A By A/C SIN	1 time	N/A	Previously complied with
SB-109	mech mech	10-11-2021 5188.5	N/A By A/C SIN	1 time	N/A	Previously complied with
AD2020-05-11	mech mech	10-11-2021 5188.5	N/A By A/C SIN	1 time	N/A	Previously complied with
AD2020-10-08	mech mech	10-11-2021 5188.5	N/A By A/C SIN	1 time	N/A	Previously complied with
AD2020-10-08	mech mech	10-11-2021 5188.5	N/A By A/C SIN	1 time	N/A	Previously complied with

F.A.R. 91.411

The tests required by FAR 91.413, & 91.217 have been performed in accordance with FAR 43 appendix F.

W.O. # 3292K Tested to 20K feet

#1 Transponder 6TX327 s/n 83720677

#2 Transponder NA s/n NA

#1 Altitude Reporter SSA120 s/n NC4354

#2 Altitude Reporter NA s/n NA

Signed [Signature] Date 2-11-15

Volusia Aviation, Inc. 386-290-1663 FAA CRS # JL5R476X

F.A.R. 91.411

FLIGHTS

Certificated Repair Station #BONR551C Page 1

for THE FLIGHTSTAR CORPORATION, CRS# BONR551C

[illegible]

CHECKED BY:
SIGNATURE — CERT. NO.

for THE FLIGHTSTAR CORPORATION, CRS# BONR551C

MAINTENANCE RECORD

F.A.R. 43.9

DATE OF COMPLETION	AIRCRAFT TIME IN SERVICE	DESCRIPTION OF WORK PERFORMED OR APPROVED DATA USED	AGENCY & CERTIFICATE NO. WORK PERFORMED/RETURNED TO SERVICE
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OLD CITY HELICOPTER SALES, LLC

4900 US 1 North, Suite 400

St. Augustine, FL 32095

DATE: 02-25-2015

REGISTRATION: N163RK MAKE: ROBINSON MODEL: R44 RAVEN II SERIAL #: 11120 HOBBS: 4305.7 TOTAL TIME: 4305.7

This aircraft was overhauled and inspected IAW current FAA regulations and RTR-460 Section 2.700. POH was updated to reflect current revision. AD's through Bi-weekly issue 2015-04 have been complied with. RHC SBs through SB-88 have been complied with. See previous logbook and page 9 of this log for details of AD and SB compliance. Life limited parts that have been replaced, and major components that have been overhauled, are listed on pages 5 & 6 of this logbook. All new or overhauled parts are listed on the parts list contained in WO # 140007; parts not specifically listed were inspected and continued in service. Forward & aft cross tubes and aft struts were stripped as required and NDI inspected IAW RTR-460 by Palm Beach Aircraft Propeller, Inc. (FAA CRS # LU4R349M; EASA CRS # EASA.145.5271) in Lantana, FL. D046-1 and D046-3 lower frames stripped and inspected by Palm Beach Aircraft Propeller, Inc. Landing gear was inspected, reassembled, and refinished IAW RTR-460. Aircraft was repainted IAW RTR-460. RHC SB-78B Bladder fuel tank retrofit was completed I.A.W. KI-196-2 kit instructions. Drained and flushed gearboxes IAW RTR-460 Sections 1.120 & 1.130. Weight and balance was performed and new documentation installed in POH. Pertinent documentation and FAA forms 8130-3 are contained in the records file for this aircraft. Various small parts, hardware, grommets, decals, clamps, etc. are not listed but were replaced w/new as necessary. This rotorcraft was flight checked and I certify that it has been inspected IAW with the requirements for a 100 Hour/Annual Inspection and has been determined to be in airworthy condition. Details of this overhaul and inspection are under WO# 140007.

Authorized Signature: _____




for:

OLD CITY HELICOPTER SALES, LLC

FAA CRS# O8DR071L

APR 9 2015 Hobbs 4312.6

- N163RK Robinson R44 Raven II S/N 11120 Hobbs 4312.6 TT 4312.6
- Removed and replaced Concord Engine Battery. Same type / size
- New battery p/n RG24-15 p/n 40710921
- Warranty sent to Concord (customer-service@concordbattery.com)
- Mike Phillips A/P 3324927  April 9, 2015

DATE OF COMPLETION

AIRCRAFT TIME IN SERVICE

DESCRIPTION OF WORK PERFORMED
OR APPROVED DATA USED

**AGENCY & CERTIFICATE NO.
WORK PERFORMED/RETURNED TO SERVICE**

Aug 10	41349.1
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2016

N163RK Robinson R-44 Raven II s/n 11120 Aircraft TT 4349.1 Hobbs 4349.1

Following performed for 100hr/ annual inspection

- Cleaned and tested spark plugs
- Replaced left side engine plenum p/n D380-7 due to cracked thru (replaced TT4091.5)
- Touch up paint on MFR tips and black leading edges
- ELT due Oct 2016
- Oil not changed this annual, 16.7 hrs on oil
- Transponder test due Feb 2017

I certify that this Airframe has been inspected in accordance with an Annual Inspection and was found to be in airworthy condition. Keith E. Phillips Aug 10, 2016

Aug 10, 2016

January 11, 2017

N163RK

ELT removed for maintenance this date. Panel placarded in accordance with FAR 91.207 Paragraph

$$(d)(2)(i) -$$

Paul A. Brevard

2126680351A

0660351A
REF ID: A660351A

MAINTENANCE RECORD

F.A.R. 43.9

DATE OF COMPLETION	AIRCRAFT TIME IN SERVICE	DESCRIPTION OF WORK PERFORMED OR APPROVED DATA USED	AGENCY & CERTIFICATE NO. WORK PERFORMED/RETURNED TO SERVICE
		<p>December 7, 2016 Hobbs: 4365.0 R44 II, S/N: 11120</p> <ol style="list-style-type: none"> 1. Oil change due. 2. CO detector light illuminates after several minutes of operation. Drained oil and replaced filter. Serviced with 8 qts Aeroshell 100 AD. Inspected old filter for contaminants, none noted. Ground run and leak checked satisfactory. 3. CO detector light illuminates after several minutes of operation. Cleaned sensor with compressed air. Light does not indicate sensor fault. Inspected exhaust system and found exhaust pipe clamps leaking at mating surfaces. Checked clamp torques and found discrepancies. Recommend a handheld CO detector be used to verify aircraft sensor detection and alert. 4. Right side landing light inop 5. Removed failed lamp and installed new GE 4591. 6. Fuel leak at aux tank sender unit. 7. De-fueled aircraft and removed sender. Cleaned all mating surfaces and found sender stud insulator and nut loose. Cleaned all parts and reassembled with JB-Weld at stud insulator. Reinstalled sender and leak checked. No defects noted. 8. All work accomplished in accordance with Robinson R44 maintenance manual. This helicopter is approved for return to service for the work accomplished. <p><i>Paul A. Brevard</i> Paul A. Brevard 2126680351A</p>	
		<p>December 19, 2016 Hobbs: _____ N162RK, R44II</p> <p>Remove CO detector and installed new, P/N C696-1. Self test mode checked and found satisfactory. Re-secured instrument panel and tested all warning light functions. No defects noted.</p> <p><i>Paul A. Brevard</i> Paul A. Brevard 2126680351A</p>	

MAINTENANCE SERVICE

MAINTENANCE RECORD F.A.R. 43.9

DATE OF
COMPLETION

AIRCRAFT TIME
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DESCRIPTION OF WORK PERFORMED
OR APPROVED DATA USED

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January 17, 2017 Hobbs: 4366.2

Replaced ELT battery with new and inspected ELT in
accordance with FAR 91.207(d). New battery
replacement date January 2019.

