

ENGINE LOG
EF5-1

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
	Make/Model R22 Serial No 1918 Hobbs 850 8	Reg No N178EP Date 11/01/2024 Work Order 002956 
	Description of Work Performed	
	• Complied with engine 50 hour inspection. Ref. Lycoming O-320 Operator's Manual • Complied with SB 480F. Drained oil and serviced system with 6 quarts of aeroshell 100W plus. Installed new oil filter. Removed oil screen. Inspected and reinstalled • Complied with run up, leak check, and all operational checks. All work performed ref Lycoming O-320 operators manual	
	I certify this engine has been inspected in accordance with a 50 hour inspection and was found to be in airworthy condition	
	 Lance Workman AP 3892417	

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
		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 engine 100HR/Annual inspection. Ref. Lycoming 0-320 operators manual, R22 maintenance manual applicable inspection requirements, and IAW FAR 43 App D - Complied with all applicable ADs through bi-weekly 2024-16 - Complied with SB 480F. Drained oil and serviced system with 6 quarts of Aeroshell 100W Plus. Installed new oil filter. Removed oil screen. Inspected and reinstalled. - Inspected fuel screens and reinstalled Ref. RHC R22 IPC Fig. 28-13 - Complied with Lycoming SI 1191A cylinder compression check. Results: #1 72/80 #2 78/80 #3 76/80 #4 76/80 - Complied with SI 1129D alternator belt tension. Adjusted to be within limits for used belt - Complied with Lycoming SB 366C, no defects noted - Complied with CMI SB 643C, 100HR inspection. Results: 25 Deg - Complied with run up check, leak check, and all operational checks. All work performed. Ref. RHC R22 maintenance manual and Lycoming 0-360 operators manual I certify this engine has been inspected in accordance with a 100HR/Annual inspection and was found to be in airworthy condition  Lance Workman AP/IA 3892417

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
		Make/Model: R22 Serial No: 1918M Hobbs: 753.9 Reg No: N178EP Date: 09/09/2024 Work Order: 002909 
		Description of Work Performed - Complied with engine 50 hour inspection. Ref. Lycoming 0-320 Operator's Manual - Complied with SB 480F. Drained oil and serviced system with 6 quarts of aeroshell 100W plus. Installed new oil filter. Removed oil screen. Inspected and reinstalled - Complied with run up, leak check, and all operational checks. All work performed ref Lycoming 0-320 operators manual I certify this engine has been inspected in accordance with a 50 hour inspection and was found to be in airworthy condition  Lance Workman AP 3892417

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
		Make/Model: R22 Serial No: 1918M HOBBS: 601.5 Reg No: N178EP Date: 4/10/2024 Work Order: 002760  Description of Work Performed - Complied with SB 301B, no defects noted - Complied with SB 388C, Results: #1 0.022" #2 0.028" #3 0.021" #4 0.019" - All work above was found to be airworthy and this aircraft is released back to service  Lance Workman AP 3892417 Make/Model: R22 Serial No: 1918 ACTT: 623.3 Reg No: N178EP Date: 5/6/2024 Work Order: 002782  Description of Work Performed - 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

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
		Make/Model: R22 Serial No: 1918M Hobbs: 652.2 Reg No: N178EP Date: 5/30/2024 Work Order: 002798  Description of Work Performed - Complied with engine 50 hour inspection. Ref. Lycoming O-320 operators manual - Complied with SB 480F. Drained oil and serviced system with 6 quarts of aeroshell 100W plus. Installed new oil filter. Removed oil screen. Inspected and reinstalled - Complied with run up, leak check, and all operational checks. All work performed ref Lycoming O-320 operators manual. I certify this engine has been inspected in accordance with a 50 hour inspection and was found to be in airworthy condition  Lance Workman AP 3892417

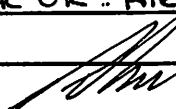
INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
	Make/Model: R22 Serial No: 1918M Hobbs: 553.7	Reg No: N178EP Date: 2/19/2024 Work Order: 002722
		
		Description of Work Performed
		- Complied with engine 50 hour inspection. Ref. Lycoming O-320 operators manual - Complied with SB 480F. Drained oil and serviced system with 6 quarts of aeroshell 100W plus. Installed new oil filter. Removed oil screen. Inspected and reinstalled. - Complied with run up, leak check, and all operational checks. All work performed ref Lycoming O-320 operators manual.
		I certify this engine has been inspected in accordance with a 50 hour inspection and was found to be in airworthy condition.
		 Lance Workman AP 3892417
	Make/Model: R22 Serial No: 1916 HOBBS: 595.1	Reg No: N4081E Date: 4/1/2024 WO#: 002754
		
		Description of Work Performed
		- Performed Lycoming SB 388C on cylinder #1. Reamed exhaust valve guide to 0.017" - Replaced push rod and tube w/ new P/Ns 15F19957-14 & 68987. Ref. Lycoming O-320-B & D Series IPC, Fig. 19 & 20 - All work above was found to be airworthy and this aircraft is released back to service.
		 Lance Workman AP 3892417

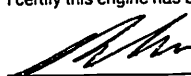
INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
	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 engine 100HR inspection. Ref. Lycoming O-320 operators manual, R22 maintenance manual applicable inspection requirements, and IAW FAR 43 App D - Complied with all applicable ADs through bi-weekly 2024-07 - Complied with SB 480F. Drained oil and serviced system with 6 quarts of aeroshell 100W Plus. Installed new oil filter. Removed oil screen. Inspected and reinstalled - Inspected fuel screens and reinstalled Ref. RHC R22 IPC Fig. 28-13 - Complied with Lycoming SI 1191A cylinder compression check. Results: #1: 78/80 #2: 74/80 #3: 76/80 #4: 72/80 - Complied with SI 1129D alternator belt tension. No adjustment needed - Complied with Lycoming SB 366C. no defects noted - Complied with CMI SB 643C. 100HR & 500HR inspection. Replaced both magnetos with repaired magneto P/N 10-600614-1, S/N E06AA029A and overhauled magneto P/N 10-600644-201, S/N L-06057. Timed magneto to 25 degrees. Ref. Lycoming Direct Drive Overhaul Manual, Sec. 4 - Replaced 5 spark plugs w/ new P/N UREM40E. Ref. Lycoming SI 1042AH - Complied with run up check, leak check, and all operational checks. All work performed, Ref. RHC R22 maintenance manual and Lycoming O-320 operators manual
		I certify this engine has been inspected in accordance with a 100HR inspection and was found to be in airworthy condition.
		 Brandon Hudson 4460080 Powerplant

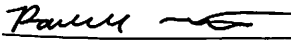
INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
11-13-2023	2609.26	REPLACES BROKEN MIXTURE CONTROL CABLE WITH NEW CABLE
ACTSO	408.56	P/N A522-3 REF RHC IPL Figure 76-5 REF RHC MM Figure 6-7
		RUN UP AIRCRAFT, OPERATION CHECK OK.. AIRCRAFT APPROVED
		FOR RETURN TO SERVICE
		PAUL THORSEN AP 3295491 
		
		Description of Work Performed
		- Complied with engine 50 hour inspection. Ref. Lycoming O-320 operators manual - Complied with SB 480F. Drained oil and serviced system with 6 quarts of aeroshell 100W plus. Installed new oil filter. Removed oil screen. Inspected and reinstalled. - Complied with run up, leak check, and all operational checks. All work performed ref Lycoming O-320 operators manual.
		I certify this engine has been inspected in accordance with a 50 hour inspection and was found to be in airworthy condition.
		 Lance Workman AP 3892417

