

AIRCRAFT LOG
AF5-1

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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Make/Model: R22
Serial No: 1918M
Hobbs: 701.4
ACTT: 2902.1
ACTSO: 701.4

Reg No: N178EP
Date: 8/21/2024
WO#: 002883
EngTT: 2902.1
EngTSO: 701.4



Description of Work Performed

- Complied with Annual inspection IAW FAR 43 App D & Ref RHC R22 Maintenance Manual Sec 2.410 checklist as revised. Complied with applicable engine inspection. See engine logbook for details.
- Complied with all applicable ADs through bi-weekly 2024-15
- AD 2024-04-02. N/A per TRBs S/Ns installed
- SB-122, N/A per retainers installed
- Verified sheave alignment. Ref. RHC R22 MM Sec. 7.230. Results: L 0.045" R 0.030"
- Verified tail rotor driveshaft run out. Ref. RHC R44 MM Sec. 7.340. Results: Alt 0.006" 0.009" 0.007" 0.009" Fwd
- Verified clutch shaft angle Ref. R.H.C. R22 M.M. Sec. 7.240. Results: 4.9 degrees
- Cleaned gearbox chip detectors. Ref. RHC R22 MM Sec. 22-11 & 22-21
- Removed main rotor blades due to brinelled spindles, replaced brinelled spindles with new (SEE WO 2871) & reinstalled main rotor blades Ref. RHC R22 MM Sec. 26-10 Part A & B and C.M.M. Chp. 62
- Verified main rotor track and balance to be less than 0.20 IPS and within 0.2" at all airspeeds. Ref. RHC R22 MM Sec. 10.230
- Complied with run up check, leak check, all operational checks, and post maintenance flight. Results good. All work performed ref RHC R22 maintenance manual. Lycoming O-320 Ops Manual, and FAR 43 App D

I certify this aircraft has been inspected in accordance with an annual inspection and was determined to be in airworthy condition.


Lance Workman AP/IA 3892417

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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Make/Model: R22
Serial No: 1918M
Hobbs: 801.4
ACTT: 3002.1
ACTSO: 801.4

Reg No: N178EP
Date: 10/17/2024
WO#: 002937
EngTT: 3002.1
EngTSO: 801.4



Description of Work Performed

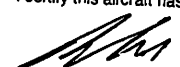
- Complied with 100 hour inspection Ref. RHC R22 Maintenance Manual Sec. 2.410 checklist as revised. Complied with applicable engine inspection. See engine logbook for details.
- Verified sheave alignment. Ref. RHC R22 MM Sec. 7.230. Results: L 0.055" R 0.045"
- Verified tail rotor driveshaft run out. Ref. RHC R44 MM Sec. 7.340. All below .025
- Verified clutch shaft angle Ref. R.H.C. R22 M.M. Sec. 7.240. Results: 2.5 degrees
- Replaced drive belts due to excessive clutch shaft angle. Lubed lower bearing ref R22 MM 22-42. Reinstalled fan wheel and balanced ref 6.240. results: .003 @ 11.18. Replaced broken safety cable on actuator ref R22 IPC figure 63-19
- Complied with run up check, leak check, all operational checks, and post maintenance flight. Results good. All work performed ref RHC R22 maintenance manual. Lycoming O-320 Ops Manual, and FAR 43 App D

I certify this aircraft has been inspected in accordance with a 100 hour inspection and was determined to be in airworthy condition.


Tommy Garst AP 3581293

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/Model: R22 Serial No: 1918M Hobbs: 501.5 ACTT: 2702.2 ACTSO: 501.5	Reg No: N178EP Date: 1/10/2024 WO#: 002690 EngTT: 2702.2 EngTSO: 501.5	
Description of Work Performed			
- Complied with 100HR inspection IAW FAR 43 App D & Ref. RHC R22 Maintenance Manual Sec. 2.410 checklist as revised. Complied with applicable engine inspection. See engine logbook for details - Complied with all applicable ADs through bi-weekly 2024-01 - Adjusted sheave alignment. Ref. RHC R22 MM Sec. 7.230. Results: L. 0.060" R. 0.040" - Verified tail rotor driveshaft run out. Ref. RHC R44 MM Sec. 7.340. Results: Alt 0.003" 0.006" 0.006" 0.005" Fwd - Verified clutch shaft angle Ref. R.H.C. R22 M.M. Sec. 7.240. Results: 5.0 degrees - Performed gearbox flushes. Ref. RHC R22 MM Sec. 22-13 & 22-23 - Cleaned main rotor gearbox and tail rotor gearbox chip detectors. Ref. RHC R22 MM Sec. 22-11 & 22-21 - Serviced tail rotor gearbox with Swepeco 201. Ref. RHC R22 MM Sec. 22-20 - Performed clutch assembly lubricant inspection and service. Ref. RHC R22 MM Sec. 22-30 - Installed patch doubler on oil cooler mounting panel. Ref. AC 43.13-1B, Sec. 4 - Adjusted dual tach rotor rpm. Ref. RHC R22 MM Sec. 13-23 Part D - Complied with run up check, leak check, all operational checks, and post maintenance flight. Results good. All work performed ref RHC R22 maintenance manual, Lycoming O-320 Ops Manual, and FAR 43 App D			
I certify this aircraft has been inspected in accordance with a 100HR inspection and was determined to be in airworthy condition.			
 Paul Thorsen AP 3295491			

INSPECTION RECORD

F.A.R. 43.11-91.409

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		SIGNATURE —	CERT. NO. OF PERSON APPROVING OR DISAPPROVING AIRCRAFT FOR SERVICE
	Make/Model: R22 Serial No 1918M Hobbs 601.5 ACTT 2802.2 ACTSO 601.5	Reg No. N178EP Date: 4/10/2024 WO#: 002760 EngTT 2802.2 EngTSO: 601.5	
Description of Work Performed			
- Complied with 100HR inspection IAW FAR 43 App D & Ref. RHC R22 Maintenance Manual Sec. 2.410 checklist as revised. Complied with applicable engine inspection. See engine logbook for details - Complied with all applicable ADs through bi-weekly 2024-07 - AD 2024-04-02, N/A per tail rotor blades S/Ns - Adjusted sheave alignment. Ref. RHC R22 MM Sec. 7.230. Results: L. 0.032" R. 0.012" - Verified tail rotor driveshaft run out. Ref. RHC R44 MM Sec. 7.340. Results: Alt 0.007" 0.004" 0.006" 0.003" Fwd - Verified clutch shaft angle Ref. RHC R22 MM Sec. 7.240. Results: 2.9 degrees - Lubricated upper bearing Ref. RHC R22 MM Sec. 22-41 - Replaced drive belts w/ new P/N A190-2. Ref. RHC R22 MM Sec. 7.281 & 7.282 - Removed main rotor blade, replaced spindle boot w/ new P/N A156-4, serviced pitch bearing housing, and reinstalled main rotor blade. Ref. RHC R22 MM Sec. 26-10 Part A & B, 26-11 Part A & B, & 26-12 - Installed new grip tape on lower L/H frame P/N A751-2. Ref. RHC R22 IPC Fig. 53-9 - Shimmed tail rotor gearbox to adjust intermediate flex plate shimming. Ref. RHC R22 MM Sec. 7.330 - Reshimmed tail rotor push pull tube bell crank. Ref. RHC R22 IPC Fig. 67-41 - Balanced fan wheel assembly to 0.14 IPS. Ref. RHC R22 MM Sec. 6.240 - Complied with run up check, leak check, all operational checks, and post maintenance flight. Results good. All work performed ref RHC R22 maintenance manual, Lycoming O-320 Ops Manual, and FAR 43 App D			
I certify this aircraft has been inspected in accordance with a 100HR inspection and was determined to be in airworthy condition.			
 Lance Workman AP 3892417			

INSPECTION RECORD F.A.R. 43.11-91.409

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

Make/Model: R22
Serial No: 1918M
Hobbs: 301.5
ACTT: 2502.2
ACTSO: 301.5

Reg No: N178EP
Date: 7/19/2023
WO#: 002488
EngTT: 2502.2
EngTSO: 301.5



Description of Work Performed

- Complied with Annual Inspection IAW FAR 43 App D & Ref. RHC R22 Maintenance Manual Sec. 2.410 checklist as revised. Complied with applicable engine inspection. See engine logbook for details
- Complied with all applicable ADs through bi-weekly 2023-15
- Verified sheave alignment. Ref. RHC R22 MM Sec. 7.230. Results: L 0.068" R 0.046"
- Verified tail rotor driveshaft run out. Ref. RHC R44 MM Sec. 7.340. Results: Alt 0.011" 0.012" 0.008" 0.010" Fwd
- Verified clutch shaft angle Ref. R.H.C. R22 M.M. Sec. 7.240. Results: 4.1 degrees
- AD 2023-11-07, N/A radar altimeter not installed
- Complied with SB-120, by removing old tail rotor blades and installing NEW TRBs P/N A029-2, S/Ns 11933 & 11935. (RHC S.O. 367463)
- Lubricated upper A184 bearing. Ref. RHC R22 MM Sec. 22-41
- Removed main rotor blades due to brinelled spindles, replaced brinelled spindles with new (RHC S.O. 367097) (NDT S&S Testing W.O. 5509 dated 6-7-2023), & reinstalled main rotor blades. Ref. RHC R22 MM Sec. 26-10 Part A & B and C.M.M. Chp. 62.
- Balanced tail rotor assembly to 0.13 IPS. Ref. RHC R22 MM Sec. 10.240
- Verified main rotor track and balance to be less than 0.20 IPS and within 0.2" at all airspeeds. Ref. RHC R22 MM Sec. 10.230
- Complied with run up check, leak check, all operational checks, and post maintenance flight. Results good. All work performed ref RHC R44 maintenance manual, Lycoming O-320 Ops Manual, and FAR 43 App D

I certify this aircraft has been inspected in accordance with an annual inspection and was determined to be in airworthy condition.