Paul A. Breward
2126680351A

MAGNETO SERVICE

N163RK ROBINSON HELICOPTER COMPANY R44 II

s/n 11120

Hobbs: 4368.8

WO# 50957

03/07/2017

The Altitude Reporting system test required by FAR 91.411 was performed and complies with FAR 43 Appendix E.
The ATC Transponder test required by FAR 91.413 was performed and complies with FAR 43 Appendix F.

Joseph McCormack

Joseph McCormack
FAACRS# G43R643N
Avionics Installations, Inc
212 Cessna Blvd, Hangar 5, Port Orange, FL 32128
Tel: 386-492-7760

MAINTENANCE RECORD

F.A.R. 43.9

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OLD CITY HELICOPTER SALES, LLC

4900 US 1 North, Suite 400

St. Augustine, FL 32095

DATE: 8/14/2017

REGISTRATION: N163RK MAKE: ROBINSON MODEL: R44 Raven II SERIAL #: 11120 HOBBS: 4380.5 TOTAL TIME: 4380.5

Performed annual inspection IAW Robinson R44 Maintenance Manual and Instructions for Continued Airworthiness RTR 460, Section 2.400 and Appendix D to Part 43. Removed and cleaned gascolator bowl and filter IAW RHC RTR 460 §§ 2.410(6) & 12.500. Rotated one-piece tail rotor pitch links inboard to outboard and checked axial and radial play IAW RHC RTR 460 §§ 8.570 & 2.122. Performed tail rotor run-out check IAW RHC RTR 460 § 7.340. Checks yielded: Bay 1) .005", Bay 2) .003", Bay 3) .003", Bay 4) .007", Bay 5) .003", Bay 6) .006". Performed clutch sheave alignment check IAW RHC RTR 460 § 7.230. Sheave alignment LH) .099", RH) .085". Cleaned MR & TR gearbox chip detectors IAW RHC RTR 460 § 1.115. ELT remote switch not functional. Manufacturer recommended returning unit for repair, customer declined. ELT disabled and switch labeled "INOPERATIVE". Performed aircraft battery capacity test, capacity found to be 99%. *Next check due 8/10/2018*. Lubricated C181-3 bearing per RHC R44 MM § 1.140. *Next Due at 4679.9 Hours or 8/11/2020*. Weighed fire extinguisher. Fire extinguisher weight: 502.6 grams - within limits of 500 grams minimum. Checked POH revision and updated from revision date 2/21/2014 to current revision date 10/21/2016 (per RHC website). AD 2016-26-04 complied with on 05/31/2015 at 4321.8 hours by performance of SB-89. Installed SB-90 decal P/N G654-6.

Installed ammeter circuit fuse protection IAW RHC SB-91. Applied B270-1 sealant to tail rotor drive shaft damper bearing IAW SB-92. Performed SB-93A by torquing and inspecting vertical stabilizer attach bolts. Performed SB-94. No evidence of fretting found. Completed AD 2017-04-06, and United Instruments SB-13. Altimeter not affected per altimeter S/N 448902. Cleaned gascolator drain valve to fix fuel leak. Flushed sediment in fuel system out through main tank, aux tank, and gascolator sump drains. Removed and replaced cracked condenser P/N D783-1, S/N 1475 with new condenser P/N D783-1, S/N 5519191 and upper condenser line assembly P/N D810-1. Replaced missing screw on front of aircraft with new screw, washer and nut. Tracked and balanced helicopter. Tail rotor tested at 0.07 IPS @ 5.59. Balanced cooling fan to .189 IPS @ 1.14. Balanced main rotor to .12 IPS @ 8:12. Track of MRBs within limits. Damaged panel light knob P/N MS91528-OC1B removed and replaced with new knob. Installed new A654-43 decal. Disabled directional gyro and marked "INOPERATIVE". Corrected erosion and damaged paint on main rotor tip caps, main rotor trailing edge, horizontal stabilizer bolts, screw on front of fuselage, and aft cowl joint of tail cone. Details of this inspection are under W/O# 170046. I certify that this aircraft has been inspected in accordance with a 100 Hour / Annual inspection was determined to be in airworthy condition with respect to the work performed.

Authorized Signature: _____

for:

OLD CITY HELICOPTER SALES, LLC

Robert J. Weber,

FAA CRS# O8DR0711

Mechanic

DATE OF COMPLETION	AIRCRAFT TIME IN SERVICE	DESCRIPTION OF WORK PERFORMED OR APPROVED DATA USED	AGENCY & CERTIFICATE NO. WORK PERFORMED/RETURNED TO SERVICE

N163RK

R44, S/N: 1112

Fuel leaking at electric boost pump and fuel strainer assembly.

Removed access panels and fuel system plumbing to allow removal and new replacement of fuel boost pump pressure switch, fuel strainer vacuum switch, and fuel strainer bowl seal, gasket, and drain valve. Secured all components and leak checked. Ground run engine and engaged rotor clutch. Found ~~right~~ and pressure response appropriate. No leaks noted. Reinstalled removed panels. This helicopter is approved for return to ~~service~~ for the work accomplished.

~~Service~~ for the work accomplished:

Paul A. Brevard

-2126680351A

**AGENCY & CERTIFICATE NO.
WORK PERFORMED/RETURNED TO SERVICE**

DATE OF COMPLETION	AIRCRAFT TIME IN SERVICE	DESCRIPTION OF WORK PERFORMED OR APPROVED DATA USED	AGENCY & CERTIFICATE NO. WORK PERFORMED/RETURNED TO SERVICE
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S/N: 1112

~~approved for return to service.~~

2126680351A

AGENCY & CERTIFICATE NO.
WORK PERFORMED/RETURNED TO SERVICE

MAINTENANCE RECORD F.A.R. 43.9

DATE OF
COMPLETION

AIRCRAFT TIME
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DESCRIPTION OF WORK PERFORMED
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AGENCY & CERTIFICATE NO.
WORK PERFORMED/RETURNED TO SERVICE

FIXED
to
Fits line.

