



ROBINSON.

HELICOPTER COMPANY

2901 Airport Drive, Torrance, California 90505, USA

Phone (310) 539-0508 Fax (310) 539-5198

AIRFRAME MAINTENANCE RECORD

SECTION 8

SCHEDULED INSPECTIONS

Helicopter Serial Number 2559	Registration Number N805NV	Model R44	Date of Manufacture 24/SEP/2018
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Date of Completion	Helicopter Time in Service	RECORD OF INSPECTION TYPE & SCOPE, DISCREPANCIES FOUND, & AIRWORTHINESS STATUS (CFR 43.11 & 91.409)	Signature and Certificate Number
8-31-18	4.01	FAA Production Flight Test Satisfactory	 SIGN RHC PC #424WE CERT
9/24/2018	4.01	I find that this rotorcraft meets the requirements for the certification requested and have issued a Standard Airworthiness Certificate dated <u>24 SEP 2018</u>  ODA606172NM MARTIN P. SCHNEIDER Authorized Signature & Number	
10/17/2018 N805NV S/N: 2559 Hobbs: 95.0 AFTT: 95.0 ENGTT: 95.0 Engine Serial Number: L-27791-40E Model Number: O-540-F1B5 Performed 50/100/300 Hour Inspection as per Table 1 of the Robinson Helicopter Company Maintenance Manual and FAR Part 43.15(A1, B, C1-2), Part 43 Appendix D as applicable. This entry has been made in accordance with FAR 43.11 (A1-4). I certify this Airframe has been inspected in accordance with the requirements of a 50/100/300/500 Hour Inspection and has been found to be in an AIRWORTHY CONDITION. Aircraft returned to service. Andrew D. MacQueen A&P 			

RF 292 Revision B

Section 1: Airframe

DATE / /	AIR TIME				LANDINGS / CYCLES	
	DAILY TOTAL		TOTAL		DAILY TOTAL	TOTAL
	HRS	MIN	HOURS	MIN		
CARRIED FORWARD						

DETAILS OF TASK (INSPECTION, REPAIRS & REPLACEMENT)

**RAINBOW
HELICOPTERS**

N740RH Airframe Logbook Entry

57 - 1/1

Version: 1

Airframe Make & Model (Serial)
ROBINSON R44(2559)

Operator
Rainbow Helicopters

Date
28-Aug-2023

Airframe Hours
4189.00

Airframe Landings
1293

Performed the Following Scheduled Items
01. 71 - 25/75 HOUR OIL CHANGE.

Performed the Following Non-Routine Maintenance

02. DCS - PIREP OF TEMPORARY LOW OIL PRESSURE INDICATION (STILL GREEN, NO LIGHT). - DRAINED OIL, INSPECTED FILTER, INSTALLED NEW FILTER, SERVICED WITH MINERAL OIL. REMOVED AND REPLACED OIL PRESSURE TRANSDUCER. VERIFIED OIL PRESSURE WITH EXTERNAL PRESSURE GAUGE, NOT ABLE TO RECREATE LOW OIL PRESSURE INDICATION.

WORK PERFORMED AND ITEM RETURNED TO SERVICE IAW OEM INSPECTION PROGRAM SELECTED UNDER 14 CFR 91.409 (F3) OR ICA INSTRUCTIONS / 43.9 IN REGARDS TO THE WORK PERFORMED AS APPLICABLE.

Technician
Clinton Hill

License / Cert #

Signature

Clinton Hill

Date

28-Aug-2023

**RAINBOW
HELICOPTERS**

N740RH Airframe Logbook Entry

58 - 1/1

Version: 1

Airframe Make & Model (Serial)
ROBINSON R44(2559)

Operator
Rainbow Helicopters

Date
27-Sep-2023

Airframe Hours
4228.50

Airframe Landings
1359

Performed the Following Scheduled Items

01. 5 - ANNUAL INSPECTION 14 CFR PART 43 APPENDIX D - Work Description: PERFORMED USING RHC R44 MM CHECKLIST. Notes: INSPECTION TO BE PERFORMED BY IA, NO DELEGATION OF INSPECTION TASKS POSSIBLE.
02. 5 1000 - 100 HOUR INSPECTION PER RHC 1.170 - Part 91/135
03. 20 - INSPECT TAIL STINGER FOR SCRATCHES / GROUND CONTACT. TREAT / PAINT AS NECESSARY.
04. 25 - FIRE EXTINGUISHER INSPECTION
05. 29 0001 - REPLACE HYDRAULIC FILTER PER 1.170
06. 62 1024 - PERFORM MAIN ROTOR BLADE TIP MAINTENANCE PER 28-60

Performed the Following Service Bulletins

07. R44 SB-112 - SB112 TAIL ROTOR BLADE INSPECTION. SEE FLIGHT LOG FOR DAILY INSPECTION RECORD. PAINT BOND LINE AT 25 HOUR INSPECTION.

Notes
2028.5

I certify that this airframe has been inspected in accordance with the requirements for an Annual Inspection and was found in airworthy condition.

Technician
Mike G. Iven

License / Cert #
CFI

Signature

Mike G. Iven

Date

27-Sep-2023

See mx section for entry # 59

**RAINBOW
HELICOPTERS**

N740RH Airframe Logbook Entry

60 - 1/1

Version: 1

Airframe Make & Model (Serial)
ROBINSON R44(2559)

Operator
Rainbow Helicopters

Date
27-Dec-2023

Airframe Hours
4327.50

Airframe Landings
1498

Performed the Following Scheduled Items

01. 5 1000 - 100 HOUR INSPECTION PER RHC 1.170 - Part 91/135
02. 20 - INSPECT TAIL STINGER FOR SCRATCHES / GROUND CONTACT. TREAT / PAINT AS NECESSARY.
03. 25 - FIRE EXTINGUISHER INSPECTION
04. 62 1024 - PERFORM MAIN ROTOR BLADE TIP MAINTENANCE PER 28-60
05. 63 - LUBRICATE C181-3 LOWER FAN SHAFT BEARING PER MM SECTION 1.140

Performed the Following Service Bulletins

06. R44 SB-112 - SB112 TAIL ROTOR BLADE INSPECTION. SEE FLIGHT LOG FOR DAILY INSPECTION RECORD. PAINT BOND LINE AT 25 HOUR INSPECTION.

I CERTIFY THAT THIS AIRFRAME HAS BEEN INSPECTED IN ACCORDANCE WITH THE REQUIREMENTS FOR A 100 HOUR INSPECTION AND WAS FOUND TO BE IN AIRWORTHY CONDITION.

Technician

Mike G. Iven

License / Cert #
CFI

Signature

Mike G. Iven

Date

27-Dec-2023

PAGE
TOTALS

CARRY FORWARD to Top of Next Page

N740RH 4/26/2024 S/N 2559 Hobbs: 2198.100 Total Time: 4398.100
 Performed 2200 hr overhaul per R44 MM Section 2.6. Replaced all life limited components and revised life limited component sheets. Replaced both skids and lower engine frames with new. Installed new fuel, oil, and air intake hoses. Installed all new rain caps on skid tubes. Replaced governor actuator with overhauled unit. Replaced aircraft interior with new. Replaced rotor brake cable with new. Removed corrosion from aft engine cowling, treated and painted. Performed fiberglass repair on lower pilot door under hinge. Weighed aircraft, Revised weight and balance. Rigged main rotor and tail rotor system. Balanced tail rotor and main rotor blades. Performed autorotation check. All operational and flight checks good. -END

 Ryan Williams, AP

N740RH 4/26/2024 S/N 2559 Hobbs: 2198.100 Total Time: 4398.100
 Performed annual inspection in accordance with FAR 43 App D. Performed bi-weekly AD search and revised AD listing. I certify that this AIRCRAFT has been inspected in accordance with an ANNUAL inspection and was determined to be in an airworthy condition.

 Ryan Williams, A

RAINBOW
HELICOPTERS

N740RH Airframe Logbook Entry

66 - 1/1

Version: 1

Airframe Make & Model (Serial)
ROBINSON R44(2559)

Operator
Rainbow Helicopters

Date
08-May-2024

Airframe Hours
4401.70

Airframe Landings
1616

Performed the Following Scheduled Items

01. 63 0004 - DRAIN AND FLUSH GEARBOXES PER 1.120 & 1.130

Technician

License / Cert #

Signature

ton Hill

Date

08-May-2024

Clinton Hill

RAINBOW
HELICOPTERS

N740RH Airframe Logbook Entry

67 - 1/1

Version: 1

Airframe Make & Model (Serial)
ROBINSON R44(2559)

Operator
Rainbow Helicopters

Date
09-May-2024

Airframe Hours
4402.10

Airframe Landings
1618

Performed the Following Non-Routine Maintenance

01. DCS - AFT headset hangar worn - R/R aft headset hangar w/newP/N: A712-3

Notes

hobbs: 2202.96

Aircraft returned to service in regards to the work performed (43.9) only.

Technician

License / Cert #

Signature

Keith Lovin

Date

09-May-2024

Keith Lovin

RAINBOW
HELICOPTERS

N740RH Airframe Logbook Entry

68 - 1/1

Version: 1

Airframe Make & Model (Serial) ROBINSON R44(2559)	Operator Rainbow Helicopters	Date 13-May-2024	Airframe Hours 4419.70	Airframe Landings 1642
Performed the Following Non-Routine Maintenance 01. DCS - carb heat cable binding, rotor clutch engagement 10 seconds. - adjusted carb heat cable mount to sliding airbox door in reference to maintenance manual. ops check good. adjusted clutch down limit switch in reference to maintenance manual. ops check good.				
Technician Anthony Fritsche	License / Cert # AA	Signature 	Date 13-May-2024	

RAINBOW
HELICOPTERS

N740RH Airframe Logbook Entry

70 - 1/1

Version: 1

Airframe Make & Model (Serial) ROBINSON R44(2559)	Operator Rainbow Helicopters	Date 13-May-2024	Airframe Hours 4420.30	Airframe Landings 1643
Performed the Following Non-Routine Maintenance 01. DCS - carb heat friction too high and carb heat sticking in open position. - carb heat friction adjusted and carb heat airbox sliding door adjusted in reference to Robinson maintenance manual 6.610 and 6.400				
Technician Anthony Fritsche	License / Cert #	Signature 	Date 13-May-2024	