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
		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 engine 100HR inspection. Ref. Lycoming O-320 operators manual, R22 maintenance manual applicable inspection requirements, and IAW FAR 43 App D - Complied with all applicable ADs through bi-weekly 2024-01 - Complied with SB 480F. Drained oil and serviced system with 6 quarts of aeroshell 100W Plus. Installed new oil filter. Removed oil screen. Inspected and reinstalled. - Inspected fuel screens and reinstalled Ref. RHC R22 IPC Fig. 28-13 - Complied with Lycoming SI 1191A cylinder compression check. Results: #1: 79/80 #2: 80/80 #3: 80/80 #4: 79/80 - Complied with SI 1129D alternator belt tension. No adjustment needed - Complied with Lycoming SB 366C. no defects noted - Complied with CMI SB 643C. 100HR inspection. No defects noted, timed to 25 degrees - Complied with run up check, leak check, and all operational checks. All work performed, Ref. RHC R22 maintenance manual and Lycoming O-320 operators manual
		I certify this engine has been inspected in accordance with a 100HR inspection and was found to be in airworthy condition.
		 Paul Thorsen AP 3295491

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.		DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
		Make/Model: R22 Serial No: 1916M Hobbs: 351.2 Eng Mod: 0-320-B2C	Reg No: N178EP Date: 10/5/2023 ENGTT: 2551.9 SN:L-18057-39A			
		Description of Work Performed				
		• Complied with SB 480F. Drained oil and serviced system with 6 quarts of aeroshell 100W plus. Installed new oil filter. Removed, inspected, cleaned, and reinstalled oil sump screen. Used new crush gasket and safety wired				
		• Complied with run up, leak check, and all operational checks. All work performed ref Lycoming O-320 operators manual.				
		 Lance Workman AP 3892417				
		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 engine 100HR. Ref. Lycoming O-320 operators manual, R22 maintenance manual applicable inspection requirements, and IAW FAR 43 App D				
		• Complied with all applicable ADs through bi-weekly 2023-23				
		• Complied with SB 480F. Drained oil and serviced system with 6 quarts of aeroshell 100W Plus. Installed new oil filter. Removed oil screen. Inspected and reinstalled.				
		• Inspected fuel screens and reinstalled Ref. RHC R22 IPC Fig. 28-13				
		• Complied with Lycoming SI 1191A cylinder compression check. Results: #1: 78/80 #2: 76/80 #3: 78/80 #4: 78/80				
		• Complied with SI 1129D alternator belt tension. No adjustment needed				
		• Complied with Lycoming SB 366C. no defects noted				
		• Complied with CMI SB 643C. 100HR inspection. Adjusted L/H magneto timing to 25 degrees. Ref. Lycoming SI 1437				
		• Adjusted throttle correlation to be within limits. Ref. RHC R22 MM Sec. 10 150				
		• Installed serviceable engine cooling panel P/N A305-7. Ref. RHC R22 IPC Fig. 71-19				
		• Complied with run up check, leak check, and all operational checks. All work performed, Ref. RHC R22 maintenance manual and Lycoming O-360 operators manual				
		I certify this engine has been inspected in accordance with a 100HR inspection and was found to be in airworthy condition.				
		 Randall Gunter AP PENDING				

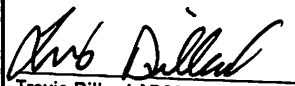
INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
	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 engine 100HR/Annual inspection. Ref. Lycoming O-320 operators manual, R22 maintenance manual applicable inspection requirements, and IAW FAR 43 App D • Complied with all applicable ADs through bi-weekly 2023-15 • Complied with SB 480F. Drained oil and serviced system with 6 quarts of aeroshell 100W Plus. Installed new oil filter. Removed oil screen. Inspected and reinstalled. • Inspected fuel screens and reinstalled Ref. RHC R22 IPC Fig. 28-13 • Complied with Lycoming SI 1191A cylinder compression check. Results: #1: 79/80 #2: 80/80 #3: 79/80 #4: 70/80 • Complied with SI 1129D alternator belt tension. No adjustment needed • Complied with Lycoming SB 366C, replaced faulty carburetor with overhauled P/N 10-5217, S/N MS0THJ02. Ref. RHC R22 MM Sec. 10.150 • Complied with CMI SB 643C, 100HR inspection. Results: 25 Deg • Complied with SB 301B, no defects noted • Complied with SB 388C, reamed cylinder #s 2 & 4 exhaust valve guides as required. Results: #1 0.016" #2 0.023" #3 0.021" #4 0.016 • Reshimmed alternator as required with A141-23 washer. Ref. RHC R22 IPC Fig. 71-23 • Repaired engine cooling panel as required with new doubler. Ref. AC 43.13-1B, Chp. 4, Sec. 4 • Complied with run up check, leak check, and all operational checks. All work performed, Ref. RHC R22 maintenance manual and Lycoming O-360 operators manual	
	I certify this engine has been inspected in accordance with a 100HR/Annual inspection and was found to be in airworthy condition.	
	 Lance Workman AP/IA 3892417	

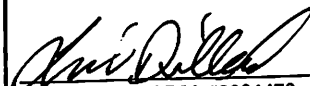
INSPECTION & MAINTENANCE RECORD

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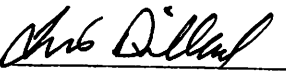
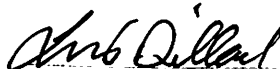
INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.					
		Reg. No.	N178EP	Make/Model	R22 Beta		
		Serial #	1918M	Engine PN	0-320-B2C		
		Hobbs	150.0	Engine SN	L-16878-39A		
		ACTT	2350.7	Engine TT	2350.7		
		ACTSO	150.0	Engine TSO	150.0	Date	1/12/2023
• Complied with engine 50 hour inspection ref Lycoming O-320 operators manual. • Complied with SB 480F. Drained oil and serviced system with 6 quarts of Phillips X/C 20W-50. Installed new oil filter. Removed oil screen. Inspected and reinstalled. • Inspected fuel screens. Cleaned and reinstalled. • Complied with Lycoming SI 1080C items for special attention • Complied with run up check, leak check, and all operational checks. All work performed ref Lycoming O-320 operators manual. I certify this engine has been inspected IAW a 50 Hour inspection and was found to be in airworthy condition.  Travis Dillard AP/IA #3804470							

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.					
		Reg. No.	N178EP	Make/Model	R22		
		Serial #	1918M	Engine PN	0-320-B2C		
		Hobbs	172.4	Engine SN	L-16878-39A		
		ACTT	2373.1	Engine TT	2373.1		
		ACTSO	172.4	Engine TSO	172.4	Date	2/4/2023
• Removed unserviceable pushrod PN/ 15F19957-14 SN/ N/A and installed serviceable PN/ 15F19957-14 IAW Lycoming O-320 Ops Manual 60297-30 Oct 2006. • Removed unserviceable pushrod shroud PN/ 68987 SN/ N/A and installed serviceable PN/ 68987 IAW Lycoming O-320 Ops Manual 60297-30 Oct 2006 • Balanced fanwheel IAW RHC R22 MM Sec 6.240 to .04 ips. • Ground run/ leak check performed with no discrepancies noted. All work performed IAW RHC R22 MM and Lycoming O-320 Ops Manual. Aircraft is approved for return to service.  Travis Dillard AP/IA #3804470							