Log Book Entry

Hobbs 4403.7

Date 7-Aug-18
Work Order Number 18-1719

Make of Aircraft	Aircraft N Number	Aircraft Serial Number	Aircraft Total Time	#1 Engine S/N	#1 Engine Total Time	#1 Engine TSMOH	#2 Engine S/N	#2 Engine Total Time	#2 Engine Cycles	Aircraft Total Landings
Robinson	N163RK	11120	4403.7	L-30914-48A	4403.7	N/A	N/A	N/A	N/A	N/A

Complied with the following Maintenance items.

- 1 Performed a 50, 100hr Annual airframe inspection in accordance with the Robinson R44II maintenance manual.
- 2 Performed a 50, 100hr Annual engine inspection in accordance with the Lycoming IO-540 operators manual.
- 3 Changed the engine oil and oil filter with a new filter p/n AA48108-2 and serviced with 9 qts of Aeroshell 100PLUS oil, performed a leak check (ok) in accordance with the Lycoming IO-540 operators manuals.
- 4 Complied with a engine compression check in accordance with the IO-540 operator's manual, measured #1-77 #2-76 #3-75 #4-76 #5-76 #6-76.
- 5 Checked the magneto timing in accordance with the Lycoming IO-540 operator's manual.
- 6 Cleaned, gapped, tested, and related the engine spark plugs in accordance with the Lycoming IO-540 maintenance manuals.
- 7 Performed a annual ELT inspection and ops check (ok) all work performed in accordance with the FAR 91.207, batteries are due Jan 2019.
- 8 Performed an aircraft and engine ground run and leak check in accordance with the Robinson R44II and Lycoming IO-540 maintenance manuals.

Complied with the following Technical Bulletins

- 1 Complied with SB 480E by changing the engine oil and filter, next due at 4453.7 or 12/2018.

Complied with the following AD's

- 1 Complied with AD 2015-19-07 dated 11/3/2015 by visual inspection of the engine fuel injection lines, with no defects noted. Next due at act 4403.7 or 8/2019.
- 2 Checked Ads through biweekly 2018-16.

THIS AIRCRAFT AND ENGINE WAS REPAIRED, AND INSPECTED IN ACCORDANCE WITH A 100hr ANNUAL INSPECTION AND THE CURRENT REGULATIONS OF THE FEDERAL AVIATION ADMINISTRATION AND IS APPROVED FOR RETURN TO SERVICE.

AUTHORIZED SIGNATURE

Scott W Yerk IA 3944890

MAINTENANCE RECORD

N163RK

Robinson R44 II

S/N: 111120



10/02/2018

Hobbs: 4417.9

Performed the following maintenance:

1. Removed the Garmin GNC420 (P/N: 011-0050506-10; S/N: 97203358) from the center radio stack. Installed a Garmin GTN635H (P/N: 011-022255-00; S/N: 1Z7010926) on a new Robinson GPS Support Weldment (P/N: D703-10) and Robinson Enclosure Shell Assy (P/N: G704-1) on the pilot side IAW the Garmin Part 27 STC Install Manual #190-01007-B3 Rev 2 and the Robinson Illustrated Parts Catalog #RTR460 Rev Apr 2016 and Robinson R44 Maint Manual RTR 460 Vol I Rev Jun 2014.
2. Removed the Comant Ind Antenna (P/N: CI2480-201; S/N: 106667) and installed a Comant COM WAAS Antenna (P/N: CI2480-200; S/N: 575337) in the same location.
3. Removed the GTX327 Transponder (P/N: 011-00490-00; S/N: 83720677) and installed a new GTX345 ADS-B Transponder (P/N: 011-03302-00; S/N: 3EG022707) in the same location IAW the Garmin Part 27 STC Install Manual #190-00734-20 Rev 4 under STC #SR02124SE. Connected to the existing circuit breaker, Mode "C" source and GTN635 WAAS position source.
4. Performed FAR 91.413 transponder tests, referencing Part 43, Appendix F. Performed FAR 91.411 with Mode "C" Correlation and a static system leak check, referencing Part 43, Appendix E, Paragraphs (a) & (c). ADS-B out performance requirements checked in accordance with FAR 91.227.
5. Filed a FAA Form 337 and provided an AFMS and ICA, updated weight and balance as required.
6. Removed the Pointer 3000-10 ELT (S/N: 345514) and installed a Kannad Integra 406 ELT (P/N: S1851501-02; S/N: LX1100769773) with Remote (P/N: S1820513-11; S/N: TM0000159382) and Antenna (P/N: 146150) in the same locations IAW the Kannad DOC09081E Rev Nov 2015 and the Robinson Maintenance Manual for R44, RTR460 Vol I Rev Jun 2014.

7. Installed an Appareo Stratus Power (P/N: 153510-000040; S/N: 60601) at the bottom of the radio stack IAW the Appareo Install Manual #600840-000041 Rev 1.0.

All work was performed with current regulations of the FAA and is approved for return to service. Details are on file at this Repair Station under WO #14203.

Daytona Aircraft Services, Inc.

561 Pearl Harbor Drive

Daytona Beach, Florida 32114

Authorized Signature:

John T. M. [Signature]
FAA CRS DYTIR262K

END

FIGATE NO.
URNED TO SERVICE

F.A.R. 43.9

AGENCY & CERTIFICATE NO.
WORK PERFORMED/RETURNED TO SERVICE

MAKE:ROBINSON MODEL: R44 II S/N: 13770 REG NO. 163RK DATE: 12/01/2018
A/C TT: 4451.2 WORK ORDER # 1774

At this time performed the following:

1. Install New Door Gas Springs C394-1 (2), D575-1 (2)

Date signed 12/01/2018:

David W Cox A&P 4114979

Maintenance Release This certifies that the work listed above was carried out in accordance with Federal Aviation Regulations and manufacturer specifications. In respect the work performed this aircraft is approved for return to service.

MAINTENANCE RECORD **F.A.R. 43.9**

DATE OF COMPLETION	AIRCRAFT TIME IN SERVICE	DESCRIPTION OF WORK PERFORMED OR APPROVED DATA USED	AGENCY & CERTIFICATE NO. WORK PERFORMED/RETURNED TO SERVICE
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MAKE: ROBINSON MODEL: R44 II S/N: 11120 REG NO. 163RK DATE: 4/26/2019
A/C TT: 4497.7 WORK ORDER # 1804

At this time performed the following:

- Performed 100 Hour/Annual Inspection in accordance with Robinson Helicopter Maintenance Manual.
1. Installed New Air Louver and air filters AA48108-2,
 2. Installed New Hydraulic Filter AN62351A
 3. Installed New Air filter C771-1
 4. Installed New Landing Light 4591
 5. Installed Right Navigation Light Bulb NLI 7512-24
 6. Installed New Low RPM Warning Horn - B320.3

Airworthiness Directives Checked thru 2019-09

Date signed 4/26/2019:



Dominique J. Youakim 3021289 A&P/IA

Maintenance Release This certifies that the aircraft listed above was inspected in accordance with an annual inspection and is approved for return to service.