RAINBOW
HELICOPTERS

N740RH Airframe Logbook Entry

80 - 1/1

Version: 1

Airframe Make & Model (Serial) ROBINSON R44(2559)	Operator Rainbow Helicopters	Date 05-Jul-2024	Airframe Hours 4568.90	Airframe Landings 1855
Performed the Following Scheduled Items 01. 5 1000 - 100 HOUR INSPECTION PER RHC 1.170 - Part 91/135 02. 20 - INSPECT TAIL STINGER FOR SCRATCHES / GROUND CONTACT. TREAT / PAINT AS NECESSARY. 03. 25 - FIRE EXTINGUISHER INSPECTION 04. 62 1024 - PERFORM MAIN ROTOR BLADE TIP MAINTENANCE PER 28-60				
Performed the Following Non-Routine Maintenance 05. DCS - Low fuel level switch test will not activate low fuel level light. - Replaced time delay relay P/N: 655-1 per RHC MM, function check ok. Technician: Brian Babcock, AP4544348 06. DCS - Full throttle switch rigging out of limits - Readjusted V-1 micro switch to open at .064 gap at carburetor throttle stop per R44 AMM Chpt 37-70 ops check good. Tech: Dylan Judd AP4334605 07. DCS - L/H Engine Cowling Cracked Near Hinge - Stop drilled crack, fabricated doubler of same thickness as parent metal and installed. Found cracked hinge and stiffener. Installed new hinge part number C380-6 and new stiffener part number C380-4 in accordance with AC43131B and R44 maintenance manual. Tech: Dylan Judd AP4334605 08. DCS - Engine Baffling Retainer Installed Incorrectly - Removed retainer and Installed New Retainer P/N C487-2				
I CERTIFY THAT THIS AIRFRAME HAS BEEN INSPECTED IN ACCORDANCE WITH THE REQUIREMENTS FOR A 100 HOUR INSPECTION AND WAS FOUND TO BE IN AIRWORTHY CONDITION.				
Technician Dylan Judd	License / Cert #	Signature 	Date 06-Jul-2024	

RAINBOW
HELICOPTERS

N740RH Airframe Logbook Entry

81 - 1/1

Version: 1

Airframe Make & Model (Serial) ROBINSON R44(2559)	Operator Rainbow Helicopters	Date 10-Jul-2024	Airframe Hours 4582.90	Airframe Landings 1876
Performed the Following Non-Routine Maintenance 01. DCS - MR high RPM reported at 103% - Engine RPM measured and verified with Track and Balance equipment and found to be within RHC specs. Unable to recreate 103%. Verified MR RPM at 102.5% Aircraft returned to service in regards to the work performed (43.9) only.				
Technician Clinton Hill	License / Cert #	Signature 	Date 10-Jul-2024	

REPLACEMENT)

40 - 1/1

Version: 1

RAINBOW
 HELICOPTERS

N740RH Airframe Logbook Entry
83 - 1/1

Version: 1

 LICENCE
 A ME or
 AMO/AC

 Airframe Make & Model (Serial)
 ROBINSON R44(2559)

 Operator
 Rainbow Helicopters

 Date
 01-Aug-2024

 Airframe Hours
 4668.70

 Airframe Landings
 2007

- Performed the Following Scheduled Items

01. 5 1000 - 100 HOUR INSPECTION PER RHC 1.170 - Part 91/135
02. 20 - INSPECT TAIL STINGER FOR SCRATCHES / GROUND CONTACT. TREAT / PAINT AS NECESSARY. - Work Description: Work Performed By Clinton Hill AP [REDACTED]
03. 25 - FIRE EXTINGUISHER INSPECTION
04. 29 0001 - REPLACE HYDRAULIC FILTER PER 1.170
05. 51 - Inspect landing gear attachment by moving tail boom - Work Description: No Defects Noted. Work Performed By Clinton Hill AP [REDACTED]
06. 62 1024 - PERFORM MAIN ROTOR BLADE TIP MAINTENANCE PER 28-60
07. 63 - LUBRICATE C181-3 LOWER FAN SHAFT BEARING PER MM SECTION 1.140

- Notes

HOBBS 2468.7

I CERTIFY THAT THIS AIRFRAME HAS BEEN INSPECTED IN ACCORDANCE WITH THE REQUIREMENTS FOR A 100 HOUR INSPECTION AND WAS FOUND TO BE IN AIRWORTHY CONDITION.

Technician

Mike G. Iven

 License / Cert #
 [REDACTED] AP, IA,
 CFI

Signature

Mike G. Iven [REDACTED]

Date

01-Aug-2024

Invoice 7165-001

Invoice Date: 05/02/2024

Job Desc: Perform Transponder certification per FAR 91.413

East West Avionics LLC

112 Nakolo Place

Honolulu, HI 96819

(808) 798-4026

Certified Repair Station

UWKR917L

**EAST WEST
AVIONICS****Invoice Submitted To:**

Novictor Aviation (Rainbow Helicopters)

Nicole Vandelaar

155 Kapalulu Place Suite 197

Honolulu, Hawaii 96819

808-492-8706

Aircraft Information:

Registration Number:

N740RH

Aircraft Make:

ROBINSON HELICOPTER

Aircraft Model:

R44

Aircraft Serial Number:

2559

Airframe Hobbs:

2198.68

Labor			
Description	Hours	Hrly Rate	Total
001: Perform Transponder certification per FAR 91.413 with a altitude check and leak check Corrective Action: Tested the pitot system with a leak rate of 0kts per min and the static system with a leak rate of 20ft per min. Performed testing of the transponder GTX345 S/N 3EE420256 altitude reporting, and static system to 20,000 ft per FAR's 43 appendix E par a and c. appendix F. Aircraft is in compliance with FAR 91.413.	3.37		
Labor Subtotal			
Shop Consumable Fee			
Description	Qty	Unit Price	Total
Shop Consumable Fee	1		
Subtotal			
Taxes			
State Tax (4.712% on Total Revenue)			
Grand Total			
Balance			

The work described on the above work order, 7165, was performed in accordance with current regulations of the FEDERAL AVIATION AGENCY. Aircraft or Component is airworthy and is APPROVED FOR RETURN to service.

PRELIM INSPECTION: 10 HIDDEN DAMAGE..... 1 PROG INSPECTION... 1

Authorized RTS Technician:

Sign: 5-2-2024

Thank You!

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AIRFRAME MAINTENANCE RECORD

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Phone (310) 539-0508 Fax (310) 539-5198

SECTION 4**LIFE-LIMITED PARTS OR OVERHAUL REQUIREMENTS**

Helicopter Serial Number 2559	Registration Number N740RH	Model R44 Raven I	Date of Manufacture September 24, 2018
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Part Name	Part Number	Serial Number	Time on Helicopter at Installation	Time on Part at Installation	Life-Limit or TBO	Time on Helicopter at Removal	Authorization
Main Rotor Gearbox	C006-8	4939	4398.05 HOURS 04/22/2024 DATE	0	2200 TBO	HOURS DATE	SIGN CERT
Main Rotor Blade	C106-7	16247	4398.05 04/22/2024	0	2200 HR/12 Year		
Main Rotor Blade	C106-7	16236	4398.05 04/22/2024	0	2200 HR/12 Year		
Swashplate Assembly	C017-6	7142	4398.05 04/22/2024	0	2200 TBO		
Frame Assembly	C020-1	11925	4398.05 04/22/2024	0	2200 Life		
Tail Rotor Gearbox	C021-1	3947	4398.05 04/22/2024	0	2200 TBO		
Tailcone Assembly	C023-1	12156	4398.05 04/22/2024	0	4400 Life		
Tail Rotor Blade	C029-3	18382	4398.05 04/22/2024	0	2200 HR/12 Year		
Tail Rotor Blade	C029-3	18398	4398.05 04/22/2024	0	2200 HR/12 Year		
Tail Rotor Hub Assembly	G062-1	9046	4398.05 04/22/2024	0	2200 Life		
Tail Rotor Pitch Control	C031-1	15176	4398.05 04/22/2024	0	2200 TBO		
Horizontal Stabilizer	C044-1	10572	4398.05 04/22/2024	1343.6	2000 Life		
Actuator	C051-2	11161	4398.05 04/22/2024	0	2200 TBO		
Main Rotor Gearset	C146-2	11786	4398.05 04/22/2024	0	2200 Life		
Main Rotor Hub	C154-1	13712	4398.05 04/22/2024	0	2200 Life		

SECTION 4 LIFE-LIMITED PARTS OR OVERHAUL REQUIREMENTS

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SECTION 4

LIFE-LIMITED PARTS OR OVERHAUL REQUIREMENTS

Helicopter Serial Number 2559	Registration Number N740RH	Model R44 Raven I	Date of Manufacture September 24, 2018
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Part Name	Part Number	Serial Number	Time on Helicopter at Installation	Time on Part at Installation	Life-Limit or TBO	Time on Helicopter at Removal	Authorization
Main Rotor Spindle	C158-1	30791	4398.05 HOURS 04/22/2024 DATE	0	2200 Life	HOURS DATE	SIGN CERT
Main Rotor Spindle	C158-1	30792	4398.05 04/22/2024	0	2200 Life		
Clutch Shaft	C166-5	3670	4398.05 04/22/2024	0	2200 TBO		
Bearing Assembly	C181-3	12523	4398.05 04/22/2024	0	2200 TBO		
Sprag Clutch	C188-3	14672	4398.05 04/22/2024	0	2200 TBO		
Main Rotor Drive Shaft	C251-2	R10331	4398.05 04/22/2024	0	2200 TBO		
Main Rotor Gearbox Sump	C263-2	10210	4398.05 04/22/2024	0	2200 Life		
Main Rotor Gearbox Housing	C264-2	12713	4398.05 04/22/2024	0	2200 Life		
Tail Rotor Gearset	C545-2	14246	4398.05 04/22/2024	0	2200 Life		
Bearing Set	C647-1	232598	4398.05 04/22/2024	0	2200 Life		
Tail Rotor Guard	D079-1	14303	4398.05 04/22/2024	0	2200 Life		
Tail Rotor Drive Shaft	D196-1	11647	4398.05 04/22/2024	0	4400 Life		
Hydraulic Reservoir Assembly	D211-2	7122	4398.05 04/22/2024	0	2200 TBO		
Hydraulic Servo Assembly	D212-1	32475	4398.05 04/22/2024	0	2200 TBO		
Hydraulic Servo Assembly	D212-1	14369	4398.05 04/22/2024	0	2200 TBO		

SECTION 4 LIFE-LIMITED PARTS OR OVERHAUL REQUIREMENTS

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AIRFRAME MAINTENANCE RECORD

SECTION 4

LIFE-LIMITED PARTS OR OVERHAUL REQUIREMENTS

Helicopter Serial Number 2559	Registration Number N740RH	Model R44 Raven I	Date of Manufacture September 24, 2018
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AIRFRAME MAINTENANCE RECORD

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SECTION 5

AIRWORTHINESS DIRECTIVES AND SERVICE BULLETINS

Helicopter Serial Number 2559	Registration Number N805NV	Model R44	Date of Manufacture 24/SEP/2018
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Airworthiness Directive or Service Bulletin No.	Item Affected	Time of Compliance	One-Time or Recurring	Next Due	Compliance Details	Authorization
All Service Bulletins complied with through SB-95 as applicable. All Airworthiness Directives complied with through biweekly issue AD 2018-19 during production.						RHC PC424WE
SB-96	TIMER				N/A : SN	[REDACTED]
SB-97	INDUCTION HOSE				N/A : Model Number	
SB-98B	AIR/OIL SEP HOSE RUN				N/A : SN	
SB-99	BATT. SUPPORT STRAPS	655.9 7-11-19	1 TIME		C/W	
SB-100	INDUCTION HOSE				N/A Model Number	
SB-101	FLIGHT CONTROL CAMP				N/A: NOT INSTALLED	
SB-102	ACCESS COVER				N/A S/N	
SB-103	M/R TIP CAP	1006, 1	1 TIME		REMOVE TIP PLATE	
SB-104	AIR/OIL SEPARATOR				N/A NOT INSTALLED	
SB-105	AUT. STATIC FILTER				N/A NOT INSTALLED	
SB-106	AUTO PILER				N/A NOT INSTALLED	
SB-107B	Fire Extinguisher	2200	1 Time		relocated per SB instructions	
SB-108	T/R Blades				N/A by S/N	

