RECORD
-91.409

) OF INSPECTION–STATUS & DISCREPANCY LIST
OF PERSON APPROVING OR DISAPPROVING AIRCRAFT FOR SERVICE

R44 Raven II Hobbs: 201.0 3/6/16
S/N 10878 Acft TT: 1979.8

ction and was found to be in airworthy condition and is

R44 Raven II Hobbs: 299.5 4/16/16
S/N 10878 Acft TT: 2078.3

n and was found to be in airworthy condition and is

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

N494SH R44 Raven II Hobbs: 398.37 12/6/16
S/N 10878 Acft TT: 2173.1

I certify this aircraft has been inspected IAW with annual inspection and was found to be in airworthy condition and is approved for return to service. [redacted]

Johnny Stevenson A&P [redacted] IA

N494SH R44 Raven II Hobbs: 494.0 4/7/17
S/N 10878 Acft TT: 2269.8

I certify this aircraft has been inspected IAW Annual inspection and was found to be in airworthy condition and is approved for return to service. [redacted]

Johnny Stevenson A&P [redacted] IA

INSPECTION RECORD
F.A.R. 43.11-91.409

DATE	AIRCRAFT TIME IN SERVICE	KIND OF INSPECTION-STATUS & DISCREPANCY LIST SIGNATURE — CERT. NO. OF PERSON APPROVING OR DISAPPROVING AIRCRAFT FOR SERVICE
		N494SH R44 Raven II S/N 10878 Hobbs: 552.9 Acft TT: 2327.7 3/22/18
		I certify this aircraft has been inspected IAW Annual inspection and was found to be in airworthy condition and is approved for return to service. [redacted]
		Johnny Stevenson A&P [redacted] IA

RECORD
-91.409

ND OF INSPECTION–STATUS & DISCREPANCY LIST
). OF PERSON APPROVING OR DISAPPROVING AIRCRAFT FOR SERVICE

R44 Raven II Hobbs: 552.9 3/22/18
S/N 10878 Acft TT: 2327.7

ion and was found to be in airworthy condition and

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

Apex Helicopters LLC
[redacted]rcola, TX 77583

Date: 5[redacted]-2019 N494SH Robinson R44 Raven II S/N: 10878
TTAF: 2446.9 SMOH: 672.1 HOBBS: 672.1

Performed 100 hour/Annual airframe inspection IAW Robinson MM Section 2.400 and Appendix D to CFR part 43, see checklist on file for details of inspection. Installed new C771-2 air filter. Drained and flushed TRGB with oil A257-2. Cleaned and tested MRGB/TRGB chip detectors. Touched up paint on MR blade tip caps, TR blade tips, lower LH and RH frames. Performed sheave alignment check and adjusted to L/H .090, R/H .070. Replaced hydraulic filter AN6235-1A and serviced reservoir with MIL-5606 fluid. Removed engine fan reference RMM Sec 6.210 and replaced starter ring gear 72566. Installed fan and balanced to .13ips @ 1:00 IAW RMM Sec 6.220-6.240. Complied with the following SB's and SL's: SB96 D602-1 Time Delay Assembly N/A due to lot number installed, SB97 R44 II Induction Hose N/A due to part number installed, SB98B Air/Oil Separator Hose Spring N/A part not installed, SL61A A185 Brackets Installation & Fiberglass Scroll Repair per instructions. All SB's now current through SB-98B. Performed ELT test per 14 CFR 91.207(d). Inspected and weighed fire extinguisher, weight within limits. AD's checked and current through 2019-10. I certify that this airframe has been inspected IAW a 100 hour inspection and was determined to be in airworthy condition. Airframe returned to service this date and time.

[redacted]
Douglas Dickey A[redacted]A

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
		N494SH **R44 Raven II** **Hobbs: 780.5** **9/16/20*** **S/N 10878** **Acft TT: 2555.3** I certify this aircraft has been inspected IAW Annual inspection and was found to be in airworthy condition and is approved for return to service. [redacted] **Johnny Stevenson A&P [redacted] IA**

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.