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.	DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
		Make/Model: R22 Serial No 1916M Hobbs 60.0 ACTT 2250.7 ACTSO 60.0 Engine 0-320-B2C Reg No N178EP Date 10/17/22 EngTT 2250.7 EngTSC 60.0 S/N L-16873-39A			Make/Model R22 Serial No 1916M Hobbs 100.0 ACTT 2300.7 ACTSO 100.0 Engine 0-320-B2C Reg No N178EP Date 11/20/22 EngTT 2300.7 EngTSC 100.0 S/N L-16873-39A
Description of Work Performed			Description of Work Performed		
- Complied with engine 50 hour inspection ref Lycoming O-320 operators manual. - Complied with SB 480F Drained oil and serviced system with 6 quarts of Phillips X/C 20W-50. Installed new oil filter. Removed oil screen. Inspected and reinstalled. - Inspected fuel screens. Cleaned and reinstalled. - Complied with Lycoming SI 1080C items for special attention. - Complied with run up check, leak check, and all operational checks. All work performed ref Lycoming O-320 operators manual.			- Complied with 100 Hour inspection ref Lycoming O-320 Ops Manual and RHC R22 MM 2-410 checklist. Applicable AD's CW through bi-weekly issue 2022-24. - Complied with SB 480F Drained oil and serviced system with 6 quarts of Phillips 20W-50. Installed new oil filter. Removed oil screen. Inspected, cleaned, and reinstalled. - Inspected fuel screen. Cleaned and reinstalled. - Complied with SI 1191A cylinder compression check. Results #1 76/80 #2 79/80 #3 76/80 #4 74/80. - Complied with SI 1129D alternator belt tension. No adjustment required. - Complied with SI 1080C items for special attention. - Complied with CMI SB643B 100 hour magneto inspection. Verified magneto to engine timing. - 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 engine has been inspected IAW a 50 Hour inspection and was found to be in airworthy condition.  Travis Dillard A/P/IA #3804470			I certify this engine has been inspected IAW a 100 hour inspection and was found to be in airworthy condition.  Travis Dillard A/P/IA #3804470		

INSPECTION & MAINTENANCE RECORD

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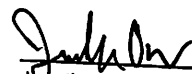
Make/Model: R22
 Serial No:1918M
 Hobbs:0.0
 ACTT: 2200.7
 ACTSO:0.0

Reg No:N178EP
 Date:8/18/22
 WO#:002211
 EngTT: 2200.7
 EngTSO:0.0



Description of Work Performed

Installed overhauled engine PN 0-320-B2C SN L-16878-39A (see Triad Aviation, Inc work order #27187 dated 7/26/2022) onto RHC R22 SN: 1918M. Performed an 100 hour inspection IAW Lycoming 0-320 Ops Manual and RHC R22 MM applicable engine inspections. Serviced engine with 6 quarts of Aeroshell 100 mineral oil. Ground run and leak check good. I certify this engine has been inspected IAW a 100 hour inspection and is in airworthy condition. Work done by Sevier County Choppers under above work order.


 Jonathon Owens IA 4004724

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
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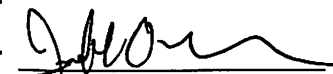
Make/Model: R22
 Serial No:1918M
 Hobbs:0.75
 ACTT:2201.45
 ACTSO:0.75

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



Description of Work Performed

Drained engine oil due with in first 5 hours of operation and serviced with 6 quarts of Aeroshell W100 straight mineral oil. Removed and replaced engine oil filter. Work performed IAW Lycoming 0-320 operators manual. Aircraft approved for return to service. Work done by Sevier County Choppers under above work order.


 Jonathon Owens IA 4004724 AP

INSPECTION & MAINTENANCE RECORD

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TRIAD AVIATION, Inc. certifies that this engine has been disassembled, inspected, and overhauled to manufacturer's overhaul manual new limits. Engine tested in accordance with recommended procedures and is approved for return to service. All applicable A.D. Notes are complied with at the time of overhaul. Pertinent details of this work are on file at this repair station under work order # 27187

DATE 07-26-2022

MAKE LYCOMING

MODEL O-320-B2C

S/N L-16878-39A

ENGINE TOTAL TIME 2200.7

TSMOH 0.0

TBO 2000

**TRIAD
AVIATION**

Triad Aviation, Inc.
Burlington Municipal Airport
3439 South Aviation Drive
Burlington, NC 27215
336-227-1467

[Signature]
Authorized Signature

07/26/2022

Date

Test Ran Lycoming O-320-B2C Engine Serial Number L-16878-39A for 2 hours 15 minutes, RPM 2700, oil pressure 80 lbs., oil temperature 190 degrees, CHT 400. Magneto check at 2100 RPM, L 115 RPM, R 115 RPM. Compression test cylinder #1 78/80 #2 79/80 #3 79/80 #4 79/80. This engine and/or component is approved for return to service. All pertinent details on file this repair station: TRIAD AVIATION, INC. FAA REPAIR STATION# PP4R448M. WO# 27187

Signed: *[Signature]* Date: 07/26/2022



R22 Engine Accessories Installed

Description

Engine
Right Magneto
Left Magneto
Starter
Alternator
Carburetor
Oil Cooler

Part Number

0-320-B2C
BL-600644-201
BL-600614-1
B315-100-2
ALY-8520
LW-15986-70
C649-1

Serial Number

L-16878-39A
E21AA038R
E20LA104R
0507120504X
H-V121488
MS01XC01
2994

ENGINE DESCRIPTION

MANUFACTURER Lycoming MODEL 0-320-B2C

SERIAL NUMBER L-16878-39A DATE OF MANUFACTURE _____

RATED BHP _____ RPM _____ MANIFOLD PRESSURE _____

FUEL REQUIRED OCTANE/PERFORMANCE _____

REGISTERED OWNER _____

STREET NO. _____

CITY, STATE, ZIP _____

REGISTERED OWNER _____

STREET NO. _____

CITY, STATE, ZIP _____

1-12 MANUFACT
6/11 1413M

ENGINE LOG
EF5-1

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
12/20	2083.1	REMOVED & REPLACED STARTER W/ RC315-100-2 SN-0507120504X OVERHAULED UNIT REF. LYCOMING AND RHC MAINT. MANUAL JPL AP3453874

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



01/25/2021

N178EP SN:1918M ACFT TT: 2100.3 HOBBS: 2100.3 Eng TSO 2100.3

Completed 100hr/Annual Engine inspection IAW Lycoming Service Manual. Cylinder compressions tested Cylinder #1. 76/80, #2. 77/80, #3. 69/80, #4. 76/80. Adjusted both magnetos and set internal and external timing. Cleaned and inspected and tested all spark plugs. Reinstalled. CW SI 1129 Alternator belt tension adjustment. Drained oil, removed and inspected oil filter. Filled with 5 its, Phillips 20/50 oil, replaced oil filter with Tempest filter. ALL SBs and ADs are current and complied as applicable through 02/2021 Completed run up, leak check, and operational checks IAW RHC Maintenance Manual and Lycoming Manuals Results are OK Test flew aircraft, no leaks noted
I certify that this engine 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 & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
1/28/22	2161.0	REMOVED OIL, REMOVED, CUT & INSPECTED OIL FILTER, NO METAL FOUND, INSTALLED NEW TEMPEST OIL FILTER & RE-SERVICED OIL SUMP W/ 6qts 20-50 Phillips XC OIL, GROUND RUN SATISFACTORY, REF RHC & LYCOMING MAINT. MAN. JPL AP3453874
2/28/22	2200.7	Removed engine for overhaul. REF. RHC R22 Mm Sec. 6.110. A:P 3892417

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
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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 Eng TSO 1901.7

09/01/2021

Completed 100hr/Annual Engine inspection IAW Lycoming Service Manual. Cylinder compressions tested Cylinder #1. 78/80, #2. 78/80, #3. 68/80, #4. 72/80. Adjusted both magnetos and set internal and external timing. Cleaned and inspected and tested all spark plugs. Reinstalled. C/W SI 1129 Alternator belt tension adjustment. Drained oil, removed and inspected oil filter. Filled with 5 lbs. Phillips 20/50 oil, replaced oil filter with Tempest filter. ALL SBs and ADs are current and complied as applicable through 02/2021. Completed run up, leak check, and operational checks IAW RHC Maintenance Manual and Lycoming Manuals Results are OK. Test flew aircraft, no leaks noted. I certify that this engine has been inspected IAW 100hr/Annual requirements and is found to be airworthy with respect to the work performed.