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SECTION 5 AIRWORTHINESS DIRECTIVES AND SERVICE BULLETINS

6 Allimeter and Static System Checks
2559
38.68



AIRFRAME MAINTENANCE RECORD

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Phone (310) 539-0508 Fax (310) 539-5198

SECTION 5

AIRWORTHINESS DIRECTIVES -AIRFRAME AND ROTOR

Helicopter Serial Number 2559	Registration Number N805NV	Model R44	Date of Manufacture September 2018
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Airworthiness Directive and Revision Date	Item Affected	Time of Compliance	One-Time or Recurring	Next Due	Compliance Details Method of Compliance	Accomplished by:
94-26-10	Cyclic Stick	HOURS DATE		HOURS DATE	N/A by S/N	SIGN CERT
95-09-07	Cyclic Control				N/A by S/N	
95-11-10 / 7/14/95	RFM	At build	One time		PCW by RHC RFM amended IAW para A of AD and placard installed IAW para B of AD.	
95-26-05R1	Rescinds				PCW by RHC	
96-18-22	Bolt				N/A by P/N	
97-02-15	Sensor				N/A by S/N	
97-16-02	Switch				N/A by S/N	
98-04-12	Spring				N/A by S/N	
98-05-10	Elbow				N/A by S/N	
98-22-16	M/R Blade Skin				N/A by P/N	
99-07-18	Sprag Clutch				N/A by S/N	
99-13-11	Fuel Sump				N/A by S/N	
99-17-17 / 10/7/99	Yoke				Parts Not Installed	
99-23-01	Grip				N/A P/N and S/M	

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SECTION 5 AIRWORTHINESS DIRECTIVES AND SERVICE BULLETINS

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SECTION 5

AIRWORTHINESS DIRECTIVES -AIRFRAME AND ROTOR

Helicopter Serial Number 2559	Registration Number N805NV	Model R44	Date of Manufacture September 2018
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Airworthiness Directive and Revision Date	Item Affected	Time of Compliance	One-Time or Recurring	Next Due	Compliance Details Method of Compliance	Accomplished by:
2000-07-03	Fuel Line	HOURS DATE		HOURS DATE	N/A by S/N	SIGN CERT
2000-08-04	Sprag Clutch				N/A by P/N	
2001-20-18	Horiz. Stabl.				N/A by P/N	
2003-04-05	Bearings				N/A by P/N	
2003-24-51	M/R Swashplate				N/A by P/N	
2007-11-01	Seat Belt				N/A by P/N	
2010-24-03	Tail Rotor Control				N/A by P/N	
2013-05-15	Floats				N/A Not Installed	
2014-23-16	M/R Blades				N/A by P/N	
2016-26-04	M/R Blades				N/A by P/N	
2019-12-18	Hose				N/A by P/N	MacQueen
2020-05-11	AG SPRAYER				N/A NOT INSTALLED	
2020-08-10	T/R BLADE				N/A P/N NOT INSTALLED	
2020-18-08	Intake Hose				N/A R44 II only	

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SECTION 5 AIRWORTHINESS DIRECTIVES AND SERVICE BULLETINS



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SECTION 5

AIRWORTHINESS DIRECTIVES AND SERVICE BULLETINS

Helicopter Serial Number 2559	Registration Number N805NV	Model R44 Raven I	Date of Manufacture September 24, 2018
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SECTION 5 AIRWORTHINESS DIRECTIVES AND SERVICE BULLETINS

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AIRFRAME MAINTENANCE RECORD**SECTION 5****AIRWORTHINESS DIRECTIVES - APPLIANCES**

Helicopter Serial Number 2559	Registration Number N805NV	Model R44	Date of Manufacture September 2018
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Airworthiness Directive and Revision Date	Item Affected	Time of Compliance	One-Time or Recurring	Next Due	Compliance Details Method of Compliance	Accomplished by:
		HOURS DATE		HOURS DATE		SIGN CERT
98-14-03	Radio				N/A by S/N	
87-17-06	Seat Belt				N/A Not Installed	
87-04-19	Seat Belt				N/A Not Installed	
80-05-04	Seat Belt				N/A Not Installed	
2005-05-19	Transponder				N/A Not Installed	
2001-23-17	Radio				N/A Not Installed	
87-06-09	Circuit Breakers				N/A by P/N	
2009-09-03	Injector gasket				N/A by M/N	
98-01-06	Venturi				N/A by S/N	
93-19-04	Float				N/A by S/N	
89-04-02	Pin Stop				N/A by P/N	
72-06-05R1	Throttle Arm				N/A by P/N	
94-08-09	Capicitor				N/A by P/N	
94-01-03R1	Coil/Magnet				N/A by P/N	

SECTION 5 AIRWORTHINESS DIRECTIVES AND SERVICE BULLETINS

RF 289 Revision B



2901 Airport Drive, Torrance, California 90505, USA

Phone (310) 539-0508 Fax (310) 539-5198

AIRWORTHINESS DIRECTIVES - APPLIANCES

[illegible]



ROBINSON
HELICOPTER COMPANY

2901 Airport Drive, Torrance, California 90505, USA

AIRFRAME MAINTENANCE RECORD

Phone (310) 539-0508 Fax (310) 539-5198

SECTION 5

AIRWORTHINESS DIRECTIVES - ENGINES

Engine Serial Number L-27791-40E	Registration Number N/A	Model O-540-F1B5	Date of Manufacture April 2018
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Airworthiness Directive and Revision Date	Item Affected	Time of Compliance	One-Time or Recurring	Next Due	Compliance Details Method of Compliance	Accomplished by:
		HOURS DATE		HOURS DATE		SIGN CERT
73-23-01	Piston Pin				N/A by P/N	
75-08-09	Oil Drive				N/A by P/N	
87-10-06R1	Rocker Arms				N/A by P/N	
92-12-05	Piston Pin				N/A by P/N	
95-07-01	Bolts				N/A by P/N	
95-26-02	Fuel				N/A by P/N	
96-09-10	Impeller				N/A by P/N	
96-23-03	Fuel Pump Flange				N/A by P/N	
97-15-11	Piston Pin				N/A by P/N	
98-02-08	Crank Shaft				N/A by P/N	
98-17-11	Crank Shaft				N/A by P/N	
99-03-05	Bolt				N/A by P/N	
2001-05-24	Bolt				N/A by P/N	
2004-10-14	Gear				N/A by P/N	

RF 289 Revision B

SECTION 5 AIRWORTHINESS DIRECTIVES AND SERVICE BULLETINS

6 Attimeter and Static System Checks

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2901 Airport Drive, Torrance, California 90505, USA

AIRFRAME MAINTENANCE RECORD

Phone (310) 539-0508 Fax (310) 539-5198

SECTION 5

AIRWORTHINESS DIRECTIVES - ENGINES

Engine Serial Number L-27791-40E	Registration Number N/A	Model O-540-F1B5	Date of Manufacture April 2018
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[illegible]

SECTION 5 AIRWORTHINESS DIRECTIVES AND SERVICE BULLETINS

RF 289 Revision B

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HELICOPTER COMPANY

AIRFRAME MAINTENANCE RECORD

2901 Airport Drive, Torrance, California 90505, USA

Phone (310) 539-0508 Fax (310) 539-5198

SECTION 6

ALTIMETER AND STATIC SYSTEM CHECKS

Helicopter Serial Number 2559	Registration Number N805NV	Model R44	Date of Manufacture 24/SEP/2018
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[illegible]

RF 290 Revision B

SECTION 6 ALTIMETER AND STATIC SYSTEM CHECKS

DATE	AIR TIME	LANDINGS / CYCLES	
TROPIC AIRPOWER Quality Aircraft Engine Overhaul FAA Overhaul Repair Station T7KR187Y 20600 SW Citrus Blvd Indiantown, Florida Ph 561-964-8770 www.tropicairpower.com			
Date January 31, 2024, Work Order# 1765 Engine; Lycoming O-540-F1B5 S/N L-27723-40E. This Engine/Power Plant is zero time "SINCE" overhaul-rebuild to new limits. Total Time continuing. The engine has been test run successfully, is airworthy and approved for return to service. Eligibility is TBV by the installer. Details of work on record at this repair station. Overhaul of Engine: Lycoming Crankshaft, Counterweights overhauled, mains/rods M003/M003. Crankshaft Dynamic Balanced. Six New Rods, Rocker Arms O/Hauled (A.S.S). Crankcase overhauled, Divco). Lycoming Roller Camshaft Re-Certified. New Roller Tappets. New Main/Rod bearings. O/H Lycoming cylinder Assemblies with Nickel barrels, All New internal parts; Valves, guides, seats, springs, retainers, pistons, pins, brass plugs. The cylinders were Lycon computer ported/polished flow matched and Alodine heads. New exhaust manifolds, rocker shafts. New Rod bolts/nuts. New hardware throughout. New Thru-Studs. All new gaskets, seals, clamps and locking devices. New Return/Drain back Tubes/hoses, clamps, magneto cushion rubbers. Magnetos: Rebuilt Blue Label (TCM). New, New Horizon Ignition Harness and UREMOE sparkplugs. New Crankshaft Gear & bolt. New Idler Gear. Carburetor o/h (Marvel Schebler). All parts cleaned Inspected-NDT. New oil pressure spring and ball. New Vernatherm. New 67542 magneto bearings in crankcase. New Skytec 149-12HT-H2 12VDC Starter motor. New Silicon Valve cover gaskets. New inter-cylinder Baffling and D754-4 baffling. New front mount bushing/insert. Engine test run with Phillips Mineral 20w50 oil and Cortec 329. Oil filter cut open after test run, clean, new AA48108-2 filter installed. New no blow exhaust gaskets with RHC hardware. All engine open ports plugged/covered. Oil cooler overhauled (Pacific Oil Cooler). "OIL DRAINED FROM ENGINE" "NO OIL IN ENGINE" Mark Young Admin.			