Lance Workman AP/IA 3892417

DATE AIRCRAFT TIME IN SERVICE
KIND OF INSPECTION-STATUS & DISCREPANCY LIST
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Make/Model: R22
Serial No: 1918M
Hobbs: 401.5
ACTT: 2602.2
ACTSO: 401.5

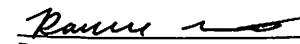
Reg No: N178EP
Date: 11/8/2023
WO#: 002620
EngTT: 2602.2
EngTSO: 401.5



Description of Work Performed

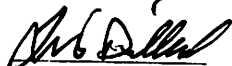
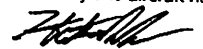
- Complied with 100HR inspection IAW FAR 43 App D & Ref. RHC R22 Maintenance Manual Sec. 2.410 checklist as revised. Complied with applicable engine inspection. See engine logbook for details
- Complied with all applicable ADs through bi-weekly 2023-23
- Adjusted sheave alignment. Ref. RHC R22 MM Sec. 7.230. Results: L 0.045" R 0.035"
- Verified tail rotor driveshaft run out. Ref. RHC R44 MM Sec. 7.340. Results: Alt 0.004" 0.006" 0.005" 0.005" Fwd
- Verified clutch shaft angle Ref. R.H.C. R22 M.M. Sec. 7.240. Results: 4.6 degrees
- Cleaned main rotor gearbox and tail rotor gearbox chip detectors. Ref. RHC R22 MM Sec. 22-11 & 22-21
- Serviced tail rotor gearbox with Swepeco 201. Ref. RHC R22 MM Sec. 22-20
- Installed serviceable cabin heat system. Ref. RHC R22 MM Sec. 11-20, IPC Chp. 21, & KI-256 Rev. C
- Replaced torn cyclic gnp w/ new. Ref. RHC R22 IPC Fig. 67-1
- Complied with run up check, leak check, all operational checks, and post maintenance flight. Results good. All work performed ref RHC R22 maintenance manual, Lycoming O-320 Ops Manual, and FAR 43 App D

I certify this aircraft has been inspected in accordance with a 100HR inspection and was determined to be in airworthy condition.


Randall Gunter AP PENDING

INSPECTION RECORD

F.A.R. 43.11-91.409

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DATE	AIRCRAFT TIME IN SERVICE	DATE	AIRCRAFT TIME IN SERVICE
KIND OF INSPECTION-STATUS & DISCREPANCY LIST SIGNATURE — CERT. NO. OF PERSON APPROVING OR DISAPPROVING AIRCRAFT FOR SERVICE		KIND OF INSPECTION-STATUS & DISCREPANCY LIST SIGNATURE — CERT. NO. OF PERSON APPROVING OR DISAPPROVING AIRCRAFT FOR SERVICE	
Make/Model R22 Serial No 1918M Hobbs 100.0 ACTT 2300.7 ACTSO 100.0	Reg No N178EP Date 11/20/2022 EngTT 2300.7 EngTSC 100.0	Make/Model: R22 Serial No: 1918M Hobbs: 199.73 ACTT: 2400.43 ACTSO: 2400.43	Reg. No.: N178EP Date: 02/21/2023 W.O.: 2421 ENGTT: 2400.43 ENGTSO: 2400.43
Description of Work Performed			
- Complied with 100 Hour inspection ref RHC R22 MM section 2.410 checklist as revised. Complied with applicable engine inspection. See engine logbook for details. Reviewed aircraft records and airworthiness directives. Applicable AD's CW through bi-weekly issue 2022-24. - Verified sheave alignment ref RHC R22 MM section 7.230. Results: L/H: .060 R/H: .043 - Tail rotor driveshaft run out results: Aft: .002 .002 .005 .007 Fwd - CW clutch shaft angle inspection re RHC R22 MM section 7.240 Result: 3.2 - Complied with main rotor blade tip maintenance ref RHC R22 MM section 26-60 - Lubed A181-4 lower bearing ref RHC R22 MM Section 22-41 - Complied with run up check, leak check, and all operational checks. Results good. All work performed IAW RHC R22 maintenance manual. Lycoming O-320 Ops Manual. - I certify this aircraft has been inspected IAW a 100 hour inspection and was determined to be in airworthy condition.		- Complied with 100hr inspection Ref RHC R22 MM Sec 2.410 checklist as revised. - TRDSRO results: aft .002, .003, .005, .007 fwd - Complied with clutch shaft angle Ref RHC R22 MM Sec 7.240. 4.7 - Adjusted sheave alignment Ref RHC R22 MM Sec. 7.230 (L/H: .034 R/H: .017) - Adjusted drive belts Ref RHC R22 MM Sec 7.282 - Performed run up check and leak check. Ops check good. All work performed Ref RHC R22 MM - I certify this aircraft has been inspected IAW a 100 hour inspection and was determined to be in airworthy condition.	
 Travis Dillard A/P/A #3804470		 Hunter Davidson A/P# 4475113	

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/Model:R22
Serial No:1918M
Hobbs:0.0
ACTT:2200.7
ACTSO: 0.0

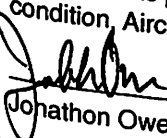
Reg No:N178EP
Date:8-18-2022
WO#:002211
EngTT: 2200.7
EngTSO:0.0



Description of Work Performed

Performed 2200 hour overhaul/ Annual inspection IAW RHC R22 MM section 2.700, Lycoming Ops Manual, and FAR 43 App D. Replaced components listed in RHC R22 MM section 2.710 due overhaul requirements with new or overhauled components (see life limited parts or overhaul requirements section of this logbook for details). Installed overhauled engine PN: 0-320-B2C SN: L-16878-39A, see Triad Aviation, Inc. WO# 27187 dated 7-26-2022 for details. Landing gear cross tubes, struts and elbows, A121-x push/pull tubes, collective jackshaft, and transmission gearbox fittings Ref. section 2.710 of the RHC R22 MM. NDT inspection performed by S&S Testing under WO# 5223 dated 6/8/2022. Installed new cyclic stick PN: A320-1 Ref. R22 IPC figure 67-1. For additional parts and hardware installed, see RHC sales order 355714, 346689, 346687, and 352742. Aircraft weight and balance complied with, updated weight and balance sheet and equipment list placed in aircraft POH. AD's applicable to this aircraft, engine, and appliances complied with through biweekly issue 2022-17. Applicable SB's complied with through RHC R22 SB 119. Installed New collective activated hobbs under pilots seat, Ref. R22 KI-238. Ground run checks complied with, results ok. Details for additional maintenance performed and parts replacement are on file at Sevier County Choppers under above work order.

I certify this aircraft has been inspected IAW a 100 hour/ Annual/ 2200 hour overhaul inspection requirements per RHC R22 MM, Lycoming Ops Manual, and FAR 43 App D and was found to be in airworthy condition. Aircraft is approved for return to service.


Jonathon Owens AP 4004724 IA

MAINTENANCE RECORD

F.A.R. 43.9

[illegible]

DATE OF COMPLETION	AIRCRAFT TIME IN SERVICE	DESCRIPTION OF WORK PERFORMED OR APPROVED DATA USED	AGENCY & CERTIFICATE NO. WORK PERFORMED/RETURNED TO SERVICE
3/16/23		Removed receiver and installed new one P/N 064-1053-30	3595740 A&P
		S/N U2094, REF Bendix/King	
		KY 196A/197A	
		Manual # 006-00695-0003	
		Para. 2.3.5	




Lance Workman AP 3892417

[illegible]

Reg No: N178EP
Date: 5/6/2024
Work Order: 002782



- Replaced oil sender with serviceable sender. Ref. RHC R22 IPC Fig. 79-1
- Installed 2x STD-425 washer inside oil pressure housing. Ref. Lycoming O-320 IPC Fig. 4
- Replaced oil pressure gauge P/N 6246-00647 with serviceable. Ref. RHC R22 MM Chp. 95 & Fig. 95-47
- All work above was found to be airworthy and this aircraft is released back to service

Paul Thorsen AP 3295491

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/Model: R22
 Serial No:1918M
 Hobbs: 0.75
 ACTT:2201.45
 ACTSO: 0.75

Reg No:N178EP
 Date:8-19-2022
 WO#:002211
 EngTT 2201.45
 EngTSO:0.75



Description of Work Performed

- Performed main rotor track and balance IAW RHC R22 MM section 10.230. Balanced to .09 ips @ 1:20 in a hover and tracked to within .20 inch at all airspeeds
- Performed tail rotor balance IAW RHC R22 MM section 10.240. Balanced to .08 ips @ 7:40. Balanced fanwheel to .10 ips @ 8:43 IAW RHC R22 MM section 6.240.
- Performed auto rotational adjustment IAW section 10.250
- Safety wired main rotor pitch links and drilled coning and teeter hinge bolts
- Drained and flushed gearboxes IAW RHC R22 MM section 1.110 due first 4 hours after installation
- Aircraft is approved for return to service. Work done by Sevier County Choppers under above work order.

Jonathan Owens

Jonathan Owens AP 4004724 IA

RADIO & ELECTRONIC CHECKS

TOTAL TIME	EQUIPMENT CHECKED	TYPE OF CHECK	ERROR OR RESULTS	NEXT CHECK DUE	CHECKED BY: SIGNATURE — CERT. NO.
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TRANSPONDER CERTIFICATION

Sevier County Choppers
1255 Airport Road, Sevierville, Tennessee 37862
FAA CRS #8DIR912C

Form XPC003

Rev: Original
Date: 03-01-2019

Work Order No. 00125RS Acft.Reg.No. N178EP
Aircraft Type P22 Txpond Position FWD Panel
Txpond P/N# KT76A S/N# 85282

I certify the ATC Transponder tests and inspections required by FAR
91.413 were performed this date and found to comply with Part 43, Appendix
F. Details on file at this repair station.

Date 8-19-22
Signed [Signature]

TRANSPONDER CERTIFICATION

Sevier County Choppers
1255 Airport Road, Sevierville, Tennessee 37862
FAA CRS #8DIR912C

Form XPC003

Rev: Original
Date: 03-01-2019

Work Order No. 00240RS Acft.Reg.No. N178EP
Aircraft Type P22 Txpond Position Panel
Txpond P/N# KT76 S/N# 85282

I certify the ATC Transponder tests and inspections required by FAR
91.413 were performed this date and found to comply with Part 43, Appendix
F. Details on file at this repair station.