N494SH **R44 Raven II** **Hobbs: 494.0** **4/7/17**
S/N 10878 **Acft TT: 2269.8**

Lyc. IO-540-AE1A5 S/N: L-30347-48A TTSN: 4674.81

Annual / 100 / 500 hour inspection performed per Lycoming MM. Removed and replaced spark plugs with UREM 38S plugs. Oil changed, 9qts Aero Shell 100 Plus installed. Oil filter removed cut open with no faults noted. Oil suction screen removed, inspected, cleaned and re-installed. Removed both R/H and L/H magnetos, installed O/H magneto's Ser # E15AA125R, E15BA031R. Repaired damaged R/H mag P-lead wire. Mag timing checked at 20 degrees BTC. Compression checked, # 1 79/80, #2 78/80, #3 78/80 # 4 79/80, #5 78/80, and # 6 79/80. Replaced cylinder head temp probe with new. AD 2015-19-07, issued 3 Nov 2015 with no revisions. ENG washed with solvent. Engine ground run and checked for leaks. I certify this engine has been inspected IAW annual inspection and was found to be in airworthy condition and is approved for return to service.
[redacted]

Johnny Stevenson A&P [redacted]

4/14/2017 Oil changed and filter replaced per manufacturers recommendations. Oil filter Champion CH148108-1. 9 qt oil replaced Aeroshell 100W. Engine started and oil pressures and temperature within normal limits. No leaks noted. Hobbs 443.99 certify that this engine has been inspected and found to be in an Airworthy condition and is approved for return to service.Glenn Ihde, Owner & Operator. Pilots Cert [redacted]
[redacted]

SELECT AIRCRAFT SERVICES

SERVICEABLE PARTS TAG & MAINTENANCE RELEASE

CUSTOMER	WORK ORDER NO.		
STEVENSON	9792-00		

PART NUMBER	PART NAME	QUANTITY	MANUFACTURER
BL-600646-201	MAGNETO	1	TCM

PART SERIAL NUMBER	TOTAL TIME	TOTAL CYCLES	T.S.O.	C.S.O.
ELSBA12SR				

REPAIRS ACCOMPLISHED: 50hr Insp. Inspector [redacted] Date 4-4-17

Maintenance Release

The appliance identified above was repaired and inspected in accordance with current Regulations of the Federal Aviation Administration and is approved for retrun to service. Pertinent details of the repair are on file at Select Aircraft Services.

Work Order No. 9792-00

DATE 4-4-17 SIGNED [redacted] for:

Select Aircraft Services [redacted] Lancaster, TX 75146, Lancaster Airport [redacted]

SELECT AIRCRAFT SERVICES

SERVICEABLE PARTS TAG & MAINTENANCE RELEASE

CUSTOMER	WORK ORDER NO.		
STEVENSON	9793-00		

PART NUMBER	PART NAME	QUANTITY	MANUFACTURER
BL-600616-9	MAGNETO	1	TCM

PART SERIAL NUMBER	TOTAL TIME	TOTAL CYCLES	T.S.O.	C.S.O.
ELSBA23JR				

REPAIRS ACCOMPLISHED: 50hr Insp. Inspector [redacted] Date 4-4-17

Maintenance Release

The appliance identified above was repaired and inspected in accordance with current Regulations of the Federal Aviation Administration and is approved for retrun to service. Pertinent details of the repair are on file at Select Aircraft Services.

Work Order No. 9793-00

DATE 4-4-17 SIGNED [redacted] for:

Select Aircraft Services [redacted] Lancaster, TX 75146, Lancaster Airport [redacted]

ENANCE RECORD

ON OR MAINTENANCE PERFORMED
GENCY & CERTIFICATE NO.