N807NV 4/26/2024 S/N 2559 TSO: 0 Total Time: 2356
 Installed this engine after overhaul from Tropic Airpower. Completed annual inspection and performed AD search. Updated AD listing. Installed with new engine mounts, reinstalled old engine baffling after making basic sheet metal repairs in accordance with AC43.13 1B. Oil cooler, magnetos, carburetor and starter all overhauled and installed. Serviced engine with Aeroshell 100w straight mineral oil. Run up and leak check OK. Balanced engine cooling fan. I certify that this ENGINE has been inspected in accordance with an Annual inspection and was determined to be in an airworthy condition.
 Ryan Williams, AIP

RAINBOW HELICOPTERS		N740RH Engine Logbook Entry		1 - 1/1
				Version: 1
Engine Make & Model (Serial)	Operator	Date	Engine Hours	
O-540-F1B5(L-27723-40E)	Rainbow Helicopters	08-May-2024	2359.70	
- Performed the Following Scheduled Items 01. 5 3000 - 10 HOUR ENGINE INSPECTION - One time				
Technician	License / Cert #	Signature	Date	
Clinton Hill		Clinton Hill	08-May-2024	

RAINBOW
HELICOPTERS

N740RH Engine Logbook Entry

2 - 1/1

1b

Engine Make & Model (Serial) O-540-F1B5(L-27723-40E)	Operator Rainbow Helicopters	Date 15-May-2024	Engine Hours 2383.90
Performed the Following Scheduled Items 01. 5 3002 - 25 HOUR ENGINE INSPECTION - One time 02. 5 3005 - 50 HOUR ENGINE INSPECTION - Work Description: Performed compression checks. #1: 78, #2: 77, #3: 78, #4: 78, #5: 77, and #6: 78. Drained mineral oil and serviced with AS100+ and Camguard. Inspected oil filter and suction screen with no debris noted. Removed, cleaned, inspected, tested, and reinstalled all spark plugs. No defects. 03. 71 - 25/75 HOUR OIL CHANGE. Performed the Following Service Bulletins 04. R44 SB-112 - SB112 TAIL ROTOR BLADE INSPECTION. SEE FLIGHT LOG FOR DAILY INSPECTION RECORD. PAINT BOND LINE AT 25 HOUR INSPECTION. 05. SB 480 - PERFORM LYCOMING SB 480 (AND R44 SL-83, AS APPLICABLE) I. OIL & FILTER CHANGE & SCREEN CLEANING / II. OIL FILTER/SCREEN CONTENT - Notes: NOTE: OIL FILTERS ON D723-1 ADAPTERS DO NOT REQUIRE SAFETY WIRE.			
Technician Mike Underwood		License / Cert # [REDACTED]	Signature Mike Underwood
		Date 15-May-2024	

NAME/
SIGNATURE

LICENCE:
AME or
AMO/ACA

RAINBOW
HELICOPTERS

N740RH Engine Logbook Entry

3 - 1/1

Engine Make & Model (Serial) O-540-F1B5(L-27723-40E)	Operator Rainbow Helicopters	Date 21-May-2024	Engine Hours 2383.90
Performed the Following Non-Routine Maintenance 01. DCS - ROUGH R/H MAG DROP - REPLACED BOTTOM PLUGS OF 2 and 4 Notes hobbs: 2225.9 Aircraft returned to service in regards to the work performed (43.9) only.			
Technician Genevieve Starren		License / Cert # [REDACTED]	Signature Genevieve Starren
		Date 21-May-2024	

RAINBOW
HELICOPTERS

N740RH Engine Logbook Entry

4 - 1/1

Engine Make & Model (Serial) O-540-F1B5(L-27723-40E)	Operator Rainbow Helicopters	Date 25-May-2024	Engine Hours 4450.10
Performed the Following Scheduled Items 01. 5 3005 - 50 HOUR ENGINE INSPECTION - Work Description: Compressions are as follows #1: 74 #2: 78 #3: 78 #4: 76 #5: 72 #6: 76. Work Performed By Dylan Judd AM4334605. Removed Mass Electrode Spark Plugs and Installed New Champion REM 385 Fine Wire Sparkplugs. Work Performed By William Meyers AP3780701 02. 71 - 25/75 HOUR OIL CHANGE. - Work Description: SERVICED WITH 9 QTS AEROSHELL 15W50 AND 14.4 OZ OF CAM GUARD OIL ADDITIVE. Performed the Following Service Bulletins 03. R44 SB-112 - SB112 TAIL ROTOR BLADE INSPECTION. SEE FLIGHT LOG FOR DAILY INSPECTION RECORD. PAINT BOND LINE AT 25 HOUR INSPECTION. 04. SB 480 - PERFORM LYCOMING SB 480 (AND R44 SL-83, AS APPLICABLE) I. OIL & FILTER CHANGE & SCREEN CLEANING / II. OIL FILTER/SCREEN CONTENT - Work Description: Removed oil filter, cut open, and inspected, no defects noted. Installed New CH48108-1 Oil Filter. Work Performed By William Meyers AP3780701. Removed Suction Screen and Inspected, No Defects Noted, Installed Suction Screen w/ New Crush Gasket. Work Performed By Genny Starren AM4685089 Notes: NOTE: OIL FILTERS ON D723-1 ADAPTERS DO NOT REQUIRE SAFETY WIRE. 05. SL 1080C - PERFORM LYCOMING SL 1080C - MAINTENANCE ITEMS FOR SPECIAL ATTENTION Performed the Following Non-Routine Maintenance 06. DCS - R/H ENGINE COOLING PANEL WORN - REPLACED ENGINE COOLING PANEL WITH NEW, P/N A305-7			
Technician Dylan Judd		License / Cert # [REDACTED]	Signature Dylan Judd
		Date 25-May-2024	

RAINBOW
HELICOPTERS

N740RH Engine Logbook Entry

5 - 1/1

Engine Make & Model (Serial) O-540-F1B5(L-27723-40E)	Operator Rainbow Helicopters	Date 02-Jun-2024	Engine Hours 2434.80
Performed the Following Scheduled Items 01. 5 - FIRST 100 HOURS ENGINE INSPECTION - Notes: ONE TIME COMPLIANCE AT FIRST 100 HR IN SERVICE 02. 5 3005 - 50 HOUR ENGINE INSPECTION 03. 5 3007 - 100 HOUR ENGINE INSPECTION 04. 71 - 25/75 HOUR OIL CHANGE Performed the Following Service Bulletins 05. SB 301B - PERFORM LYCOMING SB 301B - MAINTENANCE PROCEDURES AND SERVICE LIMITATIONS FOR VALVES 06. SB 388C - PERFORM LYCOMING SB 388C - PROCEDURE TO DETERMINE EXHAUST VALVE AND GUIDE CONDITION 07. SB 480 - PERFORM LYCOMING SB 480 (AND R44 SL-83, AS APPLICABLE) I. OIL & FILTER CHANGE & SCREEN CLEANING / II. OIL FILTER/SCREEN CONTENT - Notes: NOTE: OIL FILTERS ON D723-1 ADAPTERS DO NOT REQUIRE SAFETY WIRE. 08. SL 1080C - PERFORM LYCOMING SL 1080C - MAINTENANCE ITEMS FOR SPECIAL ATTENTION 09. SL 1129B - PERFORM LYCOMING SL 1129B - METHODS OF CHECKING DC ALTERNATOR AND GENERATOR BELT TENSION 10. SL 1191A - PERFORM LYCOMING SL 1191A - CYLINDER COMPRESSION I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH THE REQUIREMENTS FOR A 100 HOUR INSPECTION AND WAS FOUND TO BE IN AIRWORTHY CONDITION.			
Technician Clinton Hill		License / Cert # [REDACTED]	Signature Clinton Hill
		Date 02-Jun-2024	

DAILY TOTAL		TOTAL		DAILY TOTAL	TOTAL
HRS	MIN	HOURS	MIN		

DETAILS OF TASK (INSPECTION, REPAIRS & REPLACEMENT)

CARRIED FORWARD

RAINBOW
HELICOPTERS

N740RH Engine Logbook Entry

6 - 1/1

Version: 1

Engine Make & Model (Serial)
O-540-F1B5(L-27723-40E)

Operator
Rainbow Helicopters

Date
05-Jun-2024

Engine Hours
2443.40

Performed the Following Non-Routine Maintenance

01. DCS - Engine oil leak. - Discovered leak at oil line fitting at top of accessory gearbox. Removed fitting, applied thread sealant, and reinstalled fitting. After ground runs, no further leaks noted.

Aircraft returned to service in regards to the work performed (43.9) only.

Technician
Mike Underwood

License / Cert #
[REDACTED]

Signature
Mike Underwood

Date
05-Jun-2024

RAINBOW
HELICOPTERS

N740RH Engine Logbook Entry

8 - 1/1

Version: 1

Engine Make & Model (Serial)
O-540-F1B5(L-27723-40E)

Operator
Rainbow Helicopters

Date
07-Jun-2024

Engine Hours
2452.30

Performed the Following Non-Routine Maintenance

01. DCS - Erratic CHT in flight observed - CHT probe R&R. In reference to RHC MM 13-52

Technician
Anthony Fritzsche

License / Cert #
A&P [REDACTED]

Signature
[REDACTED]

Date
07-Jun-2024

RAINBOW
HELICOPTERS

N740RH Engine Logbook Entry

9 - 1/1

Version: 1

Engine Make & Model (Serial)
O-540-F1B5(L-27723-40E)

Operator
Rainbow Helicopters

Date
07-Jun-2024

Engine Hours
2454.40

Performed the Following Scheduled Items

01. 71 - 25/75 HOUR OIL CHANGE - Work Description: SERVICED WITH 9 QTS AEROSHELL 15W50 AND 14.4 OZ OF CAM GUARD.

Notes
HOBBS 2296.4

Technician
Mike G. Iven

License / Cert #
[REDACTED] AP, IA, CFI

Signature
Mike G. Iven

Date
07-Jun-2024

RAINBOW
HELICOPTERS

N740RH Engine Logbook Entry

10 - 1/1

Version: 1

Engine Make & Model (Serial)
O-540-F1B5(L-27723-40E)

Operator
Rainbow Helicopters

Date
14-Jun-2024

Engine Hours
2486.30

Performed the Following Scheduled Items

01. 5 3005 - 50 HOUR ENGINE INSPECTION

02. 71 - 25/75 HOUR OIL CHANGE

Performed the Following Service Bulletins

03. SB 480 - PERFORM LYCOMING SB 480 (AND R44 SL-83, AS APPLICABLE) I. OIL & FILTER CHANGE & SCREEN CLEANING / II. OIL FILTER/SCREEN CONTENT - Work Description: SERVICE WITH 9 QTS AEROSHELL 15W50 AND 14.4 OZ OF CAM GUARD. INSPECTED FILTER AND SCREEN. NO SIGNIFICANT PARTICLES FOUND. Notes: NOTE: OIL FILTERS ON D723-1 ADAPTERS DO NOT REQUIRE SAFETY WIRE.