Timothy P. Kneeven
FAA A&P IA 2727695

INSPECTION & MAINTENANCE RECORD

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



N178EP SN:1918M ACFT TT: 2000.3 HOBBS: 2000.3 Eng TSO 200.3

11/05/2021

Completed 100hr/Annual Engine inspection IAW Lycoming Service Manual. Cylinder compressions tested Cylinder #1. 78/80, #2. 78/80, #3. 68/80, #4. 72/80. Adjusted both magnetos and set internal and external timing. Cleaned and inspected and tested all spark plugs. Reinstalled. C/W SI 1129 Alternator belt tension adjustment. Drained oil, removed and inspected oil filter. Filled with 5 lbs. Phillips 20/50 oil, replaced oil filter with Tempest filter. ALL SBs and ADs are current and complied as applicable through 02/2021. Completed run up, leak check, and operational checks IAW RHC Maintenance Manual and Lycoming Manuals Results are OK. Test flew aircraft, no leaks noted. I certify that this engine has been inspected IAW 100hr/Annual requirements and is found to be airworthy with respect to the work performed.

Timothy P. Kneeven
FAA A&P IA 2727695

10/17/21	1950.0	DRAINED OIL, REMOVED, CUT AND INSPECTED OIL FILTER, NO METAL FOUND, INSPECTED SUMP SCREEN, INSTALLED NEW FILTER & Re
		Serviced Sump w/ 6 qts Phillips X-C 20-50 oil, ground Run
		SATISFACTORY Ref RHC MAINTENANCE MANUAL & Lycoming
		MANUAL Ref AP 3453874

12/5/21	2051.5	DRAINED OIL, Removed Cut & Inspected Oil Filter, NO METAL FOUND, INSTALLED NEW TEMPEST OIL FILTER
		AND 6 qts Phillips X-C 20-50 oil ground Run
		SATISFACTORY Ref RHC MAINTENANCE MANUAL AND Lycoming
		MANUAL Ref AP 3453874

INSPECTION & MAINTENANCE RECORD

[illegible]

INSPECTION & MAINTENANCE RECORD

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 100hr/Annual Engine inspection IAW Lycoming Service Manual. Cylinder compressions tested Cylinder #1. 25/80, #2. 77/80, #3 60/80, #4. 72/80. Removed and replaced magnetos with overhauled units from Aircraft Magneto service. Adjusted both magnetos and set internal and external timing. Cleaned and inspected and tested all spark plugs. Reinstalled. C/W SI 1129 Alternator belt tension adjustment. Drained oil, removed and inspected oil filter. Filled with 5 qts, Phillips 20/50 oil, replaced oil filter with Tempest filter. ALL SBs and ADs are current and complied as applicable through 02/2021
Completed run up, leak check, and operational checks IAW RHC Maintenance Manual and Lycoming Manuals Results are OK
Test flew aircraft, no leaks noted
I certify that this engine 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

8/6/21	1850. ^o	DRAINED OIL, REMOVED, CUT, AND INSPECTED OIL FILTER, REMOVED INSPECTION AND REPLACED SUMP SCREEN, NO METAL FOUND; INSTALLED NEW TIGHT POST OIL FILTER AND RESERVICED W/ 16 GTS PHILLIPS X-C 20/50 OIL, CROWND RUN & LEAK CHECK SATISFACTORY REF LYCOMING & ROBINSON MAINT MANUAL  183453574
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INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
4/3/21	1550.0	DRAINED OIL, REMOVED, CAT, INSPECTED OIL FILTER, CHECKED SCREEN, NO METAL FOUND. FILLED CRANK CASE W/ 6 qts Phillips X-C 20-50 OIL, INSTALLED NEW OIL FILTER, GROUND RUN SATISFACTORY REF ROBINSON & LYCOMING MAINT MANUAL R-34538744 -

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236 Lawler Dr. #4
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04/27/2021

N178EP SN:1918M ACFT TT: 1603.3 HOBBS: 1603.3

Completed 100hr/Annual Engine inspection IAW Lycoming Service Manual. Cylinder compressions tested Cylinder #1. 78/80, #2. 77/80, #3. 77/80, #4. 74/80. Adjusted both magnetos and set internal and external timing. Cleaned and inspected and tested all spark plugs. Reinstalled. C/W SI 1129 Alternator belt tension adjustment. Drained oil, removed and inspected oil filter. Cleaned oil sump screen. Filled with 5 qts, Phillips 20/50 oil, replaced oil filter with Tempest filter. ALL SBs and ADs are current and complied as applicable through 02/2021
Completed run up, leak check, and operational checks IAW RHC Maintenance Manual and Lycoming Manuals Results are OK
Test flew aircraft, no leaks noted
I certify that this engine 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 & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
5/14/21	1650.0	DRAINED OIL, REMOVED & INSPECTED OIL FILTER, CLEANED SCREEN, FILLED WITH 6 qts Phillips X-C 20-50 OIL REPLACED OIL FILTER WITH TEMPEST FILTER. COMPLETED RUN UP, LEAK CHECK & OPS CHECK REF. RHC MAINT. MANUAL & LYCOMING MANUAL, RESULTS OK. TEST FLEW A/C. NO LEAKS AT TH. ...

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



06/17/2021

N178EP SN:1918M ACFT TT: 1702.1 HOBBS: 1702.1

Completed 100hr/Annual Engine inspection IAW Lycoming Service Manual. Cylinder compressions tested Cylinder #1. 25/80, #2. 77/80, #3. 60/80, #4. 72/80. Removed and replaced magnetos with overhauled units from Aircraft Magneto service. Adjusted both magnetos and set internal and external timing. Cleaned and inspected and tested all spark plugs. Reinstalled. C/W SI 1129 Alternator belt tension adjustment. Drained oil, removed and inspected oil filter. Filled with 5 qts, Phillips 20/50 oil, replaced oil filter with Tempest filter. ALL SBs and ADs are current and complied as applicable through 02/2021
Completed run up, leak check, and operational checks IAW RHC Maintenance Manual and Lycoming Manuals Results are OK
Test flew aircraft, no leaks noted
I certify that this engine 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 & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
12/6/20	1348.5	DRAINED OIL, Removed, Cut, and Inspected FILTER & SCREEN, NO METAL FOUND, REINSTALLED NEW FILTER & SCREEN, REFILLED SUMP W/ 6 qts. Phillips X-C 20-50 GROUND RUN SATISFACTORY REF. ROBINSON R-22 MAINT. MANUAL & LYCOMING MANUAL SER. # AP 3453874

Rocket City Helicopters LLC
236 Lawler Dr. #4
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N179EP SN:1918M ACFT TT: 1399.4 HOBBS: 1399.4

01/04/2021

Completed 100hr/Annual Engine inspection IAW Lycoming Service Manual. Cylinder compressions tested Cylinder #1. 74/80, #2. 77/80, #3. 77/80, #4. 72/80 Adjusted both magnetos and set internal and external timing. Cleaned and inspected and tested all spark plugs. Reinstalled. C/W SI 1129 Alternator belt tension adjustment. Drained oil, removed and inspected oil filter. Filled with 5 qts. Phillips 20/50 oil, replaced oil filter with Tempest filter. ALL SBs and ADs are current and complied as applicable through 10/2020. Completed run up, leak check, and operational checks IAW RHC Maintenance Manual and Lycoming Manuals Results are OK. Test flew aircraft, no leaks noted. I certify that this engine 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 & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
1/30/21	1447	DRAINED OIL, Removed, Cut & Inspected OIL FILTER. NO METAL FOUND. INSTALLED NEW OIL FILTER & RESEAL SUMP W/ 6 qts. Phillips X-C 20-50. GROUND RUN SATISFACTORY. REF ROBINSON R-22 MAINT. MANUAL & LYCOMING MANUAL SER. # AP 3453874