R44 Raven II Hobbs: 494.0 4/7/17
S/N 10878 Acft TT: 2269.8

-30347-48A TTSN: 4674.81
MM. Removed and replaced spark plugs with
alled. Oil filter removed cut open with no faults
installed. Removed both R/H and L/H magnetos,
paired damaged R/H mag P-lead wire. Mag timing
#2 78/80, #3 78/80 # 4 79/80, #5 78/80, and # 6
-19-07, issued 3 Nov 2015 with no revisions. ENG
s. I certify this engine has been inspected IAW
and is approved for return to service.

'2017 Oil changed and filter replaced per manufacturers
mendations. Oil filter Champion CH148108-1. 9 qt oil
ed Aeroshell 100W. Engine started and oil pressures and
rature within normal limits. No leaks noted. Hobbs 443.99
that this engine has been inspected and found to be in an
thy condition and is approved for return to service.Glenn
Owner & Operator. Pilots Cert [redacted]

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
10/5/17	2281.04 Acft	Concorde 4yr battery Installed [redacted]

N494SH R44 Raven II Hobbs: 552.9 3/22/18
S/N 10878 Acft TT: 2327.7

Lyc. IO-540-AE1A5 S/N: L-30347-48A TTSN: 4729.7

Annual / 100 hour inspection performed per Lycoming MM. Removed cleaned and rotated plugs top to bottom. Oil changed, 9qts Aero Shell 100 Plus installed. Oil filter removed cut open with no faults noted. Oil suction screen removed, inspected, cleaned and re-installed. Replaced oil drain valve with new. Removed and replaced Muffler and shroud assy with new. Removed and replaced L/H exhaust riser with new. Engine oil seal leaking, removed fan, clutch and V-belts for maintenance conveyance, removed and replaced engine seal. Reinstalled removed parts. Balanced fan to below .20 ips. Mag timing checked at 20 degrees BTC. Compression checked, # 1 79/80, #2 78/80, #3 79/80 # 4 79/80, #5 79/80, and # 6 79/80. AD 2015-19-07, issued 3 Nov 2015 with no revisions. ENG washed with solvent. Engine ground run and checked for leaks. I certify this engine has been inspected IAW annual inspection and was found to be in airworthy condition and is approved for return to service. [redacted]

Johnny Stevenson A&P [redacted] IA

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
		6/29/2018 Oil changed and filter replaced per manufacturers recommendations. Oil filter Champion CH148108-1. 9 qt oil replaced Aeroshell 100W. Engine started and oil pressures and temperature within normal limits. No leaks noted. Hobbs 601.63 certify that this engine has been inspected and found to be in an Airworthy condition and is approved for return to service.Glenn Ihde, Owner & Operator. Pilots Cert [redacted]
		12/14/2018 Oil changed and filter replaced per manufacturers recommendations. Oil filter Champion CH148108-1. 9 qt oil replaced Aeroshell 100W. Engine started and oil pressures and temperature within normal limits. No leaks noted. Hobbs 648.15 certify that this engine has been inspected and found to be in an Airworthy condition and is approved for return to service. Glenn Ihde, Owner & Operator. Pilots Cert [redacted]

ENANCE RECORD

N OR MAINTENANCE PERFORMED
GENCY & CERTIFICATE NO.

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.

Apex Helicopters LLC
[redacted]**Arcola, TX 77583**

Date: 5-15-2019 N494SH Engine: Lycoming P/N IO-540-AE1A5
TTE: 4848.9 SMOH: 672.1 S/N: L-30347-48A