04. SL 1080C - PERFORM LYCOMING SL 1080C - MAINTENANCE ITEMS FOR SPECIAL ATTENTION

Notes
HOBBS 2328.3 - ETSO 130.3

Technician
Mike G. Iven

License / Cert #
[REDACTED] AP, IA, CFI

Signature
Mike G. Iven

Date
14-Jun-2024

PAGE
TOTAL

RAINBOW HELICOPTERS

N740RH Engine Logbook Entry

11 - 1/1

LICENCE:
AME or
AMO/AC

Engine Make & Model (Serial)
O-540-F1B5(L-27723-40E)

Operator
Rainbow Helicopters

Date
20-Jun-2024

Engine Hours
4548.10

- Performed the Following Scheduled Items
- 01. 25 1005 - VERIFY RIGHT MAGNETO (OR EIS) DRIVE CUSHION PLIABILITY INSPECTION. - (MUST TOLERATE 180° BEND)
- Performed the Following Component Changes
- 02. 74 - RIGHT MAGNETO - SB643 500HR Inspection - Work Description: REPLACED WITH OH UNIT DUE TO RPM FLUCTUATIONS. VERIFIED DRIVE ADAPTER PN.

PN Off	SN Off	PN On	SN On	Removal Reason	Inst. Part Status	MSO	TSO	LSO
10-600646-201	E23EA143R	10-600646-201	245094	[N] Other (See Notes)	[O] Overhauled	0	0.00	-
- Performed the Following Service Bulletins
- 03. 463 - RIGHT MAGNETO - PERFORM 100 HR TCM SB 643B - MAINTENANCE INTERVALS FOR ALL TCM & BENDIX A/C MAGNETOS & RELATED EQUIPMENT. - Work Description: REPLACED WITH OH UNIT.
- 04. SB 663A - RH RIGHT MAG PERFORM TCM SB 663A - TWO-WIRE MAGNETO TACH. BREAKER CONTACT (POINTS) ASSY. P/N 10-400507 - Work Description: REPLACED WITH OH UNIT. Notes: RH Mag only

- Notes
HOBBS 2348.1

Technician
Mike G. Iven

License / Cert #
CFI [REDACTED] AP, IA,

Signature

Mike G. Iven

Date
20-Jun-2024

RAINBOW HELICOPTERS

N740RH Engine Logbook Entry

12 - 1/1

Version: 1

Engine Make & Model (Serial)
O-540-F1B5(L-27723-40E)

Operator
Rainbow Helicopters

Date
21-Jun-2024

Engine Hours
2512.40

- Performed the Following Scheduled Items
- 01. 71 - 25/75 HOUR OIL CHANGE - Work Description: SERVICED WITH 9 QTS AEROSHELL 15W50 AND 14.4 OZ OF CAM GUARD OIL ADDITIVE.

Technician
Dylan Judd

License / Cert #
[REDACTED]

Signature

Dylan Judd

Date
21-Jun-2024

RAINBOW HELICOPTERS

N740RH Engine Logbook Entry

13 - 1/1

Version: 1

Engine Make & Model (Serial)
O-540-F1B5(L-27723-40E)

Operator
Rainbow Helicopters

Date
30-Jun-2024

Engine Hours
2525.80

- Performed the Following Component Changes
- 01. 74 - RIGHT MAGNETO - SB643 500HR Inspection

PN Off	SN Off	PN On	SN On	Removal Reason	Inst. Part Status	MSO	TSO	LSO
10-600646-201	245094	BL-600646-210	E13IA016R	[F] Failed	[O] Overhauled	0	0.00	-
- Performed the Following Service Bulletins
- 02. 463 - RIGHT MAGNETO - PERFORM 100 HR TCM SB 643B - MAINTENANCE INTERVALS FOR ALL TCM & BENDIX A/C MAGNETOS & RELATED EQUIPMENT. - Work Description: Removed and Replaced w/ Overhauled Magneto
- 03. SB 663A - RH RIGHT MAG PERFORM TCM SB 663A - TWO-WIRE MAGNETO TACH. BREAKER CONTACT (POINTS) ASSY. P/N 10-400507 - Work Description: Removed and Replaced w/ Overhauled Magneto Notes: RH Mag only
- Performed the Following Non-Routine Maintenance
- 04. DCS - Pilot Reports Governor tries to Maintain Engine RPM Over 103% - Removed RH Magneto and Replaced w/ Overhauled Magneto, Ground Ran Helicopter, Ops Check Good.

- Notes
Hobbs: 2367.8

Technician
Anthony Fritsche

License / Cert #
A&P [REDACTED]

Signature

Date
30-Jun-2024

Engine Make & Model (Serial) Operator Date 21-Jun-2024 Engine Hours 2512.40

REORDER FROM:
AVIATION BUSINESS SYSTEMS
725 North Memorial Parkway
HUNTSVILLE, ALABAMA 35891
1-800-633-2950

N740RH
630524
23678

Maintenance Release

The aircraft, airframe, aircraft engine, propeller or appliance identified below was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service.

Pertinent details of the repairs under

Work Order # 43169 are herein attached

Dated 28 SEPTEMBER 2023

Inspected By

Cert. # A/P

SERVICEABLE

Name BENDIX (TCM) (CMI)

Unit MAGNETO S6LSC-204T

Part # 6L-000646-201 Ser. # E131A016R

Aircraft ID#

Disposition RETURN TO SERVICE

Reason For Removal OVERHAUL

Removed By RAINBOW HELICOPTERS

AD or Service SEE REVERSE SIDE OF TAG FOR LISTING

Bulletins

Work OVERHAULED IAW

Performed CMI FORM # X42002-4

FAA Certificate No.

AIRCRAFT MAGNETO SERVICE

3995 FLYING LANE #5-5

STEVENSVILLE, MT 59870

www.aircraftmagneto.com

Engine Make & Model (Serial) Operator Date 06-Jul-2024 Engine Hours 2526.90
O-540-F1B5(L-27723-40E) Rainbow Helicopters

- Performed the Following Scheduled Items
- 01. 5 3005 - 50 HOUR ENGINE INSPECTION - Work Description: Tech- Dylan Judd AP 4334605
 - 02. 5 3007 - 100 HOUR ENGINE INSPECTION
 - 03. 71 - 25/75 HOUR OIL CHANGE - Work Description: SERVICED WITH 9 QTS AEROSHELL 15W50 AND 14.4 OZ OF CAM GUARD OIL ADDITIVE. Tech- Dylan Judd AP4334605

- Performed the Following Service Bulletins
- 04. 463 - LEFT MAGNETO - PERFORM 100 HR TCM SB 643B - MAINTENANCE INTERVALS FOR ALL TCM & BENDIX A/C MAGNETOS & RELATED EQUIPMENT. - Work Description: Inspected, no defects noted. Work Performed by Genny Starren AP 4685089.
 - 05. 463 - RIGHT MAGNETO - PERFORM 100 HR TCM SB 643B - MAINTENANCE INTERVALS FOR ALL TCM & BENDIX A/C MAGNETOS & RELATED EQUIPMENT. - Work Description: Inspected, no defects noted. Work Performed by Genny Starren AP 4685089.
 - 06. SB 301B - PERFORM LYCOMING SB 301B - MAINTENANCE PROCEDURES AND SERVICE LIMITATIONS FOR VALVES - Work Description: Work Performed by Louis Stitt AP4917332
 - 07. SB 388C - PERFORM LYCOMING SB 388C - PROCEDURE TO DETERMINE EXHAUST VALVE AND GUIDE CONDITION - Work Description: Work Performed by Louis Stitt AP4917332
 - 08. SB 480 - PERFORM LYCOMING SB 480 (AND R44 SL-83, AS APPLICABLE) I. OIL & FILTER CHANGE & SCREEN CLEANING / II. OIL FILTER/SCREEN CONTENT - Work Description: Removed and Inspected Filter and Suction Screen, No Defects Noted, Installed New CH48108-1 Oil Filter and Reinstalled Suction Screen w/ New Crush Gasket. Tech- Brian Babcock AP 4544348 Notes: NOTE: OIL FILTERS ON D723-1 ADAPTERS DO NOT REQUIRE SAFETY WIRE.
 - 09. SL 1080C - PERFORM LYCOMING SL 1080C - MAINTENANCE ITEMS FOR SPECIAL ATTENTION - Work Description: Visually inspected, no defects noted.
 - 10. SL 1129B - PERFORM LYCOMING SL 1129B - METHODS OF CHECKING DC ALTERNATOR AND GENERATOR BELT TENSION - Work Description: Inspected, no defects noted.
 - 11. SL 1191A - PERFORM LYCOMING SL 1191A - CYLINDER COMPRESSION - Work Description: Compressions are as Follows: 1. 79 2. 73 3. 79 4. 74 5. 76 6. 73 Work Performed by Anthony Fritsche AP3286125

— Notes
Hobbs: 2368.9
I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH THE REQUIREMENTS FOR A 100 HOUR INSPECTION AND WAS FOUND TO BE IN AIRWORTHY CONDITION.

Technician License / Cert # Genevieve Starren
Genevieve Starren

Date 06-Jul-2024

Section 1: Airframe Log

DATE / /	AIR TIME				LANDINGS / CYCLES		DETAILS OF TASK (INSPECTION, REPAIRS & REPLACEMENT)
	DAILY TOTAL		TOTAL		DAILY TOTAL	TOTAL	
	HRS	MIN	HOURS	MIN			
CARRIED FORW.							

RAINBOW
HELICOPTERS

N740RH Engine Logbook Entry

17 - 1/1

Version: 1

Engine Make & Model (Serial)
O-540-F1B5(L-27723-40E)

Operator
Rainbow Helicopters

Date
12-Jul-2024

Engine Hours
2551.00

Performed the Following Scheduled Items
01. 71 - 25/75 HOUR OIL CHANGE

Performed the Following Non-Routine Maintenance
02. DCS - Compressions: #1 78/80 #2 80/80 #3 78/80 #4 77/80 #5 75/80 #6 77/80

Aircraft returned to service in regards to the work performed (43.9) only.