Date 8-22-24
Signed [Signature]

LIFE LIMITED PARTS OR OVERHAUL REQUIREMENTS

[illegible]

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	A006-6	4096	8/18/2022 2200.7	NEW 0	2200 TBO		Jonathon Owens AP 4004724 IA
MR Blade	A016-6	6478	08/18/2022 2200.7	NEW 0	2200 TBO 12 Years		Jonathon Owens AP 4004724 IA
MR Blade	A016-6	6477	8/18/2022 2200.7	NEW 0	2200 TBO 12 Years		Jonathon Owens AP 4004724 IA
MR Swashplate	A017-2	6832	8/18/2022 2200.7	NEW 0	2200 TBO		Jonathon Owens AP 4004724 IA
Welded Frame	A020-2	4699	8/18/2022 2200.7	1566.7	4400 Life		Jonathon Owens AP 4004724 IA
TR Gearbox	B021-1	3911	8/18/2022 2200.7	NEW 0	2200 TBO		Jonathon Owens AP 4004724 IA
Tailcone Assy	A023-1	624	8/18/2022 2200.7	2200.7	4400 Life		Jonathon Owens AP 4004724 IA
TR Blade	A029-2	11086	8/18/2022 2200.7	NEW 0	2200 TBO 12 Years	7-19-2023 2502.2	Jonathon Owens AP 4004724 IA
TR Blade	A029-2	11084	8/18/2022 2200.7	NEW 0	2200 TBO 12 Years	7-19-2023 2502.2	Jonathon Owens AP 4004724 IA
TR Hub	A062-2	7653	8/18/2022 2200.7	NEW 0	6000 TBO		Jonathon Owens AP 4004724 IA
TR Pitch Control	A031-1	9811	8/18/2022 2200.7	NEW 0	2200 TBO		Jonathon Owens AP 4004724 IA
Horiz Stab	A044-1	6990	8/18/2022 2200.7	1321.2	2200 TBO		Jonathon Owens AP 4004724 IA
Actuator	A051-1	7224	8/18/2022 2200.7	NEW 0	2200 TBO		Jonathon Owens AP 4004724 IA
MR Gearset	A146-1	R1289	8/18/2022 2200.7	NEW 0	2200 TBO		Jonathon Owens AP 4004724 IA
MR Hub	B370-1	1076	8/18/2022 2200.7	New 0	4400 Life		Jonathon Owens AP 4004724 IA
MR Spindle	A158-3	2221	8/18/2022 2200.7	NEW 0	2415 Life		Jonathon Owens AP 4004724 IA
MR Spindle	A158-3	2220	8/18/2022 2200.7	NEW 0	2415 Life		Jonathon Owens AP 4004724 IA
Clutch Shaft	A166-1	12079	8/18/2022 2200.7	NEW 0	2200 TBO		Jonathon Owens AP 4004724 IA

AIRCRAFT DESCRIPTION

MANUFACTURER Robinson MODEL R22 DATE OF MFG. _____

SERIAL NUMBER 1918M REGISTRATION NUMBER N128EP

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

LOGBOOK #2

AIRCRAFT LOG
AF5-1

R22 MARINER
S/N: 1918M

INSPECTION RECORD F.A.R. 43.11-91.409

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Rocket City Helicopters LLC
236 Lawler Dr. #4
Brownsboro, AL 35741



ROCKETCITY
HELICOPTERS

N178EP SN:1918M ACFT TT: 2000.3

HOBBS: 2000.3

11/05/2021

Completed 100/Annual inspections IAW RHC MM Section 2 100hr/Annual Checklist in compliance with 14CFR 43 App D. All engine inspections are recorded in the Engine log book. Inspected all airframe components IAW inspection criteria and no defects noted. Engine height 3.51 in, sheave alignment, Clutch Shaft Angle 3.9 degrees, T/R D/S runout all within 0.0049. Drive belt tension adjusted to engage the belts within 5 seconds per the maintenance manual and POH., Cleaned gascolator, fuel sumps, added Man Gearbox oil to serviceable level. Cleaned leading edge of main rotor blades, painted leading edge, Drained and serviced tail rotor gearbox oil level. Complied with All ADs and SBs are in compliance IAW 07/21 AD/SB list. I certify that this airframe has been inspected IAW 100hr/Annual requirements and is found to be airworthy with respect to the work performed.

Timothy P. Knueven
FAA A&P IA 2727695

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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Rocket City Helicopters LLC
236 Lawler Dr. #4
Brownsboro, AL 35741



ROCKETCITY
HELICOPTERS

N178EP SN:1918M ACFT TT: 2100.3

HOBBS: 2100.3

01/25/2021

Completed 100/Annual inspections IAW RHC MM Section 2 100hr/Annual Checklist in compliance with 14CFR 43 App D. All engine inspections are recorded in the Engine log book. Inspected all airframe components IAW inspection criteria and no defects noted. Engine height 3.51 in, sheave alignment, Clutch Shaft Angle 4.1 degrees, T/R D/S runout all within 0.0049. Drive belt tension adjusted to engage the belts within 5 seconds per the maintenance manual and POH., Cleaned gascolator, fuel sumps, added Man Gearbox oil to serviceable level. Cleaned leading edge of main rotor blades, painted leading edge, Drained and serviced tail rotor gearbox oil level. Complied with All ADs and SBs are in compliance IAW 07/21 AD list.

I certify that this airframe has been inspected IAW 100hr/Annual requirements and is found to be airworthy with respect to the work performed.

Timothy P. Knueven
FAA A&P IA 2727695

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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Rocket City Helicopters LLC
236 Lawler Dr. #4
Brownsboro, AL 35741



N178EP SN:1918M ACFT TT: 1801.0

HOBBS: 1801.0

07/07/2021

Completed 100/Annual inspections IAW RHC MM Section 2 100hr/Annual Checklist in compliance with 14CFR 43 App D. All engine inspections are recorded in the Engine log book. Replaced T/R PC Links with new RHC PN B345-3, balanced T/R 0.02 IPS. Inspected all airframe components IAW inspection criteria and no defects noted. Engine height 3.49 in, sheave alignment 0.18/0.36. Clutch Shaft Angle 3.9 degrees, T/R D/S runout all within 0.0049. Drive belt tension adjusted to engage the belts within 5 seconds per the maintenance manual and POH. Cleaned gascolator, fuel sumps, added Man Gearbox oil to serviceable level. Cleaned leading edge of main rotor blades, Drained and serviced tail rotor gearbox oil level. Complied with All ADs and SBs are in compliance IAW 07/21 AD/SB list.

I certify that this airframe has been inspected IAW 100hr/Annual requirements and is found to be airworthy with respect to the work performed.

Timothy P. Knueven
FAA A&P IA 2727695

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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Rocket City Helicopters LLC
236 Lawler Dr #4
Brownsboro, AL 35741



N178EP SN:1918M ACFT TT: 1901.7

HOBBS: 1901.7

09/01/2021

Completed 100/Annual inspections IAW RHC MM Section 2 100hr/Annual Checklist in compliance with 14CFR 43 App D. All engine inspections are recorded in the Engine log book. Inspected all airframe components IAW inspection criteria and no defects noted. Engine height 3.51 in, sheave alignment, Clutch Shaft Angle 3.9 degrees, T/R D/S runout all within 0.0049. Drive belt tension adjusted to engage the belts within 5 seconds per the maintenance manual and POH. Cleaned gascolator, fuel sumps, added Man Gearbox oil to serviceable level. Cleaned leading edge of main rotor blades, painted leading edge. Drained and serviced tail rotor gearbox oil level. Complied with All ADs and SBs are in compliance IAW 07/21 AD/SB list.

I certify that this airframe has been inspected IAW 100hr/Annual requirements and is found to be airworthy with respect to the work performed.

Timothy P. Knueven
FAA A&P IA 2727695

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	DATE
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Rocket City Helicopters LLC
236 Lawler Dr. #4
Brownsboro, AL 35741

N178EP SN:1918M ACFT TT: 1603.3
1603.3

HOBBS: 1603.3
1603.3



ROCKET CITY
HELICOPTERS

04/27/21
03/12/2021

Completed 100/Annual inspections IAW RHC MM Section 2 100hr/Annual Checklist in compliance with 14CFR 43 App D. All engine inspections are recorded in the Engine log book.
Inspected all airframe components IAW inspection criteria and no defects noted. Engine height 3.47 in, sheave alignment 0.19/0.35, Clutch Shaft Angle 3.8 degrees, T/R D/S runout all within 0.005. Drive belt tension adjusted to engage the belts within 5 seconds per the maintenance manual and POH., Cleaned gascolator, fuel sumps, added tail rotor Gearbox oil to serviceable level. Cleaned and touched up leading edge paint on MR Blades, Measured rear skid cross tube for bend allowance. Complied with All ADs and SBs are in compliance IAW 12/2020 AD/SB list.
I certify that this airframe has been inspected IAW 100hr/Annual requirements and is found to be airworthy with respect to the work performed.

Timothy P. Knueven
FAA A&P IA 2727695

Date + Hobbs time entered in ERROR

INSPECTION RECORD F.A.R. 43.11-91.409

Rocket City Helicopters LLC
236 Lawler Dr. #4
Brownsboro, AL 35741



ROCKET CITY
HELICOPTERS

N178EP SN:1918M ACFT TT: 1702.1

HOBBS: 1702.1

06/17/2021

Completed 100/Annual inspections IAW RHC MM Section 2 100hr/Annual Checklist in compliance with 14CFR 43 App D. All engine inspections are recorded in the Engine log book.
Inspected all airframe components IAW inspection criteria and no defects noted. Engine height 3.49 in, sheave alignment 0.18/0.36, Clutch Shaft Angle 3.9 degrees, T/R D/S runout all within 0.0049. Drive belt tension adjusted to engage the belts within 5 seconds per the maintenance manual and POH., Cleaned gascolator, fuel sumps, added Man Gearbox oil to serviceable level. Cleaned and touched up leading edge paint on MR Blades, Measured rear skid cross tube for bend allowance. Drained and serviced tail rotor gearbox oil level. Complied with All ADs and SBs are in compliance IAW 12/2020 AD/SB list.
I certify that this airframe has been inspected IAW 100hr/Annual requirements and is found to be airworthy with respect to the work performed.

Timothy P. Knueven
FAA A&P IA 2727695

INSPECTION RECORD F.A.R. 43.11-91.409

INSPECTION RECORD F.A.R. 43.11-91.409

AIRCRAFT TIME

KIND OF INSPECTION-STATUS & DISCREPANCY LIST

DATE

AIRCRAFT TIME
IN SERVICE

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

MAKE: Robinson Helicopter
MODEL: R22 Mariner
S/N: 1918
REG. NO: N178EP
WORK ORDER: 3316



Helicopter Services, Inc.

Repair Station No. HLXR728E
19931 Steubner Airline Rd.
Spring, TX 77379
Phone: 281-370-4354

DATE: 8/21/2019
A/C TSN: 971.2
HOBBS: 971.2

Airframe Entries

- 1 Performed Robinson R22 100 hour/Annual inspection.
- 3 Lubricated A184 bearings per R22 MM para 22-41.
- 4 Cleaned gearbox chip detectors per para 22-11 & 22-21.
- 6 Performed Concorde battery cap check. passed at 87.7%
- 10 Performed Robinson R22 Service Bulletin SB-112 Actuator lower bearing A185 brackets.
- 11 Performed Robinson R22 Service Bulletin SB-113A Belt Tension Actuator. IAW Kit, KI-242, instructions.
- 12 Performed Robinson R22 Service Bulletin SB-114 D602-3 Time delay assembly. Verify lot number of installed time delay. Lot number 36 installed.
- 13 Robinson R22 Service Bulletin SB-115 Air oil separator hose spring is not applicable at this time.
- 15 Replaced engine cooling hose P/N A785-6 with new one IAW Robinson AMM.
- 16 Replaced B771-1 air filter due to it being dirty.

The aircraft and/or component(s) on N178EP was inspected and/or repaired in accordance with current FARs of the Federal Aviation Administration and was found Airworthy for return to service.
Pertinent details of the repair are on file at this repair station CRS# HLXR728E under work order No. 3316, Dated 8/21/2019.