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



N178EP SN:1918M ACFT TT: 1503.5 HOBBS: 1503.5

03/12/2021

Completed 100hr/Annual Engine inspection IAW Lycoming Service Manual. Cylinder compressions tested Cylinder #1. 25/80, #2. 77/80, #3. 60/80, #4. 72/80. Removed and replaced #1 and #3 cylinders with new Superior air parts PN SL32006W-a20P Cylinder kits, replaced baffle retainers. Adjusted both magnetos and set internal and external timing. Cleaned and inspected and tested all spark plugs. Reinstalled. C/W SI 1129 Alternator belt tension adjustment. Drained oil, removed and inspected oil filter. Filled with 5 qts. Phillips 20/50 oil, replaced oil filter with Tempest filter. ALL SBs and ADs are current and complied as applicable through 02/2021. Completed run up, leak check, and operational checks IAW RHC Maintenance Manual and Lycoming Manuals Results are OK. Test flew aircraft, no leaks noted. I certify that this engine 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 & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
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Rocket City Helicopters LLC
236 Lawler Dr. #4
Brownsboro, AL 35741



N179EP SN:1918M ACFT TT: 1200.9 HOBBS: 1200.9 ENGINE TSN 1200.9 10/02/2020

Completed Crankshaft Seal change. Removed Cowlings, Fan, Scroll, Lower bearing, flywheel and alternator belt to facilitate maintenance. Removed old nose seal, sealant and cleaned and inspected the mating surfaces. Installed new Lycoming seal PN 09-11997 using Plyobond per Lycoming service instruction 1324C. Allowed to cure, Cleaned inspected and reinstalled all items removed. Installed new Alternator Belt. PN-B173-1

Located additional leak at the #2 cylinder pushrod tube. Replaced push rod tube seals, Inspected all 8 pushrods no further damage noted.

Cylinder compressions tested 1. 76/80, 2. 0/80, 3. 78/80, 4. 78/80 Cylinder #2 showed no compression and major exhaust valve leak. Removed, inspected and replaced cylinder with NEW Superior cylinder/piston kit PN-SL32006W-A20P SN- 326WH2022572 Reinstalled exhaust, intake tube oil drain back line and pushrod tube seals.

Adjusted both magnetos and set internal and external timing. Replaced both magneto gaskets.

Cleaned and inspected and tested all spark plugs. Reinstalled.

C/W SI 1129 Alternator belt tension adjustment.

ALL SBs and ADs are current and complied as applicable through 10/2020

Completed run up, leak check, and operational checks IAW RHC Maintenance Manual and Lycoming Manuals Results are OK

Test flew aircraft, no leaks noted

I certify that this engine has been inspected IAW 100hr/300hr/Annual requirements and is found to be airworthy with respect to the work performed.

Timothy P. Kneeven
FAA A&P IA 2727695

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
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10/21/20 1249.1 Hobs DRAINED OIL, Removed, Inspected & REPLACED
OIL FILTER, Removed Inspected & REINSTALLED SECTION
SCREEN, Refilled CRANKCASE w/ 6 qts, X-C 20W50
OIL, Ground Run SATISFACTORY, JAL 8828 AP 3453874

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



N179EP SN:1918M ACFT TT: 1300.9 HOBBS: 1300.9

Completed 100hr/Annual Engine inspection IAW Lycoming Service Manual.
Cylinder compressions tested Cylinder #1. 76/80, #2. 79/80, #3. 78/80, #4. 78/80
Adjusted both magnetos and set internal and external timing.
Cleaned and inspected and tested all spark plugs. Reinstalled.
C/W SI 1129 Alternator belt tension adjustment.

ALL SBs and ADs are current and complied as applicable through 10/2020

Completed run up, leak check, and operational checks IAW RHC Maintenance Manual and Lycoming Manuals Results are OK

Test flew aircraft, no leaks noted

I certify that this engine has been inspected IAW 100hr/300hr/Annual requirements and is found to be airworthy with respect to the work performed.

Timothy P. Kneeven
FAA A&P IA 2727695

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
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ENGINE MODEL: O-320-B2C
ENGINE S/N: L-16878-39A
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
TSMOH: 91.7
HOBBS: 971.2

Engine Entries

- 7 Performed 100 hour Lycoming Engine Inspection per operators manual O-320 series.
- 8 Performed 50 hour Lycoming Engine Inspection per operators manual O-320 series. Removed oil filter, Inspected for metal particles with no defects noted. Installed new filter, drained oil, replaced with 6 qts. Aeroshell 100 plus
- 9 Performed compression check on all cylinders. checked as follows #1-74, #2-72, #3-74, #4-72, IAW Lycoming MM
- 14 Performed Lycoming Service Bulletin SB-388C exhaust valve and guide inspection. measured as follows, #1 exhaust valve .022, #2 exhaust valve .028, #3 exhaust valve .022, #4 exhaust valve .027.

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.

DATE: 8/21/2019

SIGNED:

Michael Crossland
Certified Repair Station No. HLXR728E

Work Order: 3316

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INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
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3 Sep 2020 1105.1 hobs Performed 100hr inspection per Lycoming O-320 Operators Manual + checklist section 4. Drained Eng oil out of filter + inspected for Metal, NO Discrepancies noted. Serviced w 5 qts of Aeroshell 100+ + Replaced filter w/ new. Compression checks as follows #1 72 #2 77 #3 72 #4 74. Removed and Replaced 8 Ea Spark plugs w/ new PIN UREM38E. Removed + Replaced 4 Ea intake gaskets w/ new PIN 71973. All AD's complied w/ through this date 3 Sep 20. Ground run + Lock check completed w/ no Discrepancies. I Certify N178EP SYN 1918 has been inspected IAW a 100hr inspection + was determined to be in airworthy condition with reference to the work performed above.

AP364930614

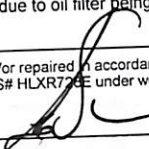
17 Sep 2020 1164.0
TSMOH 284.5

DRAINED OIL, CHANGED & INSPECTED FILTER, CHECKED SECTION SCREEN REFILLED W/ 5.5 qts AEROSHELL W100 PLUS, GROUND RUN SATISFACTORY
Jul Pl AP 3453874

INSPECTION & MAINTENANCE RECORD

DATE		TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
10 Aug 18			SB-460. Serviced with lot of Aeroshell 170
TSMOH	10.2		mineral and installed a new 48108-2. No metal
Hobbs	889.7		noted. Adjusted LH magnet to 25° BTDC.
			RH magnet was in limits. Removed, inspected and
			rotated all spark plugs. Run-up and leak checked
			OK. I certify that this engine has been
			inspected IAW an annual inspection and
			was determined to be in an airworthy condition.
			By Kenneth W Keen Jr. AIP 5034460 IA
			863-885-2796 Roterwings@GMAIL.com
Aug 15, 18	Hobbs 915.1		Oil change, Aeroshell 15W50 5Qts. CH 48108-1 Filter changed
	TSMOH 35.6		No leaks. PM cert 43484813

INSPECTION & MAINTENANCE RECORD

DATE		TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.	
ENGINE MODEL: 0-320-B2C ENGINE S/N: L-16878-39A REG. NO: N178EP WORK ORDER: 3253		 Helicopter Services, Inc. Repair Station No. HLXR728E 19931 Steubner Airline Rd. Spring, TX 77379 Phone: 281-370-4354	DATE: 5/15/2019 A/C TSN: 961.2 ENG TT: TSMOH: 81.7 HOBBS: 961.2	
Engine Entries 1 Complied with Lycoming 50 hour Inspection in accordance with Lycoming operators manual 0-320 series section 4 periodic inspection. Installed new filter P/N AA48108-2 and serviced with Aeroshell 100W Plus oil. Cut open old filter and inspected with no metal noted. Ground ran aircraft and leak checked with no defects noted. 2 Customer reported right rear valve cover gasket leaking. Removed old gasket and installed new gasket p/n LW75906 IAW Lycoming 0-320 Series MM. 3 Removed right hand magneto for maintenance due to oil filter being over tightened. Re-installed same magneto and verified magneto timing. All work done IAW Lycoming 0-320 Series MM.				
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. 3253, Dated 5/15/2019.				
DATE: 5/15/2019		SIGNED:  Brian R Deskin Certified Repair Station No. HLXR728E		Work Order: 3253 Printed by EBis 3 (datcomedia.com)