Technician
Clinton Hill

License / Cert #
[REDACTED]

Signature
[REDACTED]

Clinton Hill

Date
12-Jul-2024

RAINBOW
HELICOPTERS

N740RH Engine Logbook Entry

18 - 1/1

Version: 1

Engine Make & Model (Serial)
O-540-F1B5(L-27723-40E)

Operator
Rainbow Helicopters

Date
13-Jul-2024

Engine Hours
2554.30

Performed the Following Scheduled Items
01. 72 - Cylinder compressions - Work Description: #1 79 #2 79 #3 78 #4 77 #5 77 #6 74

Technician
Clinton Hill

License / Cert #
[REDACTED]

Signature
[REDACTED]

Clinton Hill

Date
13-Jul-2024

RAINBOW
HELICOPTERS

N740RH Engine Logbook Entry

19 - 1/1

Version: 1

Engine Make & Model (Serial)
O-540-F1B5(L-27723-40E)

Operator
Rainbow Helicopters

Date
16-Jul-2024

Engine Hours
2564.50

Performed the Following Service Bulletins
01. SL 1191A - PERFORM LYCOMING SL 1191A - CYLINDER COMPRESSION - Work Description: Compressions are as Follows: 1. 78 2. 78 3. 74 4. 78 5. 79 6. 76 Work Performed by Anthony Fritsche AP3286125

Technician
Anthony Fritsche

License / Cert #
A&P [REDACTED]

Signature
[REDACTED]

Date
16-Jul-2024

RAINBOW
HELICOPTERS

N740RH Engine Logbook Entry

20 - 1/1

Version: 1

Engine Make & Model (Serial)
O-540-F1B5(L-27723-40E)

Operator
Rainbow Helicopters

Date
17-Jul-2024

Engine Hours
2569.20

Performed the Following Service Bulletins
01. SL 1191A - PERFORM LYCOMING SL 1191A - CYLINDER COMPRESSION - Work Description: 1. 79/80 2. 79/80 3. 76/80 4. 74/80 5. 75/80 6. 76/80

Notes
Hobbs: 2411.2

Technician
Clinton Hill

License / Cert #
[REDACTED]

Signature
[REDACTED]

Clinton Hill

Date
17-Jul-2024

PAGE
TOTALS

CARRY FORWARD to Top of Next Page

RAINBOW
 HELICOPTERS

N740RH Engine Logbook Entry
21 - 1/1

 Engine Make & Model (Serial)
 O-540-F1B5(L-27723-40E)

 Operator
 Rainbow Helicopters

 Date
 18-Jul-2024

 Engine Hours
 2573.50

Version: 1

E/
TURE
 LICENCE:
 AME or
 AMO/ACA

- Performed the Following Scheduled Items

01. 5 3005 - 50 HOUR ENGINE INSPECTION
02. 71 - 25/75 HOUR OIL CHANGE

- Performed the Following Service Bulletins

03. S8 480 - PERFORM LYCOMING S8 480 (AND R44 SL-83, AS APPLICABLE) 1. OIL & FILTER CHANGE & SCREEN CLEANING / II. OIL FILTER/SCREEN CONTENT - Notes: NOTE: OIL FILTERS ON D723-1 ADAPTERS DO NOT REQUIRE SAFETY WIRE.
04. SL 1080C - PERFORM LYCOMING SL 1080C - MAINTENANCE ITEMS FOR SPECIAL ATTENTION
05. SL 1191A - PERFORM LYCOMING SL 1191A - CYLINDER COMPRESSION - Work Description: #1 76/80 #2 80/80 #3 77/80 #4 78/80 #5 77/80 #6 74/80

Aircraft returned to service in regards to the work performed (43.9) only.

Technician

License / Cert #

Signature

Mike Underwood

Date

18-Jul-2024

RAINBOW
 HELICOPTERS

N740RH Engine Logbook Entry
22 - 1/1

Version: 1

 Engine Make & Model (Serial)
 O-540-F1B5(L-27723-40E)

 Operator
 Rainbow Helicopters

 Date
 19-Jul-2024

 Engine Hours
 2576.80

- Performed the Following Service Bulletins

01. SL 1191A - PERFORM LYCOMING SL 1191A - CYLINDER COMPRESSION

- Notes

HOBBS 2418.8

Aircraft returned to service in regards to the work performed (43.9) only.

Technician

License / Cert #

Signature

Clinton Hill

Date

19-Jul-2024

RAINBOW
 HELICOPTERS

N740RH Engine Logbook Entry
23 - 1/1

Version: 1

 Engine Make & Model (Serial)
 O-540-F1B5(L-27723-40E)

 Operator
 Rainbow Helicopters

 Date
 20-Jul-2024

 Engine Hours
 2581.60

- Performed the Following Service Bulletins

01. SL 1191A - PERFORM LYCOMING SL 1191A - CYLINDER COMPRESSION - Work Description: 1) 79/80 2) 79/80 3) 78/80 4) 78/80 5) 78/80 6) 78/80

- Performed the Following Non-Routine Maintenance

02. DCS - blade not turning within 5 seconds - clutch adjusted to turn blades faster

- Notes

Hobbs: 2423.6

Aircraft returned to service in regards to the work performed (43.9) only.

Technician

License / Cert #

Signature

Genevieve Starren

Date

20-Jul-2024

RAINBOW
 HELICOPTERS

N740RH Engine Logbook Entry
24 - 1/1

Version: 1

 Engine Make & Model (Serial)
 O-540-F1B5(L-27723-40E)

 Operator
 Rainbow Helicopters

 Date
 21-Jul-2024

 Engine Hours
 2587.70

- Performed the Following Service Bulletins

01. SL 1191A - PERFORM LYCOMING SL 1191A - CYLINDER COMPRESSION - Work Description: 1) 78 2) 76 3) 77 4) 75 5) 78 6) 77

Technician

License / Cert #

Signature

Date

21-Jul-2024

Anthony Fritsche

DATE / /	AIR TIME				LANDINGS / CYCLES		DETAILS OF TASK (INSPECTION, REPAIRS & REPLACEMENT)
	DAILY TOTAL		TOTAL		DAILY TOTAL	TOTAL	
	HRS	MIN	HOURS	MIN			
CARRIED FORWARD							

RAINBOW
HELICOPTERS

N740RH Engine Logbook Entry

25 - 1/1

Version: 1

Engine Make & Model (Serial)
O-540-F1B5(L-27723-40E)

Operator
Rainbow Helicopters

Date
22-Jul-2024

Engine Hours
2592.00

Performed the Following Service Bulletins

01. SL 1191A - PERFORM LYCOMING SL 1191A - CYLINDER COMPRESSION - Work Description: HOBBS: 2434.0 1) 79 2) 75 3) 78 4) 75 5) 76 6) 74

Aircraft returned to service in regards to the work performed (43.9) only.

Technician

License / Cert #

Signature

Lucas Cervantez

Date

22-Jul-2024

Lucas Cervantez

RAINBOW
HELICOPTERS

N740RH Engine Logbook Entry

26 - 1/1

Version: 1

Engine Make & Model (Serial)
O-540-F1B5(L-27723-40E)

Operator
Rainbow Helicopters

Date
23-Jul-2024

Engine Hours
2594.20

Performed the Following Service Bulletins

01. SL 1191A - PERFORM LYCOMING SL 1191A - CYLINDER COMPRESSION

Notes

HOBBS: 2436.2

Compressions: #1: 77 #2: 77 #3: 78 #4: 74 #5: 76 #6: 77

Aircraft returned to service in regards to the work performed (43.9) only.

Technician

License / Cert #

Signature

Lucas Cervantez

Date

23-Jul-2024

Lucas Cervantez

RAINBOW
HELICOPTERS

N740RH Engine Logbook Entry

27 - 1/1

Version: 1

Engine Make & Model (Serial)
O-540-F1B5(L-27723-40E)

Operator
Rainbow Helicopters

Date
24-Jul-2024

Engine Hours
2597.30

Performed the Following Service Bulletins

01. SL 1191A - PERFORM LYCOMING SL 1191A - CYLINDER COMPRESSION - Work Description: All compressions above 76/80.

Notes

Hobbs 2439.3

Technician

License / Cert #
AP, 1A,

Signature

Mike G. Iven

Date

24-Jul-2024

Mike G. Iven

RAINBOW
HELICOPTERS

N740RH Engine Logbook Entry

28 - 1/1

Version: 1

Engine Make & Model (Serial)
O-540-F1B5(L-27723-40E)

Operator
Rainbow Helicopters

Date
25-Jul-2024

Engine Hours
2601.50

Performed the Following Scheduled Items

01. 71 - 25/75 HOUR OIL CHANGE

Performed the Following Service Bulletins

02. SL 1191A - PERFORM LYCOMING SL 1191A - CYLINDER COMPRESSION

Notes

HOBBS 2443.5 COMPRESSION #1 78: #2 78: #3 78: #4 76: #5 75 #6 78

Aircraft returned to service in regards to the work performed (43.9) only.

Technician

License / Cert #

Signature

Brian Babcock

Date

25-Jul-2024

Brian Babcock

4b

NAME/
SIGNATURE

LICENCE:
AME or
AMO/ACA

RAINBOW
HELICOPTERS

N740RH Engine Logbook Entry

30 - 1/1

Version: 1

Engine Make & Model (Serial)
O-540-F1B5(L-27723-40E)

Operator
Rainbow Helicopters

Date
26-Jul-2024

Engine Hours
2608.60

Performed the Following Service Bulletins

01. SL 1191A - PERFORM LYCOMING SL 1191A - CYLINDER COMPRESSION - Work Description: Compression: #1: 79/80 #2: 75/80 #3: 78/80 4#:
78/80 5#: 76/80 6#: 78/80

Notes

HOBBS: 2450.6

Aircraft returned to service in regards to the work performed (43.9) only.

Technician

Lucas Cervantez

License / Cert #

Signature

Cervantez

Date

26-Jul-2024

RAINBOW
HELICOPTERS

N740RH Airframe Logbook Entry

82 - 1/1

Version: 1

Airframe Make & Model (Serial)
ROBINSON R44(2559)

Operator
Rainbow Helicopters

Date
27-Jul-2024

Airframe Hours
4655.40

Airframe Landings
1987

Performed the Following Service Bulletins

01. SL 1191A - PERFORM LYCOMING SL 1191A - CYLINDER COMPRESSION - Work Description: #1 78/80 #2 72/80 #3 78/80 #4 74/80 #5 76/80
#6 76/80

Notes

HOBBS: 2455.4

Aircraft returned to service in regards to the work performed (43.9) only.

Technician

Clinton Hill

License / Cert #

Signature

Clinton Hill

Date

27-Jul-2024

RAINBOW
HELICOPTERS

N740RH Engine Logbook Entry

31 - 1/1

Version: 1

Engine Make & Model (Serial)
O-540-F1B5(L-27723-40E)

Operator
Rainbow Helicopters

Date
28-Jul-2024

Engine Hours
2618.90

Performed the Following Service Bulletins

01. SL 1191A - PERFORM LYCOMING SL 1191A - CYLINDER COMPRESSION - Work Description: #1 78/80 #2 74/80 #3 77/80 #4 76/80 #5 76/80
#6 76/80

Notes

HOBBS: 2460.9

Aircraft returned to service in regards to the work performed (43.9) only.