Performed 100 hour / Annual engine inspection IAW Robinson MM, Lycoming MM checklist, and FAR 43.13 Appendix "D", see checklist on file for details of inspection. Checked component records and no overhaul related action due at this time. The following reoccurring AD's, SB's, and SL's were complied with at this time: SB342F ref AD 2015-19-07, SB301B, SB643B. C/W AD 2017-16-11 ref SB-632B Connecting Rod bushings, N/A by engine serial number and parts installed at last overhaul. Checked engine cylinder compressions 1-74/80, 2-75/80, 3-75/80, 4-72/80, 5-75/80, 6-72/80. Checked all fuel lines and fittings for signs of leakage and no defects detected. Cleaned, inspected, gapped, tested, replaced (1) UREM38S plug with new and reinstalled with new M-674 copper gaskets. Drained engine oil and inspected oil filter and sump filter screen, no metal found. Installed new filter AA48108-2 and serviced with 8 quarts Aeroshell W100Plus IAW SB480. Inspected all electrical systems wiring and components for condition. Reamed all exhaust valves and complete valve wobble check IAW Lycoming SB388C. Cleaned fuel servo inlet screen and reinstalled with new o-ring 951790. Verified both magnetos to 20° BTDC. Replaced right side C169-6 exhaust collector, C169-8, C169-10, and C169-30 risers with serviceable units and (6) new 77611 gaskets. Removed engine fan reference RMM Sec 6.210 and replaced starter ring gear 72566. Installed fan and balanced to .13ips @ 1:00 IAW RMM Sec 6.220-6.240. Performed a ground operational run up check and no defects or leaks noted. I certify that this engine has been inspected IAW a 100 hour inspection and was determined to be in airworthy condition. Engine returned to service this date and time.

[redacted]
Douglas Dickey AP[redacted]A

Apex Helicopters LLC
[redacted]**Arcola, TX 77583**

Date: 10-3-2019 N494SH Engine: Lycoming P/N IO-540-AE1A5
TTE: 4898.4 SMOH: 721.6 S/N: L-30347-48A

Washed engine with solvent. Ran engine to identify oil leaks. Drained engine oil and inspected oil filter, no metal found. Installed new filter AA48108-2 and serviced with 9 quarts Aeroshell W100Plus IAW SB480. Replaced (4) #4 cylinder intake/exhaust pushrod tube seals P/N:SL18661. Replaced CHT probe P/N 3080-38. Tightened all oil return lines. Performed a ground operational run up check and no defects or substantial leaks noted. Engine returned to service this date and time.

[redacted]
Douglas Dickey AP[redacted]

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
		7/16/2020 Oil changed and filter replaced per manufacturers recommendations. Oil filter Champion CH148108-1. 9 qt oil replaced Aeroshell 100W. Engine started and oil pressures and temperature within normal limits. No leaks noted. Hobbs 770.09. I certify that this engine has been inspected and found to be in an Airworthy condition and is approved for return to service. Glenn Ihde, Owner & Operator. Pilot Cert [redacted]

N494SH **R44 Raven II** **Hobbs: 780.5** **9/16/20***
S/N 10878 **Acft TT: 2555.3**

Lyc. IO-540-AE1A5 S/N: L-30347-48A TTSN: 4957.3

Annual inspection performed per Lycoming MM. Removed and replaced all 12 spark plugs with new UREM 38S plugs. Oil changed, 9qts Aero Shell 15W 50 installed. Oil filter removed cut open with no faults noted. Oil suction screen removed, inspected, cleaned and re-installed. Mechanical fuel pump leaking excessively, removed and replaced mechanical fuel pump with new. Mag timing checked at 20 degrees BTC. Compression checked, # 1 76/80, #2 75/80, #3 75/80 # 4 76/80, #5 58/80, and # 6 76/80. Reamed # 5 cylinder valve guide, compression check after reaming was 74/80. AD 2015-19-07, issued 3 Nov 2015 with no revisions. ENG washed with solvent. Engine ground run and checked for leaks. I certify this engine has been inspected IAW annual inspection and was found to be in airworthy condition and is approved for return to service.