INSPECTION & MAINTENANCE RECORD		
DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
MAY 8 '17		Performed 100hr / Annual engine inspection per Lycoming Operator's Manual sec. 4.4 / 5.1b and R22 MM. Compression was tested and results were #1 <u>79/80</u> #2 <u>79/80</u> #3 <u>70/80</u> #4 <u>77/80</u> . Oil was drained, filter replaced, suction screen cleaned and reinstalled, engine serviced with 6 quarts 20W50. The following TCM and Lycoming Service Bulletins along with Service Instructions were complied with; SB-480E, SB-366B, SI1080C, SI-1129B, SB-636, SB-643B, SB653, SB663A. Engine was ground run and checked for leaks, none found at this time and approved for return to service. Details are on file at Robinson Helicopter Co. 2901 Airport Dr, Torrance, CA 90505 under repair order Number <u>131009</u> . Robinson Helicopter Co. FAA Repair Station YV3R012M. Authorized Signature <u>[Signature]</u>
AUG 22 '17		Complied AD-2017-16-11 and inspected connecting rods per SB-632B. Complied with SI 1191A Cylinder Compression; Cyl.#1. 76/80. Cyl.#2. 76/80, Cyl.#3 77/80 nd Cyl.#4 78/80. Engine was round run and checked for leaks, none found at this time and approved for return to service. Details are on file at Robinson Helicopter Co. 901 Airport Drive, Torrance Ca. 90505 under R.O.# <u>146870</u> . Authorized Signature <u>[Signature]</u> FAA Repair Station YV3R012M.

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
		N178EP R-22 S/N 1918M O-320-B2C S/N L-16878-39A HOBBS 889.1 ETSO 10 March 23, 2018 Remove engine Preservative and Desiccants Plugs; Installed Spark Plugs; Change Oil And Filter; Service with 6 Aeroshell 100; 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 <i>DAP 2823176</i>
6 Aug 18		Performed annual inspection by referencins FAR
Hobbs:	889.7	113 appendix D. Alternator belt tension tested per
Engine	10.2	Lyc SI 1129. Cylinder compressions tested per
TSMCH		SI-1191 All 78/100 cc better. Changed oil per Lyc.

INSPECTION & MAINTENANCE RECORD

INSPECT

INSPECTION OR MAINTENANCE PERFORMED
AGENCY & CERTIFICATE NO.



DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
		N178EP R-22 S/N 1918M O-320-B2C S/N L-16878-39A HOBBS 866.5 ETSO 227.5 June 30, 2014 Preformed Annual Inspection As Per Lycoming Operators Manual O-360/ O-320 Series Section 4-1 to 4-6 and SI1080B: Change Oil and Clean Filter: Take Oil Sample; Service With Aeroshell 15w-50 and Lycoming Additive LW-16702; Replace Induction Air Filter P/N A771-1; Remove and Clean Spark Plugs; Rotate Spark Plug Position; Compression Check Cyl1-72; Cyl2-72; Cyl3-78; Cyl4-76; Installed Seal Tape on Exhaust Clamps P/N A0701-1; Replace On Cylinder #3 Intake Gaskets and Seal; Preformed Engine Run Up Satisfactory: No Fuel Or Oil Leaks Noted At This Time; Preformed S.B. 480E Oil Filter Insp. 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 <i>AP 2823176 TA</i>
4/22/14	T.T. 879.5	
	T.S.O. 245.5	
		THIS ENGINE WAS REMOVED FROM ROTORCRAFT S/N: 1918M FOR OVERHAUL . DETAILS ARE ON FILE AT ROBINSON HELICOPTER CO. 2901 AIRPORT DRIVE, TORRANCE, CA 90505 UNDER REPAIR ORDER NUMBER: 131009 FAA CERTIFIED REPAIR STATION: YV3R042M
		AUTHORIZED SIGNATURE: <i>[Signature]</i>

ROBINSON
HELICOPTER COMPANY

2901 Airport Drive, Torrance, California 90505

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

Date: 01 September 2016
Engine Model: Lycoming O-320-B2C
Serial Number: L-16878-39A
Total Time: 879.5
Crankshaft S/N: V22840
Repair Order: 131009.26

This engine has been overhauled in accordance with Lycoming Overhaul Manual Direct Drive Engine Part Number 60294-7, run in and tested as prescribed by Lycoming specifications and Federal Aviation Regulations. Applicable FAA Airworthiness Directives and Service Bulletins have been complied with at time of overhaul. Details are on file at Robinson Helicopter Company 2901 Airport Dr, Torrance, CA 90505, U.S.A.

FAA CRS YV3R012M, "Certifies that the work specified, except as otherwise specified, was carried out in accordance with EASA 145 and in respect to that work, the Engine is considered ready for release to service.

Authorized Signature,

[Signature]
Chris Sennett

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
		N178EP R-22 S/N 1918M O-320-B2C S/N L-16878-39A HOBBS 844.7 ETSO 205.7 April 27, 2012 Preformed Annual Inspection As Per Lycoming Operators Manual O-360/ O-320 Series Section 4-1 to 4-6 and SI1080B; Change Oil and Clean Filter; Take Oil Sample; Service With Aeroshell 15w-50 and Lycoming Additive LW-16702; Replace Induction Air Filter P/N A771-1; Remove and Clean Spark Plugs; Rotate Spark Plug Position; Compression Check Cyl1-70; Cyl2-75; Cyl3-79; Cyl4-76; Preformed Engine Run Up Satisfactory; No Fuel Or Oil Leaks Noted At This Time; Preformed S.B. 480E Oil Filter Insp. All Work Preformed IAW M.M. END. <i>PH Day 583-75-9886</i> <i>W. J. [Signature]</i> <i>25800627A</i>
10/26/12	851.2	Removed and Install C.H. Magneto P/N 10600644-24 S/N E05HA537 L/4. P/N BL-600614-1 S/N E11GA003A Preformed SPS Check and Found OK. <i>AP 282312A</i> <i>[Signature]</i>

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
		N178EP R-22 S/N 1918M O-320-B2C S/N L-16878-39A HOBBS 857.6 ETSO 218.6 April 9, 2013 Preformed Annual Inspection As Per Lycoming Operators Manual O-360/ O-320 Series Section 4-1 to 4-6 and SI1080B; Change Oil and Clean Filter; Take Oil Sample; Service With Aeroshell 15w-50 and Lycoming Additive LW-16702; Replace Induction Air Filter P/N A771-1; Remove and Clean Spark Plugs; Rotate Spark Plug Position; Compression Check Cyl1-71; Cyl2-78; Cyl3-75; Cyl4-72; Preformed Engine Run Up Satisfactory; No Fuel Or Oil Leaks Noted At This Time; Preformed S.B. 480E Oil Filter Insp. 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 <i>AP 282312A</i> <i>[Signature]</i>

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
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Date: 02/26/10
Engine Time: 0817.1
Engine TSO: 0817.1

1. C/W Lycoming SB 480E Oil Change, Services with Aeroshell 15 W 50 Semi Synthetic.
2. I Certify that this Engine has been Inspected IAW Annual Inspection Robinson 2.400 Checklist was found to be in Airworthy Condition. Compression Check (1) 80-74 (2) 80-74 (3) 80-76 (4) 80-74.

SIGNATURE Orlando Colon Orlando Colon A&P 581067696 IA
DATE: February 28, 2010 Isla Grande Airport San Juan, PR 00907.