SIGNED:

Michael Crossland
Certified Repair Station No. HLXR728E

Work Order: 3316

Printed by EBis 3 (datcomedia.com)

3 Sep 2020

1105.1

Performed 100hr/Annual inspection per 14 CFR Part 43 App D, with reference to Chapter 2, 2.400 of the RHC Maintenance Manual.
Removed & cleaned gascolator, Lubricated A184 upper actuator Brgs.
Completed AD 03-04-04. Drained Eng. oil, cutopen filter & inspected for Metal. No Discrepancies Noted Performed Comp ✓ #1 72 #2 73 #3 72 #4 74. Removed & Replaced 8 EA Spark plugs with new P/N: UREM 38E. Removed & Replaced 4 EA intake gaskets with new P/N: 71973. Completed Cg ✓ on Concorde battery - Passed 87%.
Inspected Chip Detectors, no metal found. All AD's complied with through this date ~~7 Sep 2020~~ 3 Sep 2020. Ground run & leak check completed with no Discrepancies. I certify N178EP S/N 1918 has been inspected IAW a 100hr/Annual inspection and was determined to be in airworthy condition with reference to the work performed above.

AP7649306IA

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
MAY 2 '17		This agency certifies that this rotorcraft has been inspected in accordance with R22 Maintenance Annual inspection and current Federal Aviation Administration Regulations; AD's through Bi-weekly issue <u>2017-09</u>, have been complied with and was determined to be in an Airworthy condition. Details are on file at Robinson Helicopter Co. 2901 Airport Dr., Torrance Ca, 90505 under Repair Order <u>131009</u>. FAA Repair Station YV3R012M. Authorized Signature <u>[Signature]</u>
<u>Hourmeter</u>	<u>886.0</u>	
<u>Engine</u>	<u>886.0</u>	
<u>Total Time</u>	<u>886.0</u>	
<u>TSMOH</u>	<u>246.5</u>	
6 AUG 18		Performed Annual inspection by referencing RAC R22 MM Section 2.400 and Pg. 1.10. Verified life limited components PIN and SN. A/C on FAA-GOV ON 7-30-18. Checked cascade, throttle alignment and engine height. Inspected TR and TR drive train along with MR system no defects noted. Installer serviceable V3-1 micro switch on collective / low rate horn system. AD tested ok.
4665:	889.7	
TSMOH:	250.2	
<u>B. Kleer</u>		Run-up and balanced Fanwheel and T.R blades with microlite II to less than .1 IPS. look checked ok. I certify that this Airframe has been inspected IAW an Annual inspection and was determined to be in an airworthy condition. <u>[Signature]</u>
AP 59344USOTA		
363-885-2796		
ROTORWINGSGMAIL.COM		

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
		N178EP R-22 S/N 1918M HOBBS 889.1 ACTT 889.1 March 23, 2018 Installed Main Rotor Blades; Installed T/R Blades and Track; Installed Tail Boom Assy; Installed Landing Gear Skids; Installed Fan Scroll Lower Cover; Installed Aircraft Battery; I Certify That The Work Performed Above To This Aircraft Or Appliance Identify Above Was Inspected and/or Repaired IAW Current Regulations Of The Federal Aviation Regulations and Its Approved To Return To Service; All Work Performed IAW M.M. END	
		KAP 2823176 	
6 Aug 18			
Hobbs:	889.9	Tracked and balanced the MR system by referencing DSS Microcarb II	R22 application notes.
863-888-2796		Hor track: even Hor Lt .028 in links 85 kt VT: .1 IPS.	IPS 85 kt track! Kileen APS92344450

MAINTENANCE RECORD

F.A.R. 43.9

[illegible]

RADIO & ELECTRONIC CHECKS

RADIO & ELECTRONIC CHECKS						
DATE	TOTAL TIME	EQUIPMENT CHECKED	TYPE OF CHECK	ERROR OR RESULTS	NEXT CHECK DUE	CHECKED BY: SIGNATURE — CERT. NO.
			Transponder Certification			
			Merlin's Avionics Service Tel: (615) 305-1186 307 Roberta Drive Hendersonville, Tennessee 37075 FAA CRS #Z6MR586Y MAS Form #3			
			Work Order No. <u>1574</u> Acft.Reg.No. <u>N178EP</u>			
			Aircraft Type <u>R22</u>	Txpond Position # <u>1</u>		
			Txpond P/N# <u>KT76A</u>	S/N# <u>85282</u>		
			Check Box if Mode S () <u>HOBBS</u>			
			I certify the ATC Transponder tests and inspections required by FAR 91.413 were performed this date and found to comply with Part 43, Appendix F. Details of this inspection are on file at this repair station.			
			Date <u>11-20-20</u>			
			Signed <u>Merlin Davis</u>	ACFT SN# <u>1918M</u>		

RADIO & ELECTRONIC CHECKS

DATE	TOTAL TIME	EQUIPMENT CHECKED	TYPE OF CHECK	ERROR OR RESULTS	NEXT CHECK DUE	CHECKED BY: SIGNATURE — CERT. NO.
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THE FOLLOWING TRANSPONDER HAS BEEN TESTED PER FAR 91.413 AND HAS BEEN
 FOUND TO COMPLY WITH FAR PART 43, APPENDIX F: MFG: KING MODEL: KT-76A
 S/N: 85282 AUTHORIZED SIGNATURE [Signature] DATE 09SEP2016
 ROBINSON HELICOPTER COMPANY FAA REPAIR STATION YV3R012M

~~THIS~~ ATC TRANSPONDER WAS TESTED
 AND INSPECTED IAW FAR 43 APPD.F
 AND FOUND TO COMPLY WITH FAR
 91.413 MODEL KT76A S# 85282
 W. O. # 8687 DATE 10-3-2018
 INSPECTOR [Signature]
 MARTSELL AVIONICS, INC.
 CRS H9TR058J TYLER TR

ALTIMETER & STATIC SYSTEM CHECKS

[illegible]

SEE LOGBOOK #1 FOR PREVIOUS COMPLIANCE
MAJOR ALTERATIONS

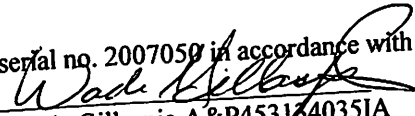
DATE

DESCRIPTION OF ALTERATION

30 Dec 2019

HUNTSVILLE AVIATION

Installed uAvionics tailBeacon P/N UAV-1002183-001 serial no. 2007050 in accordance with uAvionics
installation Manual. See FAA form 337 this date.


Wade Gillaspie A&P4531340351A

AIRCRAFT DESCRIPTION

MANUFACTURER Robinson Helicopter Co. MODEL R22 Mariner

DATE OF MFG. 23 August 1985

SERIAL NUMBER 1918M REGISTRATION NUMBER N178EP

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

LIFE LIMITED PARTS OR OVERHAUL REQUIREMENTS			
SERIAL	INSTALLATION	TIME ON BASE	

[illegible]

SEE LOGBOOK #1 FOR PREVIOUS COMPLIANCE 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 GEAR BOX	A006-1	2096	11/9/2016	INSPECTED	2200 TBO		
			879.5				
MR BLADE	A016-6	0229	11/9/2016	REPAIRED	2200 HOURS OR 12 YEARS		
			879.5				
MR BLADE	A016-6	0232	11/9/2016	REPAIRED	2200 HOURS OR 12 YEARS		
			879.5				
MR SWASHPLATE	A017-2	5732	11/9/2016	0 TSOH	2200 TBO		
			879.5				
UPPER FRAME	A020-2	4699	11/9/2016	OVERHAULED	4400 LIFE		
			879.5				
TR GEARBOX	B021-1	0507	11/9/2016	0 TSOH	2200 TBO		
			879.5				
TAILCONE ASSY	A023-1	0624	11/9/2016	INSPECTED	4400 LIFE		
			879.5				
TR BLADE	A029-2	8204	11/9/2016	NEW	2200 HOURS OR 12 YEARS		
			879.5				
TR BLADE	A029-2	8205	11/9/2016	NEW	2200 HOURS OR 12 YEARS		
			879.5				
TR HUB	A062-2	6404	11/9/2016	NEW	6000 HOURS		
			879.5				
TR PITCH CONTROL	A031-1	8462	11/9/2016	NEW	2200 TBO		
HORIZONTAL STABILIZER	A044-1	6990	11/9/2016				
			879.5	NEW	2200 TBO		
WELDED FRAME	A046-2	1618	11/9/2016				
			879.5	OVERHAULED	5110 LIFE		
ACTUATOR	A051-1	6388	11/9/2016				
			879.5	0 TSOH	2200 TBO		
PINION GEAR	A146-1	7890	11/9/2016				
			879.5	INSPECTED	2200 LIFE		
MR HUB	A154-1	2209	11/9/2016				
			879.5	OVERHAULED	4400 LIFE		
MR SPINDLE	A158-1	12828	11/9/2016				
			879.5	OVERHAULED	2415 LIFE		
MR SPINDLE	A158-1	12829	11/9/2016				
			879.5	OVERHAULED	2415 LIFE		

222 MARINE
BIN 1918M

AIRCRAFT LOG
AF5-1

INSPECTION RECORD

F.A.R. 43.11 - 91.217

DATE	AIRCRAFT TIME IN SERVICE	KIND OF INSPECTION - STATUS & DISCREPANCY LIST SIGNATURE — CERT. NO. OF PERSON APPROVING OR DISSAPPROVING AIRCRAFT FOR SERVICE
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N178EP R-22

S/N 1918M

HOBBS 857.6 ACTT 857.6

April 9, 2013

Preformed Annual Inspection As Per R.H.C. R-22 M.M. Checklist Section 2.410; Replace Tail Rotor Gear Box Chip Detector Gasket and Service Unit; Remove and Service Battery; Clean Battery Electrical Terminals; Replace Cyclic Grip P/N A106-2; Replace all Telatemp; Transponder and Pitot Static 24mths Inspection Due On 4/14; Lube Bearing A181-4 and Bearing A184; AD 88-26-01R2 Spindel Insp Due on 1332.8Hrs; I Certify That The Work Preformed Above To This Aircraft Or Appliance Identify Above Was Inspected and/or Repaired IAW Current Regulations Of The Federal Aviation Regulations and Its Approved To Return To Service; All Work Preformed IAW M.M. END

AJP 282317

INSPECTION RECORD

F.A.R. 43.11 - 91.217

DATE	AIRCRAFT TIME IN SERVICE	KIND OF INSPECTION - STATUS & DISCREPANCY LIST SIGNATURE — CERT. NO. OF PERSON APPROVING OR DISSAPPROVING AIRCRAFT FOR SERVICE
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N178EP R-22