[redacted]

Johnny Stevenson A&P [redacted] IA

EAST TEXAS FLYING SERVICE INC. AUTHORIZED
ROBINSON SERVICE CENTER #10073[redacted]
N494SH 11/1/2021 893 Hobbs. 2667.8 TT. All necessary panels opened for inspection. Aircraft inspected in accordance with Robinson 100 hour inspection requirements. Aircraft lubricated as required by applicable maintenance manual. All Ads checked for compliance. New AD compliance report prepared & added to aircraft maintenance records.ELT operationally tested in accordance with FAR 91.207 (d). Fire extinguisher inspected & tagged. Installed new air filter. Drained, flushed and serviced MR transmission. Installed 1 new D173-3 rod end on swash plate. Replaced C258-5 MR pitch links. Replaced B345-4 TR pitch links. Replaced A101-4 clutch centering rod ends. Installed new B173-3 alternator belt. CW SB 100 by installing new A785-31 Induction hose. Replaced 3 teletemps. Tracked & balanced MR blades & balanced engine fan. Serviced OR clutch. Replaced 1 fuel drain hose. Aircraft test flown & approved for return to service.

----------CONTINUED----------

NANCE RECORD

N OR / ENCY

7/10/2021 Hobbs Time: 830.2

Oil changed and oil filter replaced per manufacturer's recommendations. Champion oil filter p/n: CH48108-1 installed. 9 quarts of Aeroshell W100+ added. Started engine and verified temperatures and pressures within normal operating range. Leak check performed, no leaks observed. I certify that the above maintenance has been performed, the aircraft and engine inspected, and that the aircraft is determined to be airworthy and is approved for return to service.

Luke Miller Commercial Pilot Certificate [redacted]

8/30/2021 Hobbs Time: 873.0

Oil changed and oil filter replaced per manufacturer's recommendations. Champion oil filter p/n: CH48108-1 installed. 9 quarts of Aeroshell W100+ added. Started engine and verified temperatures and pressures within normal operating range. Leak check performed, no leaks observed. I certify that the above maintenance has been performed, the aircraft and engine inspected, and that the aircraft is determined to be airworthy and is approved for return to service.

Luke Miller Commercial Pilot Certificate [redacted]

9/2/2021 Hobbs Time: 878.5

Replaced aircraft battery with new Concorde Battery p/n: RG24-15. Reinstalled all panels. Started engine to verify that the new battery functioned correctly and observed normal indications on the gauges with the alternator switched on. I certify that the above maintenance was performed, and that the aircraft is determined to be airworthy and is returned to service.

Luke Miller Commercial Pilot Certificate [redacted]

EAST TEXAS FLYING SERVICE INC. AUTHORIZED ROBINSON SERVICE CENTER #10073 [redacted] N494SH 11/1/2021 893 Hobbs. Engine compression test results as follows:

1-62 2-73 3-66 4-65 5-68 6-73

Oil & filter changed. 7 qts. Aeroshell 15W50 installed. CH 48108 oil filter & 1 Pt. Avblend installed. Replaced MS21919WDG42 clamp. Installed new LW13792 Crankshaft seal. Replaced C653-1 aft engine mount. Installed new UREM38E spark plugs. Tightened oil drain tube hoses. CW AD 15-19-07 by inspection of FI lines)

Engine ground-run & leak checked. See airframe logbook & AD compliance report for AD compliance details.

I CERTIFY THAT I HAVE INSPECTED THIS ENGINE IN ACCORDANCE WITH A 100 HR INSPECTION & THAT IT IS IN AN AIRWORTHY CONDITION.

[redacted]

PATRICIA BURCH

[redacted] AP/IA

I CERTIFY THAT I HAVE INSPECTED THIS AIRCRAFT IN ACCORDANCE WITH AN ANNUAL INSPECTION & THAT IT IS IN AN AIRWORTHY CONDITION.

PATRICIA BURCH

[redacted] AP/IA Comm. R/H

[redacted]

5/28/2022 Oil changed and filter replaced per manufacturers recommendations. Oil filter Champion CH148108-1. 9 qt oil replaced Aeroshell 100W. Engine started and oil pressures and temperature within normal limits. No leaks noted. Hobbs 939.47. I certify that this engine has been inspected and found to be in an Airworthy condition and is approved for return to service. Glenn Ihde, Owner & Operator. Pilots Cert [redacted]

DATE

Stevenson Helicopters LLC

[redacted]