MAINTENANCE RECORD **F.A.R. 43.9**

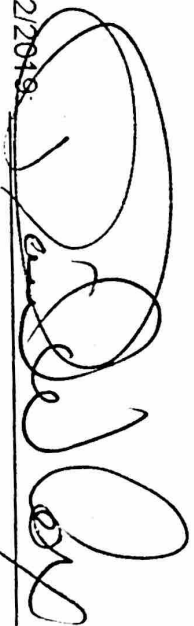
DATE OF COMPLETION	AIRCRAFT TIME IN SERVICE	DESCRIPTION OF WORK PERFORMED OR APPROVED DATA USED	AGENCY & CERTIFICATE NO. WORK PERFORMED/RETURNED TO SERVICE

MAKE:ROBINSON **MODEL:** R44 II **S/N:** 13770 **REG NO.** 168RK **DATE:** 05/22/2019
A/C TT: 4515.7 **WORK ORDER #** 1806

At this time performed the following:

1. Repair Broken Wire on Oil Pressure Sending Unit
- Run up and Operational Check Performed.

Date signed 05/22/2019



David W Cox A&P 4114979

Maintenance Release This certifies that the work listed above was carried out in accordance with Federal Aviation Regulations and manufacturer specifications. In respect the work performed this aircraft is approved for return to service.

MAINTENANCE RECORD **F.A.R. 43.9**

DATE OF
COMPLETION

AIRCRAFT TIME
IN SERVICE

DESCRIPTION OF WORK PERFORMED
OR APPROVED DATA USED

AGENCY & CERTIFICATE NO.
WORK PERFORMED/RETURNED TO SERVICE

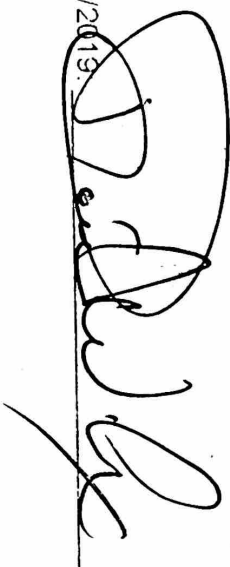
MAKE:ROBINSON MODEL: R44 II S/N: 11120 REG NO. 163RK DATE: 08/15/2019
A/C TT: 4590.1 WORK ORDER # 1826

At this time performed the following:

1. Install New Concorde RG24-15 Battery

Run Up and Operational Check Performed

Date signed 8/15/2019



David W Cox A&P 4114979

Maintenance Release This certifies that the work listed above was carried out in accordance with Federal Aviation Regulations and manufacturer specifications. In respect the work performed this aircraft is approved for return to service.

MAINTENANCE RECORD **F.A.R. 43.9**

DATE OF
COMPLETION

AIRCRAFT TIME
IN SERVICE

DESCRIPTION OF WORK PERFORMED
OR APPROVED DATA USED

AGENCY & CERTIFICATE NO.
WORK PERFORMED/RETURNED TO SERVICE

DATE

MAKE: ROBINSON MODEL: R44 II S/N: 11120 REG NO. 163RK DATE: 8/21/2019
AC TT: 1600.6 WORK ORDER # 1830

At this time performed the following:

1. Performed 100 Hour Inspection in accordance with Robinson Helicopter Maintenance Manual.
2. Installed new AN6235-1A hydraulic filter. Serviced system with additional fluid
3. Installed New C771-2 Filter
4. Inspected ELT IAW CFR part 91.207 ELT exp 02-2025

Airworthiness Directives Checked thru 2019-17

Date signed 8/23/2019:



David W Cox 4114979 A&P

Maintenance Release This certifies that the work listed above was carried out in accordance with Federal Aviation Regulations and manufacturer specifications. In respect the work performed this aircraft is approved for return to service.

INSPECTION RECORD F.A.R. 43.11-91.409

DATE

AIRCRAFT TIME
IN SERVICE

KIND OF INSPECTION-STATUS & DISCREPANCY LIST
SIGNATURE — CERT. NO. OF PERSON APPROVING OR DISAPPROVING AIRCRAFT FOR SERVICE

MAKE: ROBINSON MODEL: R44 II S/N: 11120 REG NO. 163RK DATE: 11/10/2019
AC/TT: 4698.7 WORK ORDER # 1850

At this time performed the following:

1. Performed 100 Hour Inspection in accordance with Robinson Helicopter Maintenance Manual
2. Installed new AN6235-1A hydraulic filter. Serviced system with additional fluid
3. Drain & Flush Main Rotor & Tail Rotor Gearbox
4. Install New C771-2 Filter
5. Install New Mast Fairing Assy - C261-1
6. Install Tanis Engine Heat System - TSP6CYL-2927-115
7. Inspected ELT IAW CFR part 91.207 ELT exp 02-2025

Airworthiness Directives Checked thru 2019-23

Date signed 11/10/2019

David W Cox 4114979 A&P

Maintenance Release This certifies that the work listed above was carried out in accordance with Federal Aviation Regulations and manufacturer specifications. In respect the work performed this aircraft is approved for return to service.

INSPECTION RECORD F.A.R. 43.11-91.409

DATE

AIRCRAFT TIME
IN SERVICE

KIND OF INSPECTION-STATUS & DISCREPANCY LIST
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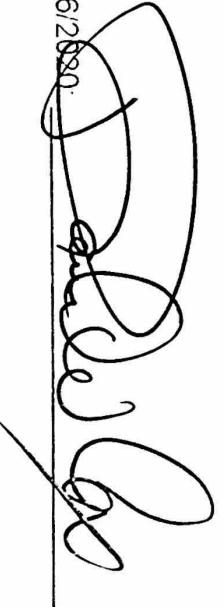
MAKE: ROBINSON MODEL: R44 II S/N: 11120 REG NO. 163RK DATE: 01/06/2020
A/C TT: 4736.7 WORK ORDER # 1860

At this time performed the following:

1. Remove Heat Control Covers. Remove Excessive Build-up from Heat Control Slide. Install Heat Control Covers.

Run Up and Operational Check Performed

Date signed 01/06/2020



David W Cox A&P 4114979

Maintenance Release This certifies that the work listed above was carried out in accordance with Federal Aviation Regulations and manufacturer specifications. In respect the work performed this aircraft is approved for return to service.