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
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N178EC R-22
S/N 1918M
O-320-B2C S/N L-16878-39A
HOBBS 832.8 ETSO 193.8
April 14, 2011
Preformed Annual Inspection As Per Lycoming Operators Manual
O-360/ O-320 Series Section 4-1 to 4-6 and SI1080B; Change Oil
and Filter; Take Oil Sample; Remove and Clean Spark Plugs;
Rotate Spark Plug Position; Compression Check Cyl1-70; Cyl2-74;
Cyl3-76; Cyl4-75; Replace Carburetor Heat Scoop P/N A568-2;
Replace All Exhaust Gaskets and Hardware; Preformed Engine
Run Up Satisfactory; No Fuel Or Oil Leaks Noted At This Time;
Preformed S.B. 480E Oil Filter Insp. All Work Preformed IAW
M.M. END.

Walt Davis 25804627A

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
HELI-TRONICS INC. South Ramp, Lot 3-A Isla Grande Airport San Juan, PR 00907 V1TR062X LOG ID# 372 31-January-2008 WO# 389 N178EP S/N 1918M ROBINSON Mariener R22		

Pg 1 / 1

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

Engine
 Complied with 100 Hour Annual Inspection. Carburetor bowl drain plug removed, bowl cleaned, inspected and plug re-installed and safetied. Both Magnetos removed, points inspected, lubricated, cam wick with engine oil, Magnetos re-installed, and timed. Spark plugs removed, cleaned, inspected, and re-installed upper to lower and lower to upper. Carburetor Air Filter removed and replaced with new, p/n:771-1 Rev C Installed.

Compression check: 1) 80/70, 2) 80/75, 3) 80/75, 4) 80/75.

Owner advises oil screen is normal on oil changes.

Rotorcraft ground run for operational and leak check and found satisfactory. Flight check made, Engine parameters normal.

I certified that this Engine 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

HELI-TRONICS, INC.



VITROG2X
 Certificate #

18 JAN 2008
 Date

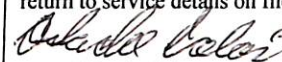
INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
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Aircraft Type: Robinson 22	Aircraft S/N: 1918M N178EP	Aircraft Hobbs: 799.1 hrs	Hour Meter: 799.1 hrs
Eng. Model: Lycoming O-320-B2C	Eng. S/N: L-16878-39A	Engine tach time 799.1 hrs	Date: 2/18/09

C/W with 100 hrs/Annual Inspection as per Section 2.400 and service engine per Lycoming operator Manual. Perform oil change, removed, cleaned oil screen, found ok at this time. Service engine with Aeroshell 15W50 Premium Semi synthetic. Removed, Clean, Inspect and re-install spark plugs. Remove, Clean, Inspect and re-install fuel bowl. Check Magnetos time. C/W Compression check Cyl #1: 72/80, Cyl #2: 73/80, Cyl #3: 76/80, Cyl #4: 77/80

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

A&P 581067696 IA

INSPECTION & MAINTENANCE RECORD

[illegible]

INSPECTION & MAINTENANCE RECORD

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

HELI-TRONICS INC. South Ramp, Lot 3-A Isla Grande Airport San Juan, PR 00907 V1TR062X
LOG ID# 164 18-November-2005 WO# 179 AC TT 707.0
N178EP S/N 1918M ROBINSON Mariener R22

Pg 1 / 1

N178EP T.T.:707.0

Engine

Complied with 100 hour/Annual inspection using manufacturers checklist. Engine compression test: #1
80/73; #2 80/75; #3 80/74; #4 80/74.

Rotorcraft ground run for operational and leak check made. 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

4825
JNV1TR062X
Certificate #11/18/05
Date

INSPECTION & MAINTENANCE RECORD

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

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. YCYR672X

Beechcraft

Hawker



N178EP

HOBBS: 725.3

S/N:1918M

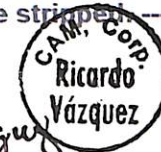
ENGINE LOG ENTRY

INSPECTION

MAINTENANCE RELEASE

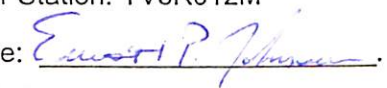
The aircraft,airframe,aircraft engine, propeller or appliance identified above was repaired
and inspected in accordance with current Regulations of the Federal Aviation Administration
and is approved for return to service.Pertinent details of the repair are on file at this repair
station under W/O #. 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:



Work Order #06-0403-00

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
10-17-01	618.2	I certify That This Engine has been Inspected I.A.W. 100hr / Annual Inspection and Found Airworthy. Air Filter R & R w/ New. Lower Spark Plugs R & R w/ new. Compression Test: #1 ⁷⁵ / ₈₀ #2 ⁷² / ₈₀ #3 ⁷⁶ / ₈₀ #4 ⁷⁵ / ₈₀ . Engine Ground Run For Operational & Leak Check. Flight Check made, all Parameters Found Normal. This Engine is Release To Return To Service. 10-17-01 T.T. 618.2  AIP I.A. 582984825
6/19/03	0639.0	This engine was removed from rotorcraft S/N 1918M for overhaul. Details are on file at Robinson Helicopter Company, 2901 Airport Drive, Torrance, CA 90505 under work order No. 34230. FAA Certified Repair Station: YV3R012M Authorized Signature: 

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL	INSPECTION OR MAINTENANCE PERFORMED
		ROBINSON HELICOPTER CO. 2901 AIRPORT DRIVE TORRANCE, CA 90505

This engine has been overhauled in accordance with the applicable manufacturer's Overhaul Manual and other FAA-approved procedures. Applicable Federal Aviation Administration Airworthiness Directives have been complied with. All parts have been inspected and accessories are either new or newly overhauled. This certifies that the work specified, except as otherwise specified, was performed in accordance with current FAA Airworthiness Regulations and JAR 145 and, in respect to that work, the engine is considered ready for release to service.

Engine Model: O-320-B2C

Serial Number: L-16878-39A

Total Time: 639.5 Hours

Work Order: 34230.3

Date: 29 September 2003

Authorized Signature



Robinson Helicopter Company

FAA-Certificated Repair Station YV3R012M

JAA Acceptance Certificate 5073

INSPECTION & MAINTENANCE RECORD

[illegible]

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
12 Nov 00	591.6	I certify That This Engine has been Inspected
T.S.N.	591.6	I.A.W. 100hr / Annual Inspection AND Found
		Airworthy. Both MAGNETOS Removed, Broken Points
		Inspected AND Huber Cam Lobe Wick. Re-Installed
		AND TIMED. C/W SB 388B Valve Train Inspection.
		Exhaust Guide Valve Wear Within Limits.
		Exhaust Valve Guide #1 .020" #2 .025" #3 .026" #4 .020"
		Compression TEST: #1 80/75 #2 80/72 #3 80/78 #4 80/75.
		Spark Plugs Cleaned & Re-Installed.
		This Engine Released For Safe Return To Service.
		<i>JB</i> C ho - AIP, I.A. 582984825
5-18-01	610.2	Oil drained, filled with Shell-Semi-Synthetic 15W-50
T.S.N.	610.2	and 6.002 engine oil Additive LW-16702 Added
		at this time. Also oil strainer was removed and
		no foreign particles found at this time. Installed strainer
		and performed op's check and no leak found as per AMM.
		<i>Phil O. R. G.</i> 598098517 (AFA)

INSPECTION & MAINTENANCE RECORD

[illegible]

I certify that this Engine has been
inspected in accordance with an 100% overhaul
inspection and was determined to be in
airworthy condition.

airworthy condition.