S/N 1918M

HOBBS 866.5 ACTT 866.5

June 30, 2014

Preformed Annual Inspection As Per R.H.C. R-22 M.M. Checklist Section 2.410; Replace Tail Rotor Gear Box Chip Detector Gasket and Service Unit; Remove and Service Battery; Clean Battery Electrical Terminals; Replace Battery Cable Grommet P/N AN931A6-10; Adjust engine Sheave Alignments; Replace Both Fuel Tanks Gaskets P/N A689-7; Replace all Telatemp; Transponder and Pitot Static 24mths Inspection Due On 6/16; AD 88-26-01R2 Spindel Insp Due on 1332.8Hrs; Complied With SB107 Fuel Cap Decal by Installing Decal P/N D682-44; Complied with SB108 Rotor RPM Sender Magnets By Installing Adhesive Sealant P/N B270-10 I Certify That The Work Preformed Above To This Aircraft Or Appliance Identify Above Was Inspected and/or Repaired IAW Current Regulations Of The Federal Aviation Regulations and Its Approved To Return To Service; All Work Preformed IAW M.M. END

AJP 282317

INSPECTION RECORD

F.A.R. 43.11 - 91.217

DATE	AIRCRAFT TIME IN SERVICE	KIND OF INSPECTION - STATUS & DISCREPANCY LIST SIGNATURE - CERT. NO. OF PERSON APPROVING OR DISSAPPROVING AIRCRAFT FOR SERVICE
		S/N 1918M
		HOBBS 844.7 ACTT 844.7
		April 27, 2012
		Preformed Annual Inspection As Per R.H.C. R-22 M.M. Checklist
		Section 2.410; Replace Tail Rotor Gear Box Chip Detector Gasket
		and Service Unit; Remove and Service Battery; Clean Battery
		Electrical Terminals; Helicopter Registration Due On Dec 31,
		2012; Transponder and Pitot Static 24mths Inspection Due On
		4/14; Lube Bearing A181-4 and Bearing A184; AD 2010-24-03
		N/A at This Time Next Due 2200Hrs; AD 88-26-01R2 Spindel
		Insp Due on 1332.8Hrs; Preformed S.B 98 by Installing New
		Spring Pin P/N MS16562-33 on Collective; Preformed S.B.105
		Fuel Shut Off Valve Replacement Installing New P/N A670-1;
		Preformed S.B. 106 by Installing Improve Switch D049-4; All
		Work Preformed IAW M.M. END <i>41 Day 583-75-9896</i>
		<i>W. J. [Signature]</i>

INSPECTION RECORD

F.A.R. 43.11 - 91.217

[illegible]

INSPECTION RECORD

F.A.R. 43.11 - 91.217

DATE	AIRCRAFT TIME IN SERVICE	KIND OF INSPECTION - STATUS & DISCREPANCY LIST SIGNATURE — CERT. NO. OF PERSON APPROVING OR DISSAPPROVING AIRCRAFT FOR SERVICE
		SB93 Complied With By Removing Stainless Steel Tip From Antenna; SB94 Complied With By Installing New Blades P/N A016-6; SB95 N/A as per Bearing S/N; SB96 Complied With by Installing New Blades; SB97 Pedal Support N/A at This Time Next Due 2200Hrs; SB99 Complied With By Installing Gascolator Kit 193-4; SB100 CO2 Detector N/A No Cabin Heater Installed; SB101 Cabin Door Hinge Pins, Found PCW; SB102 Battery Relay Bypass, Found PCW; SB103 Complied With By Installing New Blades; SB104 Preformed Fuse Holder Inspection And Found OK; All Work Preformed IAW M.M. END
		<i>W. J. Quinn</i> 25800657A



02-22-2010

N178EP

WO-AV10-013

Performed pitot static system test in accordance with FAR 43 appendix E a to c, Altimeter p/n 5934P-3 s/n 397230. performed transponder test in accordance with FAR 43 appendix F, Transponder KT76A, s/n 85282. Both test pass. This comply with the requirements of FAR 91.411 and 91.413.

Elvin M. Ortiz
FAACRS OZ9R983X.

INSPECTION RECORD F.A.R. 43.11 - 91.217

DATE	AIRCRAFT TIME IN SERVICE	KIND OF INSPECTION - STATUS & DISCREPANCY LIST SIGNATURE — CERT. NO. OF PERSON APPROVING OR DISSAPPROVING AIRCRAFT FOR SERVICE
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HELI-TRONICS INC. South Ramp, Lot 3-A Isla Grande Airport San Juan, PR 00907 V1TR062X
LOG ID# 371 18-January-2008 WO# 389
N178EP S/N 1918M ROBINSON Mariener R22

Pg 1 / 2

R-22 Mariner S/N:1918 N178EP T.T.:782.3

Airframe

Complied with 100 Hr Annual Inspection using manufacturers checklist. Fuel screen removed, cleaned, inspected, found normal and re-installed. Battery removed, cleaned, serviced charged and re-installed. Main transmission chip plug removed, cleaned, inspected, operational checked and re-installed. Tail Rotor Blades cleaned, inspected, preped tip area Leading Edge and painted. Removed and replaced Outer Cover Plate on M/R Swashplate due to plate rubbing on safety wire on hold down screws on inner ring. removed p/n:8419-1 and installed same, torqued and safetied.

Performed Static Pressure and Inspection IAW FAR 43 Appendix E, Para (a). Performed ATC-Transponder and Automatic Pressure Altitude Reporting System Integration Test and Inspection IAW FAR 43 appendix F, Para (c).

Rotorcraft ground run for operational and leak check. Tail Rotor Assembly dynamically balanced; M/R Assembly dynamically balanced on ground at 100% Rotor RPM. Flight check made, M/R Assembly tracked and balanced Flight characteristics normal. Rotorcraft returned to service.

I certified that this Aircraft has been inspected and/or repaired in accordance with current Federal Aviation Agency Regulations and is hereby approved for return to service.

Inspector / Authorize Signature



VITROG2X
Certificate #

18 JAN 2008
Date

INSPECTION RECORD F.A.R. 43.11 - 91.217

DATE	AIRCRAFT TIME IN SERVICE	KIND OF INSPECTION - STATUS & DISCREPANCY LIST SIGNATURE — CERT. NO. OF PERSON APPROVING OR DISSAPPROVING AIRCRAFT FOR SERVICE
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Aircraft Type: Robinson	Aircraft S/N: 1918M N178EP	Aircraft Hobbs: 799.1 hrs	Hour Meter: 799.1 hrs
Aircraft Model: R-22	Inspection: Annual	Entry Airframe	Date: 2/18/09

C/W with 100 hrs/Annual Airframe Inspection as per Robinson Maintenance Manual Section 2.410. C/W Main gear boxes chip detector cleaning inspection as per Section 1.115 and tail rotor Gear box chip detector cleaning inspection and re-install.

I Certify that all Maintenance job done in Accordance with all Federal Aviation Administration Regulations and All Applicable Standards of Airworthiness. I Certify that this Aircraft was inspected and found to be in Airworthy condition to return to service details on file.

Orlando Colon
Orlando Colon

A&P 581067696 IA

Aircraft Registration: N178EP
Aircraft Model: R-22
Aircraft Serial Number: 1918

Date: 02/26/10
Aircraft Time: 0817.1
Hobb Time: 0817.1

1. I Certify that this Rotorcraft has been Inspected IAW Annual Inspection Robinson 2.400 Checklist and was to be in Airworthy Condition.

SIGNATURE *Orlando Colon* Orlando Colon A&P 581067696 IA
DATE: February 26, 2010 Isla Grande Airport San Juan, PR 00907.



02-22-2010

N178EP

WO-AV10-013

Performed pitot static system test in accordance with FAR 43 appendix E a to c, Altimeter p/n 5934P-3 s/n 397230. performed transponder test in accordance with FAR 43 appendix F, Transponder KT76A, s/n 85282. Both test pass. This comply with the requirements of FAR 91.411 and 91.413.

Elvin M. Ortiz

FAACRS OZ9R983X.

F.A.R. 43.11 - 91.217

DATE	AIRCRAFT TIME IN SERVICE	KIND OF INSPECTION - STATUS & DISCREPANCY LIST SIGNATURE — CERT. NO. OF PERSON APPROVING OR DISSAPPROVING AIRCRAFT FOR SERVICE
HELI-TRONICS INC. South Ramp, Lot 3-A Isla Grande Airport San Juan, PR 00907 V1TR062X LOG ID# 269 17-January-2007 WO# 285 N178EP S/N 1918M ROBINSON Mariener R22 Pg 1 / 1		
N178EP R22 S/N:1918M T.T.:745.7 Airframe Complied with 100 Hour/Annual Inspection using manufacturers checklist. Sheave Alignment established by removing 1(ea) 0.060" Shim from upper L.H. Engine Mount and installing 1(ea) 0.032" Shim and adjusting Lateral Clutch Rod Assembly, Engine Height and Clutch Motor Gap and Throttle correlation ok. L.H. Fuel Tank removed due to fuel stain at "T" Fitting behind Fuel Shut Off valve. Tank Fittings removed, cleaned, inspected, re-sealed, re-installed Fittings and Tank. Tail Rotor Blades cleaned, inspected, preped and painted white tip area and Leading Edge Area of next Inb'd black and next Inb'd white area on both Blades. Rotorcraft ground run for operational and leak check. Tail Rotor Assembly dynamically balanced to less than 0.2 IPS. Flight check made, flight characteristics and Engine parameters normal as reported by owner.		
I certified that this Aircraft has been inspected and/or repaired in accordance with current Federal Aviation Agency Regulations and is hereby approved for return to service.		
 Inspector / Authorize signature 4825 JN <u>V1TR062X</u> Certificate # <u>17 JAN 2007</u> Date <u>T.T. 745.7</u> 		

Pg 1 / 1

N178EP R22 S/N:1918M T.T.:745.7

Airframe

Complied with 100 Hour/Annual Inspection using manufacturers checklist. Sheave Alignment established by removing 1(ea) 0.060" Shim from upper L.H. Engine Mount and installing 1(ea) 0.032" Shim and adjusting Lateral Clutch Rod Assembly, Engine Height and Clutch Motor Gap and Throttle correlation ok. L.H. Fuel Tank removed due to fuel stain at "T" Fitting behind Fuel Shut Off Valve. Tank Fittings removed, cleaned, inspected, re-sealed, re-installed Fittings and Tank. Tail Rotor Blades cleaned, inspected, preped and painted white tip area and Leading Edge Area of next Inb'd black and next Inb'd white area on both Blades.

Rotorcraft ground run for operational and leak check. Tail Rotor Assembly dynamically balanced to less than 0.2 IPS. Flight check made, flight characteristics and Engine parameters normal as reported by owner.

I certified that this Aircraft has been inspected and/or repaired in accordance with current Federal Aviation Agency Regulations and is hereby approved for return to service.