INSPECTION RECORD F.A.R. 43.11-91.409

DATE AIRCRAFT TIME
IN SERVICE

KIND OF INSPECTION-STATUS & DISCREPANCY LIST
SIGNATURE — CERT. NO. OF PERSON APPROVING OR DISAPPROVING AIRCRAFT FOR SERVICE

MAKE: ROBINSON MODEL: R44 II S/N: 11120 REG NO. 163RK DATE: 02/23/2020
A/C TT: 4751.4 WORK ORDER # 1865

At this time performed the following.

1. Remove Fan Cooling Ring Assy. Install New Fan Cooling Ring — D306-3

Date signed 02/23/2020:



David W Cox A&P 4114979

Maintenance Release This certifies that the work listed above was carried out in accordance with Federal Aviation Regulations and manufacturer specifications. In respect the work performed this aircraft is approved for return to service.

INSPECTION RECORD F.A.R. 43.11-91.409

DATE AIRCRAFT TIME
IN SERVICE

KIND OF INSPECTION-STATUS & DISCREPANCY LIST
SIGNATURE — CERT. NO. OF PERSON APPROVING OR DISAPPROVING AIRCRAFT FOR

MAKE: ROBINSON MODEL: R44 II S/N: 11120 REG NO. 163RK DATE: 4/28/2020
ACFT: 48018 WORK ORDER # 1872

At this time performed the following:

1. Performed 100 Hour Inspection in accordance with Robinson Helicopter Maintenance Manual.
2. Installed new AN6235-1A hydraulic filter. Serviced system with additional fluid
3. Install New C771-2 Filter
4. Install New Rods & Spacer On Aft Main Rotor Push Pull Tube D173-1, C115-1
5. Install New Teletemp on Tail Rotor Gearbox
6. Inspected ELT IAW 14 CFR 91.207 ELT exp 02-2025

Airworthiness Directives Checked thru 2020-09

Date signed 4/28/2020:  David W Cox 4114979 A&P

Maintenance Release This certifies that the work listed above was carried out in accordance with Federal Aviation Regulations and manufacturer specifications. In respect the work performed this aircraft is approved for return to service.

INSPECTION RECORD F.A.R. 43.11-91.409

DATE

AIRCRAFT TIME
IN SERVICE

KIND OF INSPECTION-STATUS & DISCREPANCY LIST

SIGNATURE — CERT. NO. OF PERSON APPROVING OR DISAPPROVING AIRCRAFT FOR SERVICE

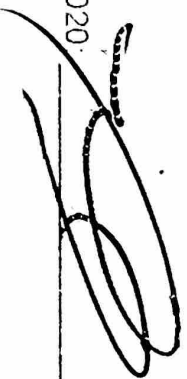
MAKE: ROBINSON MODEL: R44 II S/N: 11120 REG NO. 163RK DATE: 4/28/2020
AC TT: 4801.8 WORK ORDER # 1872

At this time performed the following:

1. Performed 100 Hour/Annual Inspection in accordance with Robinson Helicopter Maintenance Manual.

Airworthiness Directives Checked thru 2020-09

Date signed 4/28/2020:



Dominique J Youakim 3021289 1A

Maintenance Release I certify that this aircraft has been inspected in accordance with an Annual Inspection and determined to be in airworthy condition.

INSPECTION RECORD

F.A.R. 43.11-91.409

DATE

AIRCRAFT TIME
IN SERVICE

KIND OF INSPECTION-STATUS & DISCREPANCY LIST
SIGNATURE — CERT. NO. OF PERSON APPROVING OR DISAPPROVING AIRCRAFT FOR SERVICE

MAKE: ROBINSON MODEL: R44 II S/N: 11120 REG NO. 163RK DATE: 06/30/20
A/C TT: 4801.9 WORK ORDER # 1883

At this time performed the following:

1. Remove Defective Oil Pressure Switch and Install New Oil Pressure Switch B426-1

Run Up and Operational Check Performed

Date signed
06/30/2020



David W Cox A&P 4114979

Maintenance Release This certifies that the work listed above was carried out in accordance with Federal Aviation Regulations and manufacturer specifications. In respect the work performed this aircraft is approved for return to service.

INSPECTION RECORD F.A.R. 43.11-91.409

DATE	AIRCRAFT TIME IN SERVICE	KIND OF INSPECTION-STATUS & DISCREPANCY LIST SIGNATURE — CERT. NO. OF PERSON APPROVING OR DISAPPROVING AIRCRAFT FOR SERVICE

MAKE: ROBINSON MODEL: R44 II S/N: 11120 REG NO. 163RK DATE: 8/29/2020
A/C TT: 4898.1 WORK ORDER # 1902

At this time performed the following:

1. Performed 100 Hour Inspection in accordance with Robinson Helicopter Maintenance Manual.
2. Installed new AN6235-1A hydraulic filter. Serviced system with additional fluid
3. Install New C771-2 Filter
4. Install New Teletemp on Tail Rotor Gearbox
5. Inspected ELT IAW 14 CFR 91.207 ELT exp 02-2025

Airworthiness Directives Checked thru 2020-18

Date signed 8/29/2020:



David W Cox 4114979 A&P

Maintenance Release This certifies that the work listed above was carried out in accordance with Federal Aviation Regulations and manufacturer specifications. In respect the work performed this aircraft is approved for return to service.

INSPECTION RECORD F.A.R. 43.11-91.409

DATE

AIRCRAFT TIME
IN SERVICE

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SIGNATURE — CERT. NO. OF PERSON APPROVING OR DISAPPROVING AIRCRAFT FOR SERVICE

MAKE: ROBINSON MODEL: R44 II S/N: 11120 REG NO. 163RK DATE: 2/09/2021
Engine SMOH: 692 A/C TT: 4997.7 WORK ORDER # 1915

1052

At this time performed the following:

1. Performed 100 Hour Inspection in accordance with Robinson Helicopter Maintenance Manual.
- Lubricate C181-3 Clutch Actuator Lower Bearing IAW Robinson Helicopter Maintenance Manual 1 140
- Perform Clutch Assembly Lubricant Inspection & Serving IAW Robinson Helicopter Maintenance Manual 7.210
2. Installed new AN6235-1A hydraulic filter. Serviced system with additional fluid
3. install New C771-2 Filter
4. install New Halon Fire Extinguisher RTA-400
5. install New Engine Cooling Panels D380-3, D380-9
6. install New MRGB Pinion Seal and O-Rings — C966-3, A215-156, A215-029. Serviced Gearbox with Additional Fluid
7. Comply with AD 20-18-08, install New Air Induction Hose, A785-31 Lot# 3Q20
8. Remove Upper Vertical Stabilizer — Reinstall and Adjust for Sufficient Gap to Horizontal Stabilizer.