Caddo Mills, TX 75135

Invoice

Date	Invoice #
2/13/2023	333

Bill To	Ship To
Ihde Investments LP [redacted] Attn :Glenn Ihde Red Oak, Texas 75154	

P.O. Number	Terms	Rep	Ship	Via	F.O.B.	Project
442SH			2/13/2023		[redacted]	[redacted]

Quantity	Item Code	Description	[redacted]
1	Annual R-44	Annual on R-44	
8	Aero Shell 15W 50	15 W 50 Oil	
1	Oil Filter	AA48108-2 Oil Filter	
1	Hyd Filter	Hydraulic filter	
1	CA6525	R-44 Air filter	
12	REM 38E	Spark plugs high electrode	
1	R-44 L/H Magneto	R-44 L/H Magneto	
1	R44 R/H Mag	Magneto	
1	ELT Battery	ELT Battery	
1	ACESS 2020	Use of Special Equipment install and use for fan Bal	
17	Maintenace Labor	Remove fan assy / lower sheeve, lower bearing, Mechanical fuel pump / Reinstall and replace parts	

Total [redacted]

N494SH **R44 Raven II** **Hobbs: 983.5** **2/17/2023**
S/N 10878 **Acft TT: 2758.3**

Annual inspection performed IAW RHC M/M check list. Inspected and cleaned gascolator, Drain and flushed both main rotor & tail rotor gearbox's and cleaned and tested chip detectors. Serviced Main and Tail rotor gearbox with A257-2 gear oil. Drain and flush clutch. Installed new air filter CA6525. Installed new Hydraulic filter AN6235-1A. AD 2022-12-08, issued 6/29/2022 with no amendments completed, N/A by serial #. AD 2022-19-12, issued 10/20/2022 with no amendments completed, N/A by ser # of T/R Blades. ELT battery out of date expired 3/2021, removed ELT battery and replaced with new Ser# TM0000275194 new expiration date is 9/2029. ELT tested with no faults noted. Found fan wheel rubbing on lip seal top and bottom, upon further inspection found that the fan wheel had been installed incorrectly and not properly torqued. Removed nut from fan assy and the fan came off with no effort. Further inspection revealed excessive corrosion on the lower shaft assy. Removed lower shaft and replaced with new C181-3 bearing and shaft Ser # 12229. Replaced lip seals with new, replaced fan nut, pin and washers with new. Balanced fan to .09 ips. I certify this rotorcraft has been inspected IAW Annual inspection and was found to be in an airworthy condition and is approved for return to service.

Johnny Stevenson A&[redacted]A

N494SH **R44 Raven II** **Hobbs: 983.5** **2/17/2023**
S/N 10878 **Acft TT: 2758.3**

Lyc. IO-540-AE1A5 S/N: L-30347-48A TTSN: 5160.3

Annual inspection performed per Lycoming MM. Removed and replaced all 12 spark plugs with new REM 38E plugs. Oil changed, 9qts Aero Shell 15W 50 installed. Oil filter removed cut open with no faults noted. Oil suction screen removed, inspected, cleaned and re-installed. Mechanical fuel pump leaking excessively, removed and replaced mechanical fuel pump with new Ser # 3522L0054. Removed both left and right magnetos, Replaced with O/H magnetos Ser # E14HA233, E14IA072. Mag timing checked at 20 degrees BTC. Compression checked, # 1 76/80, #2 76/80, #3 77/80 # 4 76/80, #5 77/80, and # 6 76/80. AD 2015-19-07, issued 3 Nov 2015 with no revisions. ENG washed with solvent. Engine ground run and checked for leaks. I certify this engine has been inspected IAW annual inspection and was found to be in airworthy condition and is approved for return to service.

Johnny Stevenson A&P [redacted] IA

N494SH **R44 Raven II** **Hobbs:** **983.5** **2/17/2023**
S/N 10878 **Acft TT:** **2758.3**

I certify this aircraft has been inspected IAW Annual inspection and was found to be in airworthy condition and is approved for return to service.

Johnny Stevenson A&P [redacted]A