Inspector / Authorize Signature

4825
JN

VITROG2X
Certificate #

17 JAN 2007 P.T. 745.7
Date



INSPECTION RECORD

F.A.R. 43.11 - 91.217

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

HELI-TRONICS INC. South Ramp, Lot 3-A Isla Grande Airport San Juan, PR 00907 V1TR062X
 LOG ID# 163 18-November-2005 WO# 179 AC TT 707.0
 N178EP S/N 1918M ROBINSON Mariener R22

Pg 1 / 1

N178EP R22M S/N:1918M T.T.:707.0

Airframe

Complied with 100 hour/Annual inspection using manufacturers checklist. Sheave alignment adjusted by clutch lateral centering rod. swashplate uniball friction adjusted by replacing A-209 spacer with one of larger thickness. Main Rotor Blades cleaned, preped and painted leading edge area from tip to approximately 90.0 inches inboard. Tail Rotor Blades cleaned, preped and painted tip area of leading edge. Interior cabin ceiling sound proofing re-secured by cleaning and re-gluing.

Rotorcraft ground run for operational and leak check. Tail Rotor assembly dynamically balanced. Flight check made, Main Rotor assembly tracked and balanced. Flight characteristics and engine parameters normal.

I certified that this Aircraft has been inspected and/or repaired in accordance with current Federal Aviation Agency Regulations and is hereby approved for return to service.

Inspector / Authorize Signature

VITR062X
Certificate #11/18/05
DateCaribbean
Aviation

P.O. BOX 41268
 SAN JUAN P.R. 00940
 TELEPHONE 1-787-723-3385
 FAX 1-561-725-7611
 FAA REP. STA. YCYR672X

Beechcraft
 Hawker

N178EP

HOBBS: 725.3

S/N:1918M

ENGINE LOG ENTRY

INSPECTION

MAINTENANCE RELEASE

The aircraft,airfme,aircraft engine, propeller or appliance identified above 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 repair are on file at this repair station under W/O #. At this time spark plugs removed and replaced new, spark plugs P# REM 38E. Torque to 420 inch lbs and torque stripped. END

Authorized signature:

Ricardo Vázquez



Work Order #06-0403-00

INSPECTION RECORD

F.A.R. 43.11 - 91.217

DATE	AIRCRAFT TIME IN SERVICE	KIND OF INSPECTION - STATUS & DISCREPANCY LIST SIGNATURE - CERT. NO. OF PERSON APPROVING OR DISSAPPROVING AIRCRAFT FOR SERVICE
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9-29-03 639.5

This agency certifies that this rotorcraft has been inspected I.A.W. an annual inspection and has been found to be in an airworthy condition. Details of this inspection are on file at Robinson Helicopter Co. 2901 Airport Dr., Torrance, CA 90505 under Work Order No. 34230.
FAA Repair Station YV3R012M.

Authorized Signature: 

INSPECTION RECORD

F.A.R. 43.11 - 91.217

DATE	AIRCRAFT TIME IN SERVICE	KIND OF INSPECTION - STATUS & DISCREPANCY LIST SIGNATURE - CERT. NO. OF PERSON APPROVING OR DISSAPPROVING AIRCRAFT FOR SERVICE
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HELI-TRONICS INC. South Ramp, Lot 3-A Isla Grande Airport San Juan, PR 00907 V1TR062X
LOG ID# 87 17-October-2004 WO# 115 AC TT 679.3
N178EP S/N 1918M ROBINSON Mariener R22

Pg 1/1

Airframe

N178EP R-22 Mariner S/N1918M TT:679.3

Complied with 100 hour Annual Inspection using manufacturers checklist. Battery removed, inspected and re-installed. Fuel screw removed, inspected, bowl found clean and re-installed. Sheave alignment established by installing 4(ea.) AN960-516L washers at forward flexplate. Intermediate flexplate shimming established by installing shims(.050") at tail rotor gear box attach point. No shims required at intermediate flexplate. Rotorcraft ground run for operational and leak check, found normal.

I certified that this Aircraft has been inspected and/or repaired in accordance with current Federal Aviation Agency Regulations and is hereby approved for return to service.

Inspector / Authorize Signature

VITROG 2X
Certificate #

18 OCT 2004
Date



HELI-TRONICS, INC.

INSPECTION RECORD

F.A.R. 43.11 - 91.217

DATE	AIRCRAFT TIME IN SERVICE	KIND OF INSPECTION - STATUS & DISCREPANCY LIST SIGNATURE - CERT. NO. OF PERSON APPROVING OR DISSAPPROVING AIRCRAFT FOR SERVICE
12 NOV 00	591.6	I CERTIFY THAT THIS ROTORCRAFT HAS BEEN INSPECTED I.A.W. 100HR / ANNUAL INSPECTION USING MFR CHECKLIST AND FOUND AIRWORTHY.
C/W SB-88A		USING MFR CHECKLIST AND FOUND AIRWORTHY.
by Installation		SHAVE ALIGNMENT ADJUSTED BY ENGINE MOUNT
OF K1-152		SHIMS AND LATERAL CLUTCH ROD, T/R PUSH-PULL
Yoke Replacement		CONTROL ROD IN TAIL BOOM REMOVED FOR SPOT PAINT.
RIT.		GRASED UPPER CLUTCH BEARING W/ MOBIL 28.
P/N A203-7		SHIP BATTERY REMOVED & SERVICED, ALL WORK F.A.W.
Yoke Installed		R-22 MAINT. MANUAL. Rotorcraft RELEASED FOR RETURN TO SERVICE.
ALTERNATOR BELT		GROUND RUN AND TEST FLIGHT DONE.
Tension ADJUSTED		GROUND RUN & FLIGHT CHECK MADE. OPERATIONAL & LEAK CK. OK.
	12 NOV 2000	T.T. 591.6 I.A. A.P. 582984825

INSPECTION RECORD

F.A.R. 43.11 - 91.217

DATE	AIRCRAFT TIME IN SERVICE	KIND OF INSPECTION - STATUS & DISCREPANCY LIST SIGNATURE - CERT. NO. OF PERSON APPROVING OR DISSAPPROVING AIRCRAFT FOR SERVICE
10-17-01	618.2	I CERTIFY THAT THIS ROTORCRAFT WAS INSPECTED I.A.W. 100 hr / ANNUAL INSPECTION AND FOUND AIRWORTHY.
		UPPER SHAVE ASSY. REMOVED AND SENT TO CAVARIN DUE TO YOKE P/N A195-1 BENT. YOKE REPLACED AND UPPER SHAVE ASSY. RETURNED SERVICEABLE AND RE-INSTALLED.
		INTERMEDIATE FLEX PLATE WAS REPLACED W/ A947-2 REV. G FLEXPLATE DUE TO 2 (ea) DELAMINATED SHIMS FOUND.
		ALL ENGINE RUBBER MOUNTS 8 (ea) REPLACED W/ NEW. ALSO REPLACED 4 (ea) ENG. MOUNT BOLTS W/ NEW. ENGINE HEIGHT & SHAVE ALIGNMENT ESTABLISHED AND INTERMEDIATE FLEX PLATE SHIMMING CHECKED.
		ROTORCRAFT BATTERY GILL G-25 REPLACED W/ NEW.
		MAIN ROTOR GEAR BOX CHIP PLUG REMOVED, CLEANED, TESTED & RE-INSTALLED.
		TOUCH-UP PAINT ON M/R & T/R BLADES. TAIL ROTOR AND ENGINE FAN DYNAMICALLY BALANCED USING CHADWICK EQUIPMENT.
		ROTORCRAFT WAS GROUND RUN FOR OPERATIONAL & LEAK CHECK.
		FLIGHT CHECK WAS MADE. OPERATIONAL AND BALANCE CHARACTERISTICS FOUND NORMAL. Rotorcraft RELEASED TO RETURN TO SERVICE.
		10-17-01 T.T. 618.2 hrs. I.A. A.P. 582984825



INSPECTION RECORD

F.A.R. 43.11 - 91.217

DATE	AIRCRAFT TIME IN SERVICE	KIND OF INSPECTION - STATUS & DISCREPANCY LIST SIGNATURE - CERT. NO. OF PERSON APPROVING OR DISSAPPROVING AIRCRAFT FOR SERVICE
8-28-97	472.7	Requires a Runup, leak check and Operational Flight test before normal operation.
		Ground run and leak check performed and found OK. Engine still 19700.
8/6/98		Flight test pending ---
6/5/98		Remove DC motor 1/N 5A2339-3 per installed of 1/N 1 (Remove DC motor 1/N 5A2334-3 and installed 1/N 5/N R 7049 as per manufacture instructions ground check found O.K. Francis M. Lindsey A.P. 583533466.

INSPECTION RECORD

F.A.R. 43.11 - 91.217

DATE	AIRCRAFT TIME IN SERVICE	KIND OF INSPECTION - STATUS & DISCREPANCY LIST SIGNATURE - CERT. NO. OF PERSON APPROVING OR DISSAPPROVING AIRCRAFT FOR SERVICE
08/26/98	524.3	I certify that this ROTORCRAFT was Inspected I.A.W. 100 hr. / Annual Inspection using Mfr. Check List and Found Airworthy. Upper Sheave Shaft was Removed and Fwd. Yoke was Removed and RE-Installed on Fwd. HOLES Making Shaft Assy. longer for Intermediate Flexplate Shimming. Also 0.040" Shim's Installed at T/R Gear Box Mount P&A to Aid Intermediate Flex Plate Shimming. Engine Height and Sheave Alignment Established by Engine Mount Shimming. All work done I.A.W. R-22 M/M. Retain T/R Push Pull Tube in Tail Boom Adjusted for Shim's at T/R Gear Box Mount. Rotor Craft was ground Run and Flight Check Made. Operational and Leak Check Satisfactory.
		<u>J.P. Chin</u> A.P./I.A. 582984825

INSPECTION RECORD

F.A.R. 43.11 - 91.217

DATE	AIRCRAFT TIME IN SERVICE	KIND OF INSPECTION - STATUS & DISCREPANCY LIST SIGNATURE - CERT. NO. OF PERSON APPROVING OR DISSAPPROVING AIRCRAFT FOR SERVICE
11-7-95	380.6	I certify that this ROTORCRAFT has been Inspected I.A.W. 100hr/ANNUAL Inspection Using Mfr. Check List And Found to be in Airworthy Condition. Rotorcraft was ground run and flight checked. Details on ^{Disc. List} on W.O. DATED 11-7-95 Hill Aviation. JBC In - A/P/I.A. 582984825
7-15-96	422.2	I certify that this ROTORCRAFT was Inspected I.A.W. 100hr/ANNUAL Inspection And Found Airworthy. Details on Hill Aviation Discrepancy List DATED 7-3-96. Rotorcraft was trucked; BALANCED M/R & T/R DUE TO PAINTING OF BLADES. GOV. UPGRADE KIT KI-67-3 & KI-100 Light Kit Installed. Test Flight Check Satisfactory JBC In - A/P, I.A. 582984825