Maintenance Release This certifies that the work listed above was carried out in accordance with Federal Aviation Regulations and manufacturer specifications. In respect the work performed this aircraft is approved for return to service.

INSPECTION RECORD F.A.R. 43.11-91.409

AIRCRAFT TIME
IN SERVICE

KIND OF INSPECTION-STATUS & DISCREPANCY LIST
SIGNATURE — CERT. NO. OF PERSON APPROVING OR DISAPPROVING AIRCRAFT FOR SERVICE

DATE

MAKE: ROBINSON MODEL: R44 II S/N: 11120 REG NO. 163RK DATE: 2/09/2021
Engine SMOH: 692 A/C TT: 4997.7 WORK ORDER # 1915

2052

9. SB-96 D602-1 Time Delay Assembly – Not Applicable – Lot 54 Rev D Installed
10. SB-99 24-volt Battery Electrolyte Leakage – Install KI-264-1 Kit IAW RHC Service Bulletin
11. SB-101 HelisAS Flight Control Computer – Not Applicable – Equipment Not Installed
12. SB-103 Main Rotor Tip Plate Permanent Removal & Sealant Application – Not Applicable – C016-7 Rev "AE" Installed on Aircraft
13. SB-104 Air/Oil Separator Hose – Not Applicable by Serial Number
14. SB-105 Alternator Filter Installation – Not Applicable Equipment Not Installed
15. SB-106 HelisAS Autopilot Interface with Garmin PFD – Not Applicable Equipment Not Installed
16. Inspected ELT IAW 14 CFR 91.207 ELT exp 02-2025

Airworthiness Directives Checked thru 2021-03

Date signed 2/09/2021

David W Cox 411 4979 A&P

Maintenance Release This certifies that the work listed above was carried out in accordance with Federal Aviation Regulations and manufacturer specifications. In respect the work performed this aircraft is approved for return to service.

INSPECTION RECORD F.A.R. 43.11-91.409

DATE

AIRCRAFT TIME
IN SERVICE

KIND OF INSPECTION-STATUS & DISCREPANCY LIST
SIGNATURE — CERT. NO. OF PERSON APPROVING OR DISAPPROVING AIRCRAFT FOR SERVICE

MAKE: ROBINSON MODEL: R44 II S/N: 11120 REG NO. 163RK DATE: 2/09/2021
ENGINE SMOH: 692 A/C TT: 4997.7 WORK ORDER # 1915

At this time performed the following:

1. Performed 100 Hour/Annual Inspection in accordance with Robinson Helicopter Maintenance Manual.

Airworthiness Directives Checked thru 2021-03

Date signed 2/09/2021:



Dominique J. Youakim 3021289 IA

Maintenance Release I certify that this aircraft has been inspected in accordance with an Annual Inspection and determined to be in airworthy condition.

INSPECTION RECORD F.A.R. 43.11-91.409

DATE AIRCRAFT TIME
IN SERVICE

KIND OF INSPECTION-STATUS & DISCREPANCY LIST
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SVT AVIATION
MAINTENANCE, LLC.

June 28, 2021 Registration: N163RK Make: Robinson Model: R-44 Raven II S/N: 11120
Aircraft Total Time: 5087.1 ACTSOH: 781.7 Collective Hobbs: 5087.1

I certify that at this time I have performed a 100-hour inspection per RHC R-44 M/M, section 2.400.

1. Sheave alignment: RH: .095", LH: .115", within limits per section 7.230.
2. T/R driveshaft runout fwd. to aft: .003", .004", .003" and .003", .005" within limits per section 7.340.
3. Inspected and tested TRGB and MRGB chip detectors per section 1.115. No defects noted. Serviced tail rotor gearbox with oil.
4. Inspected/TESTED ELT with no defects noted. Battery expires 02/2025.
5. Removed and replaced fire and oil warning light lens with new part.
6. Replaced fire extinguisher with new unit.
7. AD 2020-08-10 Amendment 39-19902 Inspect C029-1 or -2 tail rotor blades due. N/A by installed tail rotor blade part number. No further actions necessary.
8. All applicable SB's and AD's have been reviewed and/or complied with at this time.
9. All RHC interval maintenance has been complied with at this time per Table 1 of section 1.101.
10. Performed operational and flight checks on all systems with no defects noted.

I certify that this aircraft has been inspected per a RHC 100-hour inspection, is in airworthy condition, and is approved for return to service.

Michael Underwood *Michael Underwood* A&P 3100587 IA

SVT AVIATION
MAINTENANCE, LLC.

June 28, 2021 Registration: N163RK Make: Robinson Model: R-44 Raven II S/N: 11120
Aircraft Total Time: 5087.1 ACTSOH: 781.7 Aircraft Total Time: 5087.1 Collective Hobbs: 5087.1

1. I certify that at this time I have performed an ANNUAL inspection on this aircraft per the R44 M/M and 14 CFR Part 43.15 and Part 43 Appendix D.
2. Performed operational and leak checks on all systems with no defects noted.

I certify that this aircraft has been inspected per an ANNUAL inspection, is in airworthy condition, and is approved for return to service.

Michael Underwood *Michael Underwood* A&P 3100587 IA

SVT AVIATION

MAINTENANCE, LLC.

October 11, 2021 Registration: N163RK Make: Robinson Model: R-44 Raven II S/N: 11120
Aircraft Total Time: 5188.5 ACTSOH: 882.8 Collective Hobbs: 5188.5

I certify that at this time I have performed a 100-hour inspection per RHC R-44 M/M, section 2.400.

