# ENGINE LOG EF5-1

|  | INSPECTION & MA                                       | AINTENANCE RECORD   |
|--|---|---|
| TOTAL                                    |   | INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.  |
| Make/Model R22 Senal No 1918 Hobbs 850 8 | Reg No N178EP<br>Date 11/01/2024<br>Work Order 002956 | GEVIER COUNTY CHOPPERS  |
|  | Desci   | ription of Work Performed   |
| filter Removed oil Complied with run     | up, leak check, and all operational checks            | 20 Operator's Manual n 6 quarts of aeroshell 100W plus. Installed new oil . All work performed ref Lycoming 0-320 operators thour inspection and was found to be in airworthy |
| Lance Workman A                          | NP 3892417  |   |
|  |   |   |
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| DATE | TOTAL<br>TIME  |  | INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.                         |
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|      |  |  |  |
|      | Make/Model. R22<br>Serial No: 1918M<br>Hobbs: 801.4<br>ACTT: 3002.1<br>ACTSO: 801.4  | Reg No: N178EP<br>Date: 10/17/2024<br>WO#: 002937<br>EngTT: 3002.1<br>EngTSO: 801.4  | SEVIER COUNTY CHOPPERS   |
|      | _  | Descripti  | on of Work Performed   |
|      | Complied with SB 480F. D     Inspected and reinstalled.     Inspected fuel screens an     Complied with Lycoming \$     Complied with SI 1129D a     Complied with CMI SB 64     Complied with CMI SB 64     Complied with run up che operators manual | Prained oil and serviced system with 6 in direinstalled Ref. RHC R22 IPC Fig. 2: SI 1191A cylinder compression check. In a state of the size of the si | Results: #1: 68/80 #2: 70/80 #3: 68/80 #4: 72/80 (cold) ithin limits for used belt g |
|      |  | inspected in accordance with a 100HF   | inspection and was found to be in airworthy condition.                               |
|      | Tommy Garst AP 358129  | 93   |  |

|               |  | INCDECTION S. N.                          | IAINTENANCE RECORD  |              |                                    |  |
|---------------|--|---|---|--------------|------------------------------------|--|
|               |  | INSECTION & IA                            | MILLIPIATION  |              | TOTAL                              | INSPECTION OR MAINTENANCE PERFORMED  |
| r (Capacita)  |  |   | INSPECTION OR MAINTENANCE PERFORMED   | DATE         | TIME                               | AGENCY & CERTIFICATE NO.   |
| WASSER PRODUC | TOTAL  |   | AGENCY & CERTIFICATE NO.  |              |                                    | Reg No: N178EP   |
| DATE          | TIME   |   |   | _            | Make/Model R22<br>Serial No. 1918M | Date 09/09/2024  |
|               | - 1  |   |   |              | Hobbs 753 9                        | Work Order 002909  |
|               | Make/Model: R22                                  | Reg No: N178EP                            |   | <del>-</del> |                                    | GEVIER COUNTY CHOPPERS   |
|               | Serial No: 1918M                                 | Date: 8/21/2024                           |   |              |                                    |  |
|               | Hobbs: 701.4                                     | WO#: 002883<br>EngTT: 2902.1              | SEVIER COUNTY CHOPPERS  |              | 1                                  |  |
|               | ACTT: 2902.1                                     | EngTSO: 701.4                             | , 244   |              |                                    |  |
|               | ACTSO: 701.4                                     | Elig130: 701.4                            |   | _            | 1                                  | Description of Work Performed  |
|               |  |   |   |              | <del></del>                        |  |
|               | i)   | D :-1                                     |   |              | 1                                  | o and Coordar's Manual   |
| 32            |  | Descript                                  | ion of Work Performed   |              | Complied with er                   | ingine 50 hour inspection. Ref. Lycoming 0-320 Operator's Manual B 480F. Drained oil and serviced system with 6 quarts of aeroshell 100W plus. Installed new oil   |
|               | rg.  |   |   |              | Complied with S     Star Removed 6 | oil screen Inspected and reinstalled   |
| _             |  |   |   |              | · Complied with ru                 | oil screen Inspected and reinstalled<br>un up, leak check, and all operational checks. All work performed ref Lycoming 0-320 operators   |
| <u></u>       | Complied with engine 1                           | 00HR/Annual inspection. Ref. Lycoming     | 0-320 operators manual, R22 maintenance manual applicable inspection        |              | l manual                           |  |
|               | requirements, and IAW                            | cable ADs through bi-weekly 2024-16       |   |              |                                    | has been inspected in accordance with a 50 hour inspection and was found to be in airworthy  |
| _             | <ul> <li>Complied with SB 480F</li> </ul>        | Drained oil and serviced system with 6    | quarts of Aeroshell 100W Plus. Installed new oil filter. Removed oil screen |              | condition                          | nas been inspected in deep carry   |
|               | Inspected and reinstall                          | ed.                                       |   |              | Condition                          |  |
|               | <ul> <li>Inspected fuel screens</li> </ul>       | and reinstalled Ref. RHC R22 IPC Fig. 3   | 28-13<br>Results: #1: 72/80 #2: 78/80 #3: 76/80 #4: 76/80                   |              |                                    |  |
|               | <ul> <li>Complied with SI 1129</li> </ul>        | D alternator belt tension. Adjusted to be | within limits for used belt   |              | 121                                |  |
|               | <ul> <li>Complied with Lycomir</li> </ul>        | ng SB 366C, no defects noted              |   |              | Lance Workman                      | AP 3892417   |
|               | Complied with CMI SB     Complied with sup up a  | 643C, 100HR inspection. Results: 25 D     | eg  |              | Lance Workman                      | The state of the s |
|               | operators manual                                 | check, leak check, and all operational ch | ecks. All work performed, Ref. RHC R22 maintenance manual and Lycoming      | 7330         |                                    | (S. C.) (S. C.) (S. C.) (S. C.)  |
|               |  |   |   | Dw           |                                    |  |
|               | <ul> <li>I certify this engine has be</li> </ul> | een inspected in accordance with a 100H   | R/Annual inspection and was found to be in airworthy condition              |              | 1 1                                | AND THE PROPERTY OF THE PROPER |
|               | and  |   |   |              |                                    |  |
| <b>———</b>    | - 1111   |   |   |              | 1 1                                |  |
|               | Lance Workman AP/I/                              | 3892417                                   |   |              | -                                  |  |
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|      |               | INPLECTION & MAINTENANCE VECOUR  |  |
|------|---------------|--|--|
| DATE | TOTAL<br>TIME | INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.   |  |
|      |               |  |  |
|      | Seria         | Reg No: N178EP al No: 1918M  |  |
|      |               | 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   |  |
|      | -             |  |  |
|      |               | ance Workman AP 3892417  |  |
|      | Ser           | ake/Model: R22 Reg No: N178EP pral No: 1918 Date: 5/6/2024 CTT: 623.3 Work Order: 002782   |  |
|      |               | SEVIER COUNTY CHOPPERS   |  |
|      |               | 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 |  |
|      | <u> </u>      | Paul Thorsen AP 3295491  |  |