INSPECTION RECORD

F.A.R. 43.11 - 91.217

DATE	AIRCRAFT TIME IN SERVICE	KIND OF INSPECTION - STATUS & DISCREPANCY LIST SIGNATURE - CERT. NO. OF PERSON APPROVING OR DISSAPPROVING AIRCRAFT FOR SERVICE
08-27-97	477.5	Removed M-R blades and complied with AD 88-26-01, Rev 2, polished marks out of spindles with 600 sandpaper and inspected with fluorescent penetrant, no cracks found. Rotated grips 360°, bearings smooth, reserved with Dexton oil and reinstalled with new bolts & nuts, torqued to .016 stretch and soaked with cotton pin and drilled hole per R-22 maint. manual. Also complied with AD 94-15-08, insp. of m/r blades with magnifying glass, and prepped, primed and painted outboard leading edges & changed telecops on upper & lower sheave bearings, installed a new R/H/T cross tube cap. Changed oil in main & tail rotor gearboxes (A-257-2), cleaned chip plugs and sight glasses and soaked. Installed a new main transmission cooling seat duct, cleaned and lubricated fuel shutoff valve (no leaks). Cleaned and touched up M-R & T-R hubs & swashplates. Cleaned & painted T-R P/estart by #3 Grommet. Installed new R-H door stop chafe strip. Installed new chafing strips on eng & trans access doors. Installed a readable compass card and C/W SL48, Lubrication of clutch actuator bearing & all work done I.A.W. R-22 maint manual or acceptable T-hunter practices. Removed M-R blades and complied with AD 88-26-01, Rev 2, polished marks out of spindles with 600 sandpaper and inspected with fluorescent penetrant, no cracks found. Rotated grips 360°, bearings smooth, reserved with Dexton oil and reinstalled with new bolts & nuts, torqued to .016 stretch and soaked with cotton pin and drilled hole per R-22 maint. manual. Also complied with AD 94-15-08, insp. of m/r blades with magnifying glass, and prepped, primed and painted outboard leading edges & changed telecops on upper & lower sheave bearings, installed a new R/H/T cross tube cap. Changed oil in main & tail rotor gearboxes (A-257-2), cleaned chip plugs and sight glasses and soaked. Installed a new main transmission cooling seat duct, cleaned and lubricated fuel shutoff valve (no leaks). Cleaned and touched up M-R & T-R hubs & swashplates. Cleaned & painted T-R P/estart by #3 Grommet. Installed new R-H door stop chafe strip. Installed new chafing strips on eng & trans access doors. Installed a readable compass card and C/W SL48, Lubrication of clutch actuator bearing & all work done I.A.W. R-22 maint manual or acceptable T-hunter practices.

I certify that this Rotorcraft has been
 Inspected in accordance with an 100/annual
 inspection and was determined to be in
 airworthy condition.
 Date 08-27-97 Total Time 477.7 Hobbs 477.7
 Signed Regene Dahl I.A. 1876028

INSPECTION RECORD

F.A.R. 43.11 - 91.217

DATE	AIRCRAFT TIME IN SERVICE	KIND OF INSPECTION - STATUS & DISCREPANCY LIST SIGNATURE - CERT. NO. OF PERSON APPROVING OR DISSAPPROVING AIRCRAFT FOR SERVICE
02/01/92	97.4	Performed in this helicopter a 100 hrs inspection in accordance with Robinson 22 maintenance manual & Inspection Criteria Section 2.410 & This Airframe was Found to be airworthy condition. <i>J. H. VanDusen ADP 583400138</i>
09/10/93	220.2	I CERTIFY THAT THIS <u>ROTORCRAFT</u> HAS BEEN INSPECTED IN ACCORDANCE WITH A <u>100 HR. ANNUAL</u> INSP. AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION. DATE - 09/10/93 AIRCRAFT T.T. 220.0 ENGINE TIME - 220.0 MECHANIC - <i>Eugene Dahl</i> CERT. NO. <i>FA 1876028</i> SEE DISCREPANCY sheets attached to Insp. forms for additional info. <i>Eugene Dahl 1876028</i>
10/11/94	307.9	I CERTIFY THAT THIS <u>ROTORCRAFT</u> HAS BEEN INSPECTED IN ACCORDANCE WITH A <u>100 HR. ANNUAL</u> INSP. AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION. DATE - 10/11/94 AIRCRAFT T.T. 307.9 ENGINE TIME - 307.9 MECHANIC - <i>Eugene Dahl</i> CERT. NO. <i>1876028</i>

INSPECTION RECORD

F.A.R. 43.11 - 91.217

DATE	AIRCRAFT TIME IN SERVICE	KIND OF INSPECTION - STATUS & DISCREPANCY LIST SIGNATURE - CERT. NO. OF PERSON APPROVING OR DISSAPPROVING AIRCRAFT FOR SERVICE
8-16-91	5.3	FAA Production Flight Test Satisfactory Douglas Doyle # 553254125
23 Aug 91	5.3	I find that this rotorcraft meets the requirements for the certification requested and have issued a Standard Airworthiness Certificate dated August 23, 1991
		Joan Norton DMIR NM667
		Authorized Signature & Number

F.A.R. 43.9

9-29-03	Hourmeter:	639.5
AIRFRAME		
TOTAL TIME:	639.5	
ENGINE		
TOTAL TIME:	639.5	
Boat:	5.5	

Authorized Signature: [Signature]

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
 Caribbean Aviation CARIBBEAN AVIATION MAINTENANCE CORP. P.O. BOX 41268 SAN JUAN P.R. 00940 TELEPHONE 1-787-723-3385 FAX 1-561-725-7611 FAA REP. STA. YCYR627X 			
<u>AIRCRAFT LOG ENTRY</u>			
N178EP S/N: 1918M HOBBS: 736.7 09-06-06			
<i>I certify that this rotorcraft has been tracked & balanced I.A.W R.H.C M/M section 10 & 6, main rotor, tail rotor, and fan wheel. All IPS readings where less than .20ips, see attached documents.</i>			
<i>The aircraft,airframe, engine, propeller or appliance identified above was repaired and inspected in accordance with Current Regulations of the Federal Aviation Administratio and is approved for return to service in respect with the jobs performed.</i>			
<i>Pertinent details of the repair are on file at this repair statio under : W.O #06-0905-00</i>			
<i>sign:  </i>			

MAINTENANCE RECORD

F.A.R. 43.9

[illegible]

MAINTENANCE RECORD

F.A.R. 43.9

[illegible]

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
4-14-94	269.1	Inspected Forward Flex-Plate and found to be Serviceable IAW S.B. #73 - END -	Reinberts Hernandez AP 49624099
		I CERTIFY THAT THIS Aircraft ^{Helicopter} HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 HR/annual MSD AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION.	
		DATE-10/11/94 AIRCRAFT T.T. 307.9	
		ENGINE TIME-307.9	
		MECHANIC- <i>Engine Hall</i> CERT# NO# 1876028	
10-05-94	307.9	Removed $\frac{1}{2}$ gearbox S/N 2415 and sent to Cav. Air inc. for compliance with AD 94-17-07	
10-07-94	307.9	Reinstalled $\frac{1}{2}$ gearbox S/N 2415 IAW. RIAC. maint. manual, Flight & Ops. check OK. <i>AP 53570734</i>	

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
10-10-94	307.9	Completed test flight and found helicopter in acceptable working order AP 3867384	
		10-5-94 C/W AD 94-17-07, Tail rotor gearbox shaft keys per para. A,B,C in ref. of service letter 45 and SB 74: I certify that tail rotor gearbox P/N A021-1 S/N 2415 was disassembled and both output and input shafts have keys. Reassembled per R.H.C. overhaul manual Cav-Air, Inc. FBLR821D James A. Phillips <i>James A. Phillips</i> Work order #H0677 T.T. 305.0	

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
09/03/92	136.3	Removed fan assy B774-1 To send to Robinson for a crack at the base forward of one vane Engen Call A&P 1876028	(Also removed damaged oil cooler assy to send to Robinson)
09/19/92	136.3	Installed overhauled clutch assy S/N 2890, overhauled fanwheel assy, and new oil cooler from RHC. Checked fan for balance with Chadwick and found OK. (Never over 11 IPS.) Leak check & Runup OK. Engen Call A&P 1876028	
09/19/92	136.3	Installed Kit P/N KI-74 to C/w Robinson Service letter no. 4. Operational check OK. Engen Call A&P 1876028	
02/13/93	168.2	CAT indication inoperative. Changed probe for troubleshooting. Removed gauge S/N 4961. Installed S/N 5447. Operational check OK. Engen Call 1876028	

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
09/22/92		Date <u>Sept 22, 1992</u> I certify I have inspected this <u>Helicopter</u> in accordance with a <u>Annual</u> and found it in airworthy condition. Tach reading <u>132.0</u>. Engine time <u>132.0</u>. Aircraft time <u>132.0</u>. <u>[Signature]</u> ATA&P 1309451	
09/10/93		I CERTIFY THAT THIS <u>Rotocraft</u> HAS BEEN INSPECTED IN ACCORDANCE WITH A <u>100HR/Annual</u> INSP. AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION. DATE <u>09/10/93</u> AIRCRAFT T.T. <u>220.0</u> ENGINE TIME - <u>220.0</u> MECHANIC - <u>Engen Call</u> CERT. NO. <u>1876028</u>	
8-9-93		AIRCRAFT TEST FLOWN AND FOUND AIRWORTHY IN ACCORDANCE WITH ROBINSON MAINT. MANUAL PROCEDURES <u>Willie W. Dun</u> AIP 21563-17. T/C HRS <u>219.4</u>	

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
04/26/92	118.2	Clutch stays engaged. Found Plug connection loose to Lower unit. Reconnected and checked operation OK.	Engine Doh AAP 1876028
05/12/92	119.0	Clutch failed again. Unable to duplicate condition. Removed clutch Assy SN 2425 Installed serviceable Clutch Assy SN 2444 Installed and retorqued Safety Fan and Ground Assy. Checked Fan Assy with Chadwick Equipment for balance - .15 IPS.	Engine Doh AAP 1876028
06/04/92	120.0	Removed main rotor blades Due to corrosion aft of leading edge on blade SN 6371. Sent Blade back to Robinson for inspection and repair. Repainted other blade and T-R blades.	Engine Doh AAP 1876028

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
06/19/92	120.0	Static balanced M-R Hub & Blades. Installed M-R Hub and stretch Torqued to specs teetering bolt and set teetering friction. Installed M-R blades. Coning action OK. Stretch Torqued blade bolts and checked coning friction to specs. Track & balanced M-R blades to .14, Tail rotor blades to .08 IPS. with Chadwick. Engine Doh AAP 1876028	
06-19-92	120.0	Belt tension actuator stays engaged. Replaced belt tension actuator motor P/N A051-2. Ground run OK. M. Ehlman Doh AAP 582693156	
09-03/92	136.3	Removed clutch shaft-sprocket clutch, upper bearing A184-3, upper sheave Assy, A166-1 SN 2589; A188-2, SN 2220; To send to Robinson for new sheave. Engine Doh AAP 1876028	