1. Sheave alignment: RH: .050", LH: .075", within limits per section 7.230.
2. T/R driveshaft runout fwd. to aft: .004", .003", .005" and .004", within limits per section 7.340.
3. Inspected and tested TRGB and MRGB chip detectors per section 1.115. No defects noted. Serviced tail rotor gearbox with oil.
4. Sanded paint, cleaned/removed corrosion. Primed and painted tail rotor blade leading edges IAW RHC R44 MM Section 9.400.
5. Lubricated C181-3 lower bearing IAW 1.110.
6. Complied with annual ELT inspection. No defects noted.
7. Removed and replaced POH. Transferred weight and balance.
8. Drained, serviced with mineral oil, flushed and replenished main rotor and tail rotor gearboxes IAW RHC R44 MM Section 1.120.
9. Removed and replaced all 5 headliners IAW RHC R44 MM 15.400.
10. Removed and replaced AFT and forward R/H engine isolator mounts with new parts.
11. Removed and reinstalled fan-wheel, fan-shaft, lower bearing, ring gear support and lower sheave to FOM IAW RHC R44 MM Section 6.200.
12. Balanced fan-wheel to .11 IPS @ 5:40 IAW RHC R44 MM Section 6.240.
13. Removed and replaced worn engine L/H isolator mount bushing IAW RHC R44 MM Section 6.120.
14. Fuel mixture actuation was very rough. It was determined the fuel servo was damaged internally. Removed fuel servo and shipped to G&N Aircraft. Installed and rigged repaired fuel servo IAW RHC R44 MM Section 10.150 and 6.495. Operated helicopter with no defects noted.
15. Lower bearing brackets fretting. Removed, cleaned and repaired lower bearing brackets with 2216 epoxy and new rivets. Applied torque stripe IAW R44 SB-94.
16. Balanced fan-wheel to .04 IPS @ 4:30 IAW RHC MM Section 6.240.
17. Balanced tail rotor IAW R44 M/M section 6.240. Final balance .10 IPS @ 12.30.
18. Tracked and balanced main rotor IAW RHC R44 MM Section 10.230. Initial balance was .86 IPS @ 4:30. Hover track checked satisfactory. Shifted main rotor hub towards chord arm .020". Added (2) A255-2 weights to chord arm for proper hover balance. Bent climbing vertical blade trim tab down .015" for proper in-flight track. Final balance was .05 IPS @ 3:15. Autorotational rpm checked satisfactory.
19. Removed and replaced both main rotor blade tip caps with new parts.
20. Removed, cleaned and repaired lower bearing brackets with 2216 epoxy and new rivets and re installed. Applied torque stripe IAW R44 SB-94.
21. Installed oil pressure activated Hobbs meter.
22. Removed and replaced (2) AGC-3 fuses on vertical firewall.
23. All applicable SB's and AD's have been reviewed and/or complied with at this time.
24. All RHC interval maintenance has been complied with at this time per Table 1 of section 1.101.
25. Performed operational and flight checks on all systems with no defects noted.

I certify that this aircraft has been inspected per a RHC 100-hour inspection, is in airworthy condition, and is approved for return to service.

Michael Underwood



A&P 3100587 IA

INSPECTION RECORD

F.A.R. 43.11-91.409

DATE	AIRCRAFT TIME IN SERVICE	SIGNATURE — CERT. NO. OF PERSON APPROVING OR DISAPPROVING AIRCRAFT FOR SERVICE	KIND OF INSPECTION-STATUS & DISCREPANCY LIST
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SVT AVIATION
MAINTENANCE, LLC.

October 11, 2021 Registration: N163RK Make: Robinson Model: R-44 Raven II S/N: 11120
Aircraft Total Time: 5188.5 ACTSOH: 882.8 Aircraft Total Time: 5188.5 Collective Hobbs: 5188.5

1. I certify that at this time I have performed an **ANNUAL** inspection on this aircraft per the R44 M/M and 14 CFR Part 43.15 and Part 43 Appendix D.
2. Performed operational and leak checks on all systems with no defects noted.

I certify that this aircraft has been inspected per an **ANNUAL** inspection, is in airworthy condition, and is approved for return to service.

Michael Underwood *Michael Underwood* A&P 3100587 IA

SVT AVIATION
MAINTENANCE, LLC.

April 1, 2022 Registration: N163RK Make: Robinson Model: R-44 Raven II S/N: 11120
Aircraft Total Time: 5287.2 ACTSOH: 981.5 Collective Hobbs: 5287.2

1. I certify that at this time I have performed an **ANNUAL** inspection on this aircraft per the R44 M/M and 14 CFR Part 43.15 and Part 43 Appendix D.
2. Performed functional check and inspection of ELT IAW FAR 91.207D. No defects noted at this time. Battery expires 02/2025. Next inspection due 04/2023.
3. Performed operational and leak checks on all systems with no defects noted.

I certify that this aircraft has been inspected per an **ANNUAL** inspection, is in airworthy condition, and is approved for return to service.

Michael Underwood *Michael Underwood* A&P 3100587 IA

INSPECTION RECORD F.A.R. 43.11-91.409

AIRCRAFT TIME

KIND OF INSPECTION-STATUS & DISCREPANCY LIST



April 1, 2022 Registration: N163RK Make: Robinson Model: R-44 Raven II S/N: 11120
Aircraft Total Time: 5287.2 ACFTSOH: 981.5 Collective Hobbs: 5287.2

I certify that at this time I have performed a 100-hour inspection per RHC R-44 M/M, section 2.400.

1. Sheave alignment: RH: .115", LH: .102", within limits per section 7.230.
2. T/R driveshaft runout fwd. to aft: .002", .004", .003", .002", .004" and .002", within limits per section 7.340.
3. Inspected, cleaned and tested TRGB and MRGB chip detectors per section 1.115. No defects noted. Serviced tail rotor gearbox with oil.
4. Serviced main rotor gearbox to proper level.
5. Tightened air-conditioning compressor belt.
6. Complied with annual ELT inspection. No defects noted.
7. All applicable SB's and AD's have been reviewed and/or complied with at this time.
8. All RHC interval maintenance has been complied with at this time per Table 1 of section 1.101.
9. Performed operational and flight checks on all systems with no defects noted.

I certify that this aircraft has been inspected per a RHC 100-hour inspection, is in airworthy condition, and is approved for return to service.

Michael Underwood

Michael Underwood
A&P 3100587 IA



August 10, 2022 Registration: N163RK Make: Robinson Model: R-44 Raven II S/N: 11120
Aircraft Total Time: 5389.8 ACTSOH: 1084.1 Collective Hobbs: 5389.8

1. I certify that at this time I have performed an ANNUAL inspection on this aircraft per the R44 M/M and 14 CFR Part 43.15 and Part 43 Appendix D.
2. Performed functional check and inspection of ELT IAW FAR 91.207D. No defects noted at this time. Battery expires 02/2025. Next inspection due 10/2023.
3. Performed operational and leak checks on all systems with no defects noted.

I certify that this aircraft has been inspected per an ANNUAL inspection, is in airworthy condition, and is approved for return to service.

Michael Underwood

Michael Underwood
A&P 3100587 IA

INSPECTION RECORD F.A.R. 43.11-91.409

DATE AIRCRAFT TIME
IN SERVICE

KIND OF INSPECTION-STATUS & DISCREPANCY LIST
SIGNATURE — CERT. NO. OF PERSON APPROVING OR DISAPPROVING AIRCRAFT FOR SERVICE



August 10, 2022 Registration: N163RK Make: Robinson Model: R-44 Raven II S/N: 111120
Aircraft Total Time: 5389.8 ACFTSOH: 1084.1 Collective Hobbs: 5389.8

I certify that at this time I have performed a 100-hour inspection per RHC R-44 M/M, section 2.400.