Date 08-27-97 Total Time 477.7 Hobbs 477.7

Signed Emile Dahl 1876028

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
04/13/98	509.5	Oil drained, filled with Shell Semi-Synthetic 15W-50 and 6.0 Fl.oz. engine oil additive LW-16702. Oil strainer remove & check clean - no foreign particles found. Eduard O. Rung, 598-09-8517
08/26/98	524.3	I certify that this Engine has been Inspected Compression Test: I.A.W. 100 hr / ANNUAL Inspection and Found #1 80/78 Airworthy. Air Cleaner and Spark Plugs R & R w/NEW. #2 80/76 Rocker Box Return Line Hoses R & R w/NEW. ROTONCRAFT #3 80/78 was ground run for operational and leak check, #4 80/76 Flight check made and found satisfactory. Eduard O. Rung - ACP/IA. 582984825
5/12/99		Oil drained, filled with Shell Semi-Synthetic 15W-50 and 6.0 Fl.oz. engine oil additive LW-16702. Oil strainer was remove & clean - no foreign particles found. Eduard O. Rung, 598-09-8517

I²C h - ACP / IA.582984825

Oil drained, filled with Shell Synthetic 15W-50
and 6.0 Fl-oz. engine oil additive LW-16702. Oil
strainer was remove & clean - NO fuering particles found.
Phil O. R. Phil, 598-09-8517
(RED)

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
11-7-95	380.6	I certify That This Engine has been Inspected I.A.W. 100 hr / ANNUAL AND Found to be in Airworthy Condition. Spark Plugs R&R w/Reconditioned. Air cleaner R&R w/new. Oil Drained, Screen Inspected and Serviced w/Aeroshell 15/50. Compression Check: #1 ⁸⁰ / ₇₆ #2 ⁸⁰ / ₇₄ #3 ⁸⁰ / ₇₈ #4 ⁸⁰ / ₇₄ J D C - A&P, I.A. 582984825
03/15/96	408.6	Oil change with Shell Semi Synthetic 15w-50 AND oil additive. Elil O.R. fil P-598-09-8517

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
7-15-96	422.2	I certify That This Engine was Inspected I.A.W. 100 hr / ANNUAL Inspection and Found Airworthy. Detailed Hill Aviation Discrepancy List DATED 7-3-96. BOTH MAGNETOS R&R AND HARNESSES R&R w/ NEW DUE TO INSTALLATION of GOVERNOR UPGRADE KIT Oil Drained, Screen Inspected and cleared and Serviced w/ Aeroshell Semi-Synthetic 15w/50 and by (adding) Additive LW16702. Compression TEST: #1 ⁷⁵ / ₈₀ #2 ⁷⁶ / ₈₀ #3 ⁷³ / ₈₀ #4 ⁷⁶ / ₈₀ . Rotorcraft was ground Run AND TEST Flight Performed. Operational AND Leak Check Satisfactory. J D C - A&P, I.A. 582984825
5- -97	462.5	Oil change with Shell Semi-Synthetic 15w-50 AND oil Additive Elil O.R. fil P-598-09-8517 LW16702

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
		I CERTIFY THAT THIS <i>Engine</i> HAS BEEN INSPECTED IN ACCORDANCE WITH A <i>100 hr / Annual</i> INSP. AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION.
		DATE- <i>10/11/94</i> AIRCRAFT T.T. <i>307.9</i>
		ENGINE TIME- <i>307.9</i>
		MECHANIC- <i>Engine Hall</i> CERT. NO. <i>1876028</i> :
<i>10/05/94</i>	<i>307.9</i>	Removed T/R gearbox S/N 2415 and send to CAU Air inc. for compliance with AD 94-17-07
<i>10/07/94</i>	<i>307.9</i>	Reinstalled T/R gearbox S/N 2415 I.A.W. R.H.C. maint manual Flight + Ops. check O.K. <i>Subor Djj</i> HP 583576731 Entered write up in error see airframes logbook. <i>Subor Djj</i> <i>HP 583576731</i>

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
<i>10-05-94</i>	<i>307.9</i>	
<i>01/10/94</i>	<i>328</i>	Oil change with Shell semi synthetic 15-50 and oil additive <i>G.U.D.L</i>
<i>02/03/95</i>	<i>335.0</i>	Complied with S/B S/B, inspection of oil pressure bypass valve, Installed Serviceable Valve Assy. Leak check Required for this and for oil change. <i>Engine Hall 1876028</i>
<i>02/07/95</i>	<i>337.0</i>	Oil change with Shell semi synthetic 15-50 and oil additive <i>G.U.D.L</i>
<i>03/16/95</i>	<i>340</i>	Installed New Magneto S/N ^{<i>9410004</i>} <i>9510007</i> B/H side Eng Run up ok <i>Phil O.R.</i> <i>578-09-8517</i>
<i>8/10/95</i>	<i>370.6</i>	Oil change with Shell Semi Synthetic 15-50 and oil additive <i>G.U.D.L</i>

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
01/28/93	162	Oil change mobil 1, clean spark plugs, check battery. G.V.L.
06/01/93	198	Oil change mobil 1, clean air filter G.V.L.
80/18 80/19 80/18 80/18 9/10/93		I CERTIFY THAT THIS Engine HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 HR Annual INSPECTION AND WAS DETERMINED TO BE IN A. R. CONDITION. DATE-09/10/93 HOURS T.T. 220.0 ENGINE TIME- 220.0 MECHANIC- Eugene Hall CERT. NO. 1876028
		oil use Mobil 1 S.V.
01/25/94	248	Oil change mobil 1 w/additive clean air filter & spark plug, check battery G.V.L.
04/05/94 296.4	274 296.4	oil change mobil 1 with additive Installed New Magneto S/N 51050049 (G.V.L.) R/H Side this Eng Run up OK M.K.

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
9/15/94	303.3	Completed so he check - Oil drained, filled with 5.5 Qts Mobil AV.1 Synthetic 20W50 And 6.2 FL. OZ ENGINE OIL additive LW-16702. OIL-STRAINER RE- MOVED & check clean - NO foreign particles found. - Removed & installed (6) OVERHAULED REM 40E SPARK- plugs. BATTERY check. SERVICED. AIR filter cleaned. Visual check of engine O.K. Checked & lubed controls. Engine was run and checked for leaks - O.K. This operation performed following Robinson Service Manual Giovanni G. Schott A&P 584424494 I.A.
10-07-94	307.9	Removed 1/4 mag. (shaft seal leak) & installed new magnets S/N 93110007. A&P 583575734

INSPECTION & MAINTENANCE RECORD

DATE

TOTAL
TIME

INSPECTION OR MAINTENANCE PERFORMED,
AGENCY & CERTIFICATE NO.

09/11/91

45

oil change with shell mineral oil

02/01/92

92.4

Performed in This Eng. 100 hrs. Insp. in accordance with Lycoming maintenance manual. Inspected & Cleaned oil Filter, Inspected and Cleaned The Spark plugs. Cylinder Compression Tested #1 80/80 #2 79/80 #3 80/80 & #4 80/80. Prior To This Inspection eng. oil was changed by owner, 4 hrs before This Inspection. I certify that This eng. was found in airworthy condition. *W. H. Vann Dain App 083420138*

07/12/92

132

oil change mobil 1 20-50 S.U.V

9/24/92

Date

Sept 22, 1992

I certify I have inspected this *Engine* in accordance with a *FLUVOO* and found it in airworthy condition. Tach reading *132.0* Engine time *132.0* Aircraft time *132.0*

AI

A&P-130951

ENGINE DESCRIPTION

MANUFACTURER Textron-Lycoming MODEL O-320-B2c
SERIAL NUMBER L-16878-39A DATE OF MANUFACTURE April 19, 1991

RATED BHP _____ RPM _____ MANIFOLD PRESSURE _____

FUEL REQUIRED OCTANE/PERFORMANCE 100 LL

REGISTERED OWNER _____

STREET & NO. _____

CITY, STATE, ZIP _____

REGISTERED OWNER _____

STREET & NO. _____

CITY, STATE, ZIP _____