Technician

Clinton Hill

License / Cert #

Signature

Clinton Hill

Date

28-Jul-2024

DA	AIR TIME	LANDINGS / CYCLES	32 - 1/1	
RAINBOW HELICOPTERS				
N740RH Engine Logbook Entry				
Version: 1				
CARR FORW	Engine Make & Model (Serial) O-540-F1B5(L-27723-40E)	Operator Rainbow Helicopters	Date 01-Aug-2024	Engine Hours 2626.70
Performed the Following Scheduled Items				
01. 5 3005 - 50 HOUR ENGINE INSPECTION - Work Description: Compressions good				
02. 5 3007 - 100 HOUR ENGINE INSPECTION				
03. 5 3010 - 300 HOUR ENGINE INSPECTION				
04. 71 - 25/75 HOUR OIL CHANGE - Work Description: SERVICED WITH 9 QTS AEROSHELL 15W50 AND 14.4 OZ OF CAM GUARD OIL ADDITIVE. Work Performed By Clinton Hill AP 3162292				
Performed the Following Service Bulletins				
05. 463 - LEFT MAGNETO - PERFORM 100 HR TCM SB 643B - MAINTENANCE INTERVALS FOR ALL TCM & BENDIX A/C MAGNETOS & RELATED EQUIPMENT.				
06. 463 - RIGHT MAGNETO - PERFORM 100 HR TCM SB 643B - MAINTENANCE INTERVALS FOR ALL TCM & BENDIX A/C MAGNETOS & RELATED EQUIPMENT.				
07. SB 301B - PERFORM LYCOMING SB 301B - MAINTENANCE PROCEDURES AND SERVICE LIMITATIONS FOR VALVES				
08. SB 388C - PERFORM LYCOMING SB 388C - PROCEDURE TO DETERMINE EXHAUST VALVE AND GUIDE CONDITION				
09. SB 480 - PERFORM LYCOMING SB 480 (AND R44 SL-83, AS APPLICABLE) I. OIL & FILTER CHANGE & SCREEN CLEANING / II. OIL FILTER/SCREEN CONTENT - Work Description: Inspected Oil Filter and Suction Screen, No Defects Noted. Work Performed By Clinton Hill AP 3162292 Notes: NOTE: OIL FILTERS ON D723-1 ADAPTERS DO NOT REQUIRE SAFETY WIRE.				
10. SL 1080C - PERFORM LYCOMING SL 1080C - MAINTENANCE ITEMS FOR SPECIAL ATTENTION				
11. SL 1129B - PERFORM LYCOMING SL 1129B - METHODS OF CHECKING DC ALTERNATOR AND GENERATOR BELT TENSION				
12. SL 1191A - PERFORM LYCOMING SL 1191A - CYLINDER COMPRESSION - Work Description: 1) 80/80 2) 80/80 3) 79/80 4) 77/80 5) 76/80 6) 79/80				
Performed the Following Non-Routine Maintenance				
13. DCS - T6 Ignition Lead Chafed - ITEM IS EXTREMELY MINOR, COSMETIC.				
14. DCS - Cylinder #1, #3, and #4 Exhaust Stack Showing Signs of Leakage - REPLACED GASKETS.				
15. DCS - L/H Outboard Cylinder Baffle Spring Misaligned - REPLACED SPRING.				
Notes				
Hobbs 2468.7				
I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH THE REQUIREMENTS FOR A 100 HOUR INSPECTION AND WAS FOUND TO BE IN AIRWORTHY CONDITION.				
Technician	License / Cert #	Signature	Date	
Mike G. Iven	AP, IA,	Mike G. Iven	01-Aug-2024	

RAINBOW HELICOPTERS		N740RH Engine Logbook Entry		33 - 1/1	
Version: 1					
Engine Make & Model (Serial) O-540-F1B5(L-27723-40E)	Operator Rainbow Helicopters	Date 05-Aug-2024	Engine Hours 2642.00		
Performed the Following Service Bulletins					
01. SL 1191A - PERFORM LYCOMING SL 1191A - CYLINDER COMPRESSION - Work Description: Compressions: #1: 79/80 #2: 79/80 #3: 78/80 #4: 78/80 #5: 74/80 #6: 76/80					
Notes					
HOBBS: 2484.0					
Aircraft returned to service in regards to the work performed (43.9) only.					
Technician	License / Cert #	Signature	Date		
Lucas Cervantez		Lucas Cervantez	05-Aug-2024		

RAINBOW HELICOPTERS		N740RH Engine Logbook Entry		34 - 1/1	
Version: 1					
Engine Make & Model (Serial) O-540-F1B5(L-27723-40E)	Operator Rainbow Helicopters	Date 08-Aug-2024	Engine Hours 2655.30		
Performed the Following Scheduled Items					
01. 71 - 25/75 HOUR OIL CHANGE - Work Description: SERVICED WITH 9 QTS AEROSHELL 15W50 AND 14.4 OZ OF CAM GUARD OIL ADDITIVE.					
Performed the Following Service Bulletins					
02. SL 1191A - PERFORM LYCOMING SL 1191A - CYLINDER COMPRESSION - Work Description: Compressions: #1: 79, #2: 79, #3: 78, #4: 78, #5: 78, #6: 75.					
Notes					
Hobbs: 2497.3					
Technician	License / Cert #	Signature	Date		
Mike Underwood		Mike Underwood	08-Aug-2024		

PAGE TOTALS

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RAINBOW
HELICOPTERS

N740RH Engine Logbook Entry

35 - 1/1

5b

Engine Make & Model (Serial)
O-540-F1B5(L-27723-40E)

Operator
Rainbow Helicopters

Date
15-Aug-2024

Engine Hours
2692.30

Version: 1

— Performed the Following Scheduled Items

01. 5 3005 - 50 HOUR ENGINE INSPECTION
02. 71 - 25/75 HOUR OIL CHANGE

— Performed the Following Service Bulletins

03. SB 480 - PERFORM LYCOMING SB 480 (AND R44 SL-83, AS APPLICABLE) I. OIL & FILTER CHANGE & SCREEN CLEANING / II. OIL FILTER/SCREEN CONTENT - Notes: NOTE: OIL FILTERS ON D723-1 ADAPTERS DO NOT REQUIRE SAFETY WIRE.
04. SL 1080C - PERFORM LYCOMING SL 1080C - MAINTENANCE ITEMS FOR SPECIAL ATTENTION
05. SL 1191A - PERFORM LYCOMING SL 1191A - CYLINDER COMPRESSION

— Notes

Hobbs 2524.3, compression check: #1: 79, #2: 78, #3: 80, #4: 74, #5: 76, #6: 78

Aircraft returned to service in regards to the work performed (43.9) only.

Technician

Brian Babcock

License / Cert #

Signature

Brian Babcock

Date

15-Aug-2024

LICENCE:
AME or
AMO/ACA

----- MICROBASE SPECTRUM ANALYSIS REPORT -----

DATE: 04/26/2024 20:48:22

OPER:

Work Order:

Customer:

A/C: N740RH

Mdl: R44

S/N: 2559

Misc:

Hrs: 0.0

Cmp:

Mdl:

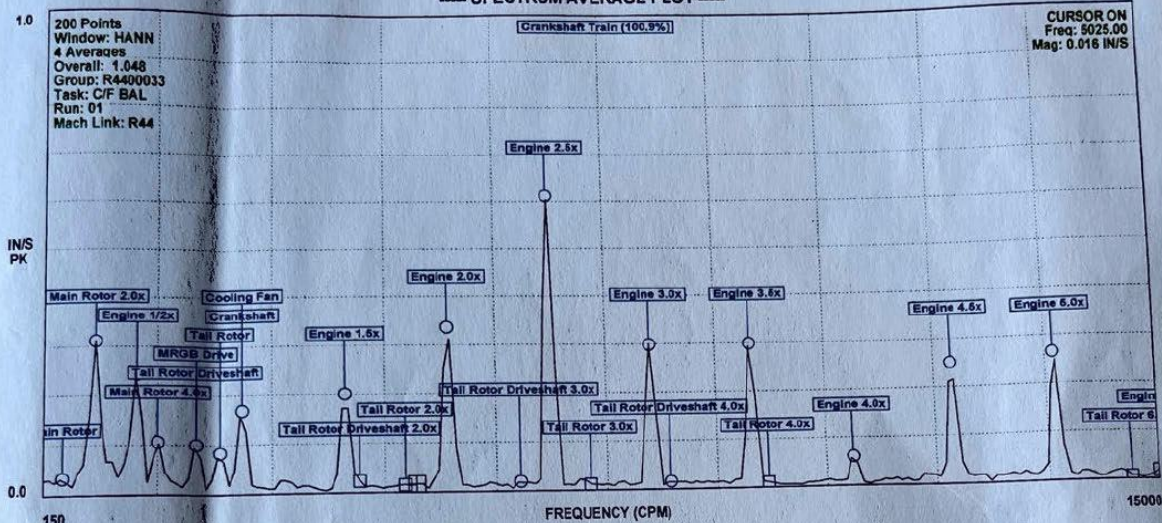
S/N:

Misc:

Hrs: 0.0

Group: R4400033 Task: C/F BAL

----- SPECTRUM AVERAGE PLOT -----



----- PEAK LISTING - 150 TO 15000 CPM -----

FREQ (CPM)	MAG (IN/S)	ALARM	STATUS	DESCRIPTION	FREQ (CPM)	MAG (IN/S)	ALARM	STATUS	DESCRIPTION
402.1	0.034	-	-	Main Rotor	823.3	0.312	-	-	Main Rotor 2.0x
1363.5	0.243	-	-	Engine 1/2x	1630.9	0.106	-	-	Main Rotor 4.0x
2123.7	0.100	-	-	Tail Rotor Driveshaft	2123.7	0.100	-	-	MRGB Drive
2430.6	0.063	-	-	Tail Rotor	2724.8	0.169	-	-	Crankshaft
2724.8	0.169	-	-	Tail Rotor	4087.5	0.202	-	-	Engine 1.5x
4275.0	0.025	-	-	Cooling Fan	4876.0	0.016	-	-	Tail Rotor 2.0x
5449.1	0.337	-	-	Tail Rotor Driveshaft 2.0x	6410.2	0.020	-	-	Tail Rotor Driveshaft 3.0x
6813.7	0.612	-	-	Engine 2.0x	7350.0	0.013	-	-	Tail Rotor 3.0x
8176.7	0.299	-	-	Engine 2.5x	8432.9	0.017	-	-	Tail Rotor Driveshaft 4.0x
9538.5	0.299	-	-	Engine 3.0x	9750.0	0.010	-	-	Tail Rotor 4.0x
10902.1	0.061	-	-	Engine 3.5x	12263.6	0.251	-	-	Engine 4.5x
13626.3	0.265	-	-	Engine 4.0x	14625.0	0.006	-	-	Tail Rotor 6.0x
				Engine 5.0x					

----- OPERATOR COMMENTS -----

740RH.SPC 04/26/2024 20:50:20

Printed By MicroBase Professional 2.22 (1430) - Collected By MicroVib II (1.35.104.75) - SN:3359 - Cal:06/30/2023

Standard analysis taken straight out of overhaul.
The larger spikes seen are from combustion and are at
healthy levels. If vibrations are found later,
another analysis can be taken to compare to
this one

SECTION 9 MAINTENANCE

7 Radio and Electronic Checks

8 Scheduled Inspections

RF 293 Revision B

RAINBOW HELICOPTERS **N740RH Airframe Logbook Entry** 59 - 1/1
Version: 1

Airframe Make & Model (Serial)	Operator	Date	Airframe Hours	Airframe Landings
ROBINSON R44(2559)	Rainbow Helicopters	01-Nov-2023	4257.30	1404

— Performed the Following Scheduled Items
01. 25 - FIRE EXTINGUISHER INSPECTION

— Performed the Following Non-Routine Maintenance
02. DCS - ADDED HYDRAULIC FLUID TO JUST UNDER DOT - ADDED FLUID

— Notes
HOBBS: 2057.3

Technician License / Cert # Signature Date
Genevieve Starren [REDACTED] Genevieve Starren 01-Nov-2023

RAINBOW HELICOPTERS **N740RH Airframe Logbook Entry** 61 - 1/1
Version: 1

Airframe Make & Model (Serial)	Operator	Date	Airframe Hours	Airframe Landings
ROBINSON R44(2559)	Rainbow Helicopters	28-Dec-2023	4329.30	1503

— Performed the Following Non-Routine Maintenance
01. DCS - CLUTCH LIGHT FLICKERED ON FINAL FOR A FEW SECONDS. - REPLACED DOWN LIMIT SWITCH WITH NEW PART PR MM.