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
2-11-92	99.2	Adjusted dual tachs in accordance w/ R22 Maintenance Manual, replaced carb heat shroud and t/r to temp	M. Elum J 5A#PS82693156
3-5-92	107.4	Complied with SB 69 and no "AF" bolts were found during the inspection	M. Elum J 5A#PS82693156
04/01/92	112.0	Complied with S/B 67468, Installation of Reinforced Tire Guard and Doubler.	Eugene Dall 1876028 A.P.
04/01/92	112.0	Clutch motor intermittent. Dried water from clutch motor with Air and sealed with Pro-seal 890. Removed cooling Fan Assy, Cleaned up corrosion, primed and repainted, Reinstalled, Torqued, safetied, and checked Balance per Robinson specs with Chadwick-Helmuth equipment. within limits at .15 i.p.s.	Eugene Dall A.P. 1876028

F.A.R. 91.171

RADIO & ELECTRONIC CHECKS

**THE FOLLOWING TRANSPONDER HAS BEEN TESTED PER FAR 91.413
AND HAS BEEN FOUND TO COMPLY WITH FAR PART 43, APPENDIX
F:**

SIGNED Chadwick DATE 7-31-91

THE FOLLOWING TRANSPONDER HAS BEEN TESTED PER FAR 91.413
AND HAS BEEN FOUND TO COMPLY WITH FAR PART 43, APPENDIX
F:

SIGNED MARTIN P. SCHNEIDER  DATE 9-2-63

ROBINSON HELICOPTER COMPANY
REPAIR STATION NO. YV3R012M

MAJOR ALTERATIONS

DATE

DESCRIPTION OF ALTERATION

Feb 6/92 Installed Garmin GPS System and an Arc-Response
Radio Corp. Model A-MR 2A L/R Steering indicator. For details
of work performed see RMA Form 337 of this date.

Springer's Inc.

Rep. 515 Q x 4 R x 82m

By: [Signature] C-22 Reg.

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	A181-4	1812	NEW	0	2000 TBO	6-4-03 634.0	RHC PC424WE REMOVED, RHC REPAIR STA YV3R012M
Sprag Clutch	A188-2	2220	NEW	0	2000 TBO		
TR Yoke Assy	A195-1	2545	NEW	0	5000 Life		
MR Driveshaft	A251-1	V1965	NEW	0	2000 TBO	6-4-03 634.0	REMOVED, RHC REPAIR STA YV3R012M
MR Yoke Assy	A907-5	10144	NEW	0	2000 TBO	6-4-03 634.0	REMOVED, RHC REPAIR STA YV3R012M
TR Bolt	NAS1304-24	NA	NEW	0	4430 Life	6-4-03 634.0	REMOVED, RHC REPAIR STA YV3R012M
TR D/shaft Yoke	B223-6	1013	NEW	0	2000 TBO	6-4-03 634.0	REMOVED, RHC REPAIR STA YV3R012M
TR D/shaft Assy	B224-1	1608	NEW	0	2000 TBO	6-4-03 634.0	RHC PC424WE REMOVED, RHC REPAIR STA YV3R012M
MRGB	A006-1	2096	OVERHAULED	634.0	2200TBO	4-12-16 879.5	INSTLD RHC REPAIR STA YV3R012M
MR BLADE	A016-2	14456A	NEW	0	2200LIFE		
MR BLADE	A016-2	14458A	NEW	0	2200LIFE		
SWASH PLATE	A017-2	2157	OVERHAULED	634.0	2200TBO	4-12-16 879.5	REMOVED, RHC REPAIR STA YV3R012M
UPPER FRAME	A020-2	4699	NEW	0	4400LIFE	4-12-16 879.5	REMOVED, RHC REPAIR STA YV3R012M
TRGB	A021-1	2415	OVERHAULED	634.0	2200TBO	4-12-16 879.5	REMOVED, RHC REPAIR STA YV3R012M
TAIL CONE	A023-1	0624	OVERHAULED	634.0	4400LIFE	4-12-16 879.5	REMOVED, RHC REPAIR STA YV3R012M
TR BLADE	A029-1	13482K	NEW	0	5525LIFE	4-12-16 879.5	REMOVED, RHC REPAIR STA YV3R012M
TR BLADE	A029-1	13480I	NEW	0	5525LIFE	4-12-16 879.5	REMOVED, RHC REPAIR STA YV3R012M
TR HUB	A062-2	1924	NEW	0	6000LIFE	4-12-16 879.5	REMOVED, RHC REPAIR STA YV3R012M

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.
PITCH CONTROL	A031-1	4805	NEW	0	2200TBO	4-12-16 879.5	REMOVED, RHC REPAIR STA YV3R012M
HORIZONTAL STABILIZER	A044-1	2589	OVERHAULED	634.0	2200TBO		INSTLD RHC REPAIR STA YV3R012M
LOWER R/R FRAME	A046-2	1618	OVERHAULED	634.0	5110LIFE	4-12-16 879.5	REMOVED, RHC REPAIR STA YV3R012M
ACTUATOR	A051-1	1989	OVERHAULED	0 TSCN	2200TBO	4-12-16 879.5	REMOVED, RHC REPAIR STA YV3R012M
MR HUB	A154-1	2209	OVERHAULED	634.0	4400LIFE	4-12-16 879.5	REMOVED, RHC REPAIR STA YV3R012M
SPINDLE	A158-1	12828	NEW	0	2915LIFE	4-12-16 879.5	REMOVED, RHC REPAIR STA YV3R012M
SPINDLE	A158-1	12829	NEW	0	2415LIFE	4-12-16 879.5	REMOVED, RHC REPAIR STA YV3R012M
CLUTCH SHAFT	A166-1	6189	NEW	0	2200TBO	4-12-16 879.5	REMOVED, RHC REPAIR STA YV3R012M
BEARING	A181-4	4351	NEW	0	2200TBO	4-12-16 879.5	REMOVED, RHC REPAIR STA YV3R012M
SPRAG	A188-2	6315	NEW	0	2200TBO	4-12-16 879.5	REMOVED, RHC REPAIR STA YV3R012M
MR DRIVESHAFT	A251-1	5295	NEW	0	2200TBO	4-12-16 879.5	REMOVED, RHC REPAIR STA YV3R012M
TR DRIVESHAFT	B224-1	2838	OVERHAULED	0 TSCN	2200TBO	4-12-16 879.5	REMOVED, RHC REPAIR STA YV3R012M
TR BOLT	NAS1304-24	N/A	NEW	0	4430LIFE	4-12-16 879.5	REMOVED, RHC REPAIR STA YV3R012M
CONING RING BOLT	NAS630-20	N/A	NEW	0	2200LIFE	4-12-16 879.5	REMOVED, RHC REPAIR STA YV3R012M
PITCH HORN SCREWS	A722-2	N/A	NEW	0	2200LIFE	4-12-16 879.5	REMOVED, RHC REPAIR STA YV3R012M
ENGINE	O-300-826	L-16878-39A	OVERHAULED	634.0	2200TBO	4-12-16 879.5	REMOVED, RHC REPAIR STA YV3R012M
MR BLADE	A016-6	229	NEW	0	2200TBO	4-12-16 879.5	REMOVED, RHC REPAIR STA YV3R012M
MR BLADE	A016-6	232	NEW	0	2200TBO	4-12-16 879.5	REMOVED, RHC REPAIR STA YV3R012M

12 yrs

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 Gear Box	A006-1	2096	NEW	0	2000 TBO	6-4-03 637.0	RHC PC424WE REMYD, RHC REPAIR STA YV3R012M
MR Blade	A016-2	6348A	NEW	0	2000 Life	6-4-03 637.0	REMYD, RHC REPAIR STA YV3R012M
MR Blade	A016-2	6371A	NEW	0	2000 Life	6-4-03 637.0	REMYD, RHC REPAIR STA YV3R012M
MR Swashplate	A017-2	2157	NEW	0	2000 TBO	6-4-03 637.0	REMYD, RHC REPAIR STA YV3R012M
Welded Frame	A020-2	2243	NEW	0	4200 Life	6-4-03 637.0	REMYD, RHC REPAIR STA YV3R012M
TR Gear Box	A021-1	2415	NEW	0	2000 TBO	6-4-03 637.0	REMYD, RHC REPAIR STA YV3R012M
Tail Cone Assy	A023-1	0624	NEW	0	4000 Life	6-4-03 637.0	REMYD, RHC REPAIR STA YV3R012M
TR Blade	A029-1	5495F	NEW	0	5525 Life	6-4-03 637.0	REMYD, RHC REPAIR STA YV3R012M
TR Blade	A029-1	5491F	NEW	0	5525 Life	6-4-03 637.0	REMYD, RHC REPAIR STA YV3R012M
TR Hub	A030-1	2397	NEW	0	6260 Life	6-4-03 637.0	REMYD, RHC REPAIR STA YV3R012M
TR Pitch Control	A031-1	2224	NEW	0	2000 TBO	6-4-03 637.0	REMYD, RHC REPAIR STA YV3R012M
Horiz Stab	A044-1	2589	NEW	0	2000 TBO	6-4-03 637.0	REMYD, RHC REPAIR STA YV3R012M
Welded Frame	A046-2	1618	NEW	0	5110 Life	6-4-03 637.0	REMYD, RHC REPAIR STA YV3R012M
Actuator	A051-1	2425	NEW	0	2000 TBO		
MR Hub	A154-1	2209	NEW	0	4000 Life	6-4-03 637.0	REMYD, RHC REPAIR STA YV3R012M
MR Spindle	A158-1	5147	NEW	0	2415 Life	6-4-03 637.0	REMYD, RHC REPAIR STA YV3R012M
MR Spindle	A158-1	5132	NEW	0	2415 Life	6-4-03 637.0	REMYD, RHC REPAIR STA YV3R012M
Clutch Shaft	A166-1	2589	NEW	0	2000 TBO	136r3 Installed S/N 2890	RHC PC424WE

AIRCRAFT DESCRIPTION

MANUFACTURER Robinson Helicopter Co. MODEL R22 Marine DATE OF MFG 23 August 1991

SERIAL NUMBER 1918M REGISTRATION NUMBER N178EP

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. 91.169 ANNUAL/100 HOUR

☐

F.A.R. 91.71 PROGRESSIVE

☐

F.A.R. 91.217 SUBPART D

☐

F.A.R. 135.60 A.T.C.O.

☐

OTHER

DATE ENTERED _____

MAINTENANCE RESPONSIBILITY