1. Sheave alignment: RH: .085", LH: .105", within limits per section 7.230.
2. T/R driveshaft runout fwd. to aft: .605", .004", .004", .003", .004" and .005", within limits per section 7.340.
3. Inspected, cleaned and tested TRGB and MRCB chip detectors per section 1.115. No defects noted. Serviced tail rotor gearbox with oil.
4. Battery passed capacity check @ 99%. Charged and reinstalled battery.
5. Removed and replaced hydraulic filter with new part.
6. Repaired loose rivets IAW standard aviation maintenance practices.
7. Removed bent tail rotor guard (D079-1, S/N: 9006) and replaced with **NEW** tail rotor guard (D079-1, S/N: 13197) IAW RHC R44 MM 4.430.
8. Sanded paint cleaned/removed corrosion, prime and painted exposed surface on main rotor blade leading edges and ensured all bond lines are covered IAW RHC R44 MM Section 28-52.
9. Sanded paint, cleaned/removed corrosion. Primed and painted tail rotor blade leading edges IAW RHC R44 MM 9.400.
10. C/W R44 SE 99 by installing KI-264-1.
11. Removed and replaced both main rotor pitch links with new parts.
12. Tracked and balanced main rotor. No adjustments made. Final balance .09 IPS @ 4:30.
13. Complied with annual ELT inspection. Battery expires 04/2025. No defects noted.
14. All applicable SD's and AD's have been reviewed and/or complied with at this time.
15. All RHC interval maintenance has been complied with at this time per Table 1 of section 1.101.
16. Performed operational and flight checks on all systems with no defects noted.

I certify that this aircraft has been inspected per a RHC 100-hour inspection, is in airworthy condition, and is approved for return to service.

Michael Underwood

A&P 3100587 IA

DATE	AIRCRAFT TIME IN SERVICE
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KIND OF INSPECTION-STATUS & DISCREPANCY LIST

SIGNATURE — CERT. NO. OF PERSON APPROVING OR DISAPPROVING AIRCRAFT FOR SERVICE

WO: WO_20

Airframe ; page 1 of 1



Viking Aviation Maintenance • 1642 Entrance Dr • New Braunfels, TX 78130 • 9105467328

N163RK
ACTT: 5466.4

Robinson, R44 Raven II, S/N: 11120
Coll_ Hobbs: 5466.4 **Engine TT: 0.0**

April 20, 2023

Removed engine PN:IO-540-AE1A5 SN:L-30194-48A and installed engine PN:IO-540-AE1A5 SN:L31601-48A. Performed break-in procedure IAW Lycoming MM. Performed operational flight with no discrepancies.

I certify that this airframe has been inspected per approved maintenance publications, it is in airworthy condition, and is approved for return to service IAW CFR Far part 43. Details of work performed are on file with Viking Aviation Maintenance under work order: WO_20.

Michael Chaloupka AP/IA 3607269

30

INSPECTION RECORD

F.A.R. 43.11-91.409

AIRCRAFT TIME
IN SERVICE

wo: WO_42

Airframe · page 1 of 1

KIND OF INSPECTION-STATUS & DISCREPANCY LIST
SIGNATURE — CERT. NO. OF PERSON APPROVING OR DISAPPROVING AIRCRAFT FOR SERVICE



Viking Aviation Maintenance · 1740 Entrance Dr · New Braunfels, TX 78130 · 9105467328

N163RK
Collective Hobbs: 5488.2

Robinson, R44 Raven II, S/N: 11120

May 23, 2023

1. Complied with airframe 100 hour inspection IAW RHC MM.
2. TRDS Runout measured. #1-.003, #2-.006, #3-.010, #4-.007.
3. Sheave alignment measured LH-.069 RH-.048. Measurement is within limits IAW RHC MM.
4. Fire extinguisher weight is within limits.
5. Performed AD/SB audit.

I certify that this airframe has been inspected per approved maintenance publications, it is in airworthy condition, and is approved for return to service IAW CFR Far part 43. Details of work performed are on file with Viking Aviation Maintenance under work order: WO_42.

Michael Chaloupka AP/IA 3607269

INSPECTION RECORD F.A.R. 43.11-91.409

DATE	AIRCRAFT TIME IN SERVICE	KIND OF INSPECTION-STATUS & DISCREPANCY LIST SIGNATURE — CERT. NO. OF PERSON APPROVING OR DISAPPROVING AIRCRAFT FOR SERVICE
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VIKING AVIATION MAINTENANCE LLC.



14Jun23 Registration N163RK Make: Robinson Model: R44 RII SN: 11120
Coll. Hobbs:5590.1

Performed 100 Hour Airframe Inspection IAW RHC R44 M/M, section 2.400.

1. Sheave alignment: RH .075", LH .0110 AV .092 within IAW ~~R22~~ ^{R44} RHC M/M section 7.230
3. Clutch shaft angle 4.2 degrees, within limits per section 7.230
4. T/R driveshaft runout fwd to aft: .004", .009", .005", .002, .009, .006" within limits per section 7.340
5. Tail rotor pitch links rotated.
6. All RHC interval maintenance has been complied with at this time per R44 M/M 2.30.
7. All applicable AD's have been reviewed and/or complied with at this time.
8. Performed operational and leak checks on all systems with no defects noted.

I certify that this Aircraft has been inspected per RHC 100 Hour inspection, is in airworthy condition and is approved for return to service.

Michael Chaloupka  3607269AP1A



14Jun23 Registration N163RK Make: Robinson Model: R44 RII SN: 11120
Coll. Hobbs:5590.1

Performed Annual Inspection IAW RHC R44 M/M and 14 CFR Part 43.15 Appendix D

Michael Chaloupka  3607269AP1A

INSPECTION RECORD F.A.R. 43.11-91.409

AIRCRAFT TIME
IN SERVICE

KIND OF INSPECTION-STATUS & DISCREPANCY LIST
SIGNATURE — CERT. NO. OF PERSON APPROVING OR DISAPPROVING AIRCRAFT FOR SERVICE

VIKING AVIATION MAINTENANCE LLC.



14Jun23 Registration N163RK Make: Robinson Model: R44 RII SN: 11120
Coll. Hobbs: 5590.1

Performed Maintenance Flight IAW R44 RHC M/M section 2.400, and 14 CFR Part 91.407.

1. Flight check required for operational release. Completed flight per R44 M/M section 2.200. All operational checks satisfactory. No defects noted. certify that this Aircraft has been inspected per RHC Ground/Run-Up/Flight check inspection, is in airworthy condition and is approved for turn to service.

Michael Chaloupka  3607269APIA

New Log book started
6 March 2024
SG12.6 ACTT


AP 309 2022