— Notes
HOBBS 2129.4

Technician License / Cert # Signature Date
Mike G. Iven [REDACTED] Mike G. Iven 28-Dec-2023

RAINBOW HELICOPTERS **N740RH Airframe Logbook Entry** 62 - 1/1
Version: 1

Airframe Make & Model (Serial)	Operator	Date	Airframe Hours	Airframe Landings
ROBINSON R44(2559)	Rainbow Helicopters	01-Mar-2024	4391.30	1598

— Performed the Following Scheduled Items
01. 25 - FIRE EXTINGUISHER INSPECTION

— Notes
hobbs: 2189.7
3/1/24

Technician License / Cert # Signature Date
Keith Lovin [REDACTED] Keith Lovin 01-Mar-2024

RAINBOW HELICOPTERS **N740RH Airframe Logbook Entry** 63 - 1/1
Version: 1

Airframe Make & Model (Serial)	Operator	Date	Airframe Hours	Airframe Landings
ROBINSON R44(2559)	Rainbow Helicopters	01-Mar-2024	2189.70	-

— Performed the Following Non-Routine Maintenance
01. DCS - M/R chip light inop. - ops check during gnd run successful. - Work Description: ops check during gnd run successful.
Aircraft returned to service in regards to the work performed (43.3) only.

Technician License / Cert # Signature Date
Keith Lovin [REDACTED] Keith Lovin 01-Mar-2024

RAINBOW HELICOPTERS **N740RH Airframe Logbook Entry** 64 - 1/1
Version: 1

Airframe Make & Model (Serial)	Operator	Date	Airframe Hours	Airframe Landings
ROBINSON R44(2559)	Rainbow Helicopters	07-May-2024	4398.70	1614

— Performed the Following Non-Routine Maintenance
01. DCS - LOW HYDRAULIC FLUID - ADDED HYDRAULIC FLUID UNTIL AT THE HALF WAY MARK

Technician License / Cert # Signature Date
Genevieve Starren [REDACTED] Genevieve Starren 07-May-2024

RAINBOW HELICOPTERS **N740RH Airframe Logbook Entry** 65 - 1/1
Version: 1

Airframe Make & Model (Serial)	Operator	Date	Airframe Hours	Airframe Landings
ROBINSON R44(2559)	Rainbow Helicopters	07-May-2024	4398.70	1614

— Performed the Following Non-Routine Maintenance
01. DCS - LANDING GEAR TBO - REPLACED LANDING GEAR WITH NEW. ASSEMBLED WITH MASTINOX AND PRO SEAL PER MM AND AC43.13

— Notes
HOBBS 2198.7

Technician License / Cert # Signature Date
Mike G. Iven [REDACTED] Mike G. Iven 07-May-2024



ROBINSON

HELICOPTER COMPANY

2901 Airport Drive, Torrance, California 90505, USA

Phone (310) 539-0500

SECTION 9

MAINTENANCE

Model R44

12

AIRFRAME MAINTENANCE RECORD

REPTION OF WORK PERFORMED OR APPROVED DATA USED (CF

AIRFRAME MAINTENANCE RECORD

Phone (310) 539-0508

2901 Airport Drive, Torrance, California 90505-1164

ROBINSON®
HELICOPTER COMPANY

RAINBOW
HELICOPTERS

N740RH Airframe Logbook Entry

72 - 1/1

Airframe Make & Model (Serial)	Operator	Date	Airframe Hours	Airframe Landings
ROBINSON R44(2559)	Rainbow Helicopters	21-May-2024	4429.00	1657

Version: 1

Performed the Following Non-Routine Maintenance

01. DCS - throttle grip loose - REPLACED THROTTLE GRIP WITH NEW, AND USED GLUE

Notes

HOBBS: 2229.0

Aircraft returned to service in regards to the work performed (43.9) only.

Technician	License / Cert #	Signature	Date
Genevieve Starnen		<i>Genevieve Starnen</i>	21-May-2024

RAINBOW
HELICOPTERS

N740RH Airframe Logbook Entry

73 - 1/1

Airframe Make & Model (Serial)	Operator	Date	Airframe Hours	Airframe Landings
ROBINSON R44(2559)	Rainbow Helicopters	22-May-2024	4433.40	1662

Version: 1

Performed the Following Non-Routine Maintenance

01. DCS - Hydraulic and MRG8 fluid low - FILLED HYDRAULIC AND MRG8 OIL IAW R44 HM.

Notes

HOBBS: 2267.1

Aircraft returned to service in regards to the work performed (43.9) only.

Technician	License / Cert #	Signature	Date
Anthony Fritsche	AA	<i>Anthony Fritsche</i>	22-May-2024

RAINBOW
HELICOPTERS

N740RH Airframe Logbook Entry

74 - 1/1

Airframe Make & Model (Serial)	Operator	Date	Airframe Hours	Airframe Landings
ROBINSON R44(2559)	Rainbow Helicopters	30-May-2024	4467.10	1706

Version: 1

Performed the Following Non-Routine Maintenance

01. DCS - TAIL LIGHT INSTALLED UPSIDE DOWN. - FIXED TAIL LIGHT TO BE INSTALLED WITH THE TOP ON TOP

Notes

HOBBS: 2267.1

Aircraft returned to service in regards to the work performed (43.9) only.

Technician	License / Cert #	Signature	Date
Genevieve Starnen		<i>Genevieve Starnen</i>	30-May-2024

RAINBOW
HELICOPTERS

N740RH Airframe Logbook Entry

75 - 1/1

Airframe Make & Model (Serial)	Operator	Date	Airframe Hours	Airframe Landings
ROBINSON R44(2559)	Rainbow Helicopters	02-Jun-2024	4476.80	1719

Version: 1

Performed the Following Scheduled Items

01. 5 1000 - 100 HOUR INSPECTION PER RHC 1.170 - Part 91/135

02. 20 - INSPECT TAIL STINGER FOR SCRATCHES / GROUND CONTACT. TREAT / PAINT AS NECESSARY.

03. 62 1024 - PERFORM MAIN ROTOR BLADE TIP MAINTENANCE PER 28-60

Performed the Following Service Bulletins

04. 463 - LEFT MAGNETO - PERFORM 100 HR TCM SB 643B - MAINTENANCE INTERVALS FOR ALL TCM & BENDIX A/C MAGNETOS & RELATED EQUIPMENT.

05. 463 - RIGHT MAGNETO - PERFORM 100 HR TCM SB 643B - MAINTENANCE INTERVALS FOR ALL TCM & BENDIX A/C MAGNETOS & RELATED EQUIPMENT.

06. R44 SB-112 - SB112 TAIL ROTOR BLADE INSPECTION. SEE FLIGHT LOG FOR DAILY INSPECTION RECORD. PAINT BOND LINE AT 25 HOUR INSPECTION.

I CERTIFY THAT THIS AIRFRAME HAS BEEN INSPECTED IN ACCORDANCE WITH THE REQUIREMENTS FOR A 100 HOUR INSPECTION AND WAS FOUND TO BE IN AIRWORTHY CONDITION.

Technician	License / Cert #	Signature	Date
Clinton Hill		<i>Clinton Hill</i>	02-Jun-2024

RAINBOW
HELICOPTERS

N740RH Airframe Logbook Entry

76 - 1/1

Airframe Make & Model (Serial)	Operator	Date	Airframe Hours	Airframe Landings
ROBINSON R44(2559)	Rainbow Helicopters	05-Jun-2024	4485.40	1732

Version: 1

Performed the Following Non-Routine Maintenance

01. DCS - Carb heat friction interference with collective. - Adjusted carb heat friction and collective permanent friction assembly as required.

Aircraft returned to service in regards to the work performed (43.9) only.

Technician	License / Cert #	Signature	Date
Mike Underwood		<i>Mike Underwood</i>	05-Jun-2024

RF 293 Revision B

ROBINSON®

HELICOPTER COMPANY

2901 Airport Drive, Torrance, California 90505, USA

Phone (310) 539-0508 Fax (310) 539-51

AIRFRAME MAINTENANCE RECORD

9 MAINTENANCE

RAINBOW
HELICOPTERS

N740RH Airframe Logbook Entry

77 - 1/1

Version: 2

Airframe Make & Model (Serial) ROBINSON R44(2559)	Operator Rainbow Helicopters	Date 29-Jun-2024	Airframe Hours 4566.80	Airframe Landings 1845
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Performed the Following Component Changes

01. 31 1020 - GOVERNOR - Work Description: REPLACED SN 1922 WITH SN 2914 FOLLOWING PIREP OF RPM FLUCTUATIONS.
 PN Off SN Off PN On SN On Removal Reason Inst. Part Status
 No Part Removed D279-1 2914 [O] Overhauled

Notes

REPLACED GOVERNOR AFTER 168.8 TSO - HOBBS 2366.8

Technician Mike G. Iven	License / Cert # CPI	Signature Mike G. Iven	Date 29-Jun-2024
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RAINBOW
HELICOPTERS

N740RH Airframe Logbook Entry

78 - 1/1

Version: 1

Airframe Make & Model (Serial) ROBINSON R44(2559)	Operator Rainbow Helicopters	Date 01-Jul-2024	Airframe Hours 4568.10	Airframe Landings 1851
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Performed the Following Non-Routine Maintenance

01. DCS - RPM still running high. - Followed John Mehohmeter analysis found oil soaked connector on tach harness. cleaned connector per standard practices. run up rpm normal.

Notes

HOBBS 2368.1

Technician Mike G. Iven	License / Cert # CPI	Signature Mike G. Iven	Date 01-Jul-2024
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RAINBOW
HELICOPTERS

N740RH Airframe Logbook Entry

79 - 1/1

Version: 1

Airframe Make & Model (Serial) ROBINSON R44(2559)	Operator Rainbow Helicopters	Date 03-Jul-2024	Airframe Hours 4568.70	Airframe Landings 1854
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Performed the Following Component Changes

01. 76 - GOVERNOR MOTOR & CLUTCH ASSY - FOR RELIABILITY TRACKING ONLY - Work Description: REPLACED MOTOR FOLLOWING 0.5% ABOVE NORMAL RPM TOLERANCE (103).
 PN Off SN Off PN On SN On Removal Reason Inst. Part Status
 -5R NA B247-5 NA [N] Other (See Notes) [O] Overhauled

Notes

HOBBS 2368.7 -

Technician Mike G. Iven	License / Cert # CPI	Signature Mike G. Iven	Date 03-Jul-2024
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