|               | Se  | I<br>ike/Model: R22<br>rial No. 1918M<br>bbs. 652.2                           | Reg No: N178EP<br>Date 5/30/2024<br>Work Order: 002798                     | SEVIER COUNTY CHOPPERS   |
|---------------|-----|---|--|--|
| $\rightarrow$ |     |   |  |  |
|               |     |   | t  | Description of Work Performed  |
|               |     | Complied with SB 4<br>filter Removed oil se<br>Complied with run u<br>manual. | creen. Inspected and reinstalled.<br>p. leak check, and all operational ch | 0-320 operators manual with 6 quarts of aeroshell 100W plus. Installed new oil ecks. All work performed ref Lycoming 0-320 operators |
|               |     | Addition  LUL  nce Workman AP   |  |  |
|               | Lai | nce workman AP  | 3692417  |  |
|               |     |   |  |  |
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| Serial No. 1918M Hobbs: 553.7  Date: 2/19/2024 Work Order: 002722  Servier Country Choppers  Description of Work Performed  - Compiled with engine 50 hour inspection. Ref. Lycoming 0-320 operators manual - Compiled with sist 480°. Drained oil and serviced system with 6 quarts of aeroshell 100W plus. Installed new oil filter, Removed oil screen. Inspected and reinstalled Compiled with run up, leak check, and all operational checks. All work performed ref Lycoming 0-320 operators manual.  Learlity this engine has been inspected in accordance with a 50 hour inspection and was found to be in airworthy condition.  - Compiled with segine has been inspected in accordance with a 50 hour inspection and was found to be in airworthy condition.  - Compiled with Stage of the service of    |   |
|--|---|
| Serial No. 1918M Date: 2/19/2024 Hobbs: 553.7  Description of Work Performed  Description of Work Performed  Description of Work Performed  Compiled with engine 50 hour inspection. Ref. Lycoming 0-320 operators manual Compiled with SB 480° Drained oil and serviced system with 6 quarts of aeroshel 100W plus. Installed new oil filter. Removed oil screen, Inspected and reinstalled.  Compiled with un 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 alimorthy condition.  Description of Work Performed  Compiled with services and services services services and services service | INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.  |
| Complied with engine 50 hour inspection. Ref. Lycoming 0-320 operators manual Complied with segment 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  Complied with segment has been inspected fuel screens and reinstalled in Inspected fuel screens and reinstalled in Inspected with Lycoming SI 1191A cylinde. Complied with Lycoming SI 1191A cylinde. Complied with Lycoming SI 366C, no def. Complied with Lycom | No. N178EP - 4/10/2024 - 002760 TT: 2802.2 TSO: 601.5   |
| Complied with run up, leak check, and all operational checks. All work performed ref Lycoming 0-320 operators  and IAW FAR 43 App D  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  Complied with SB 480F. Drained oil and s Inspected and reinstalled.  I certify this engine has been inspected in accordance with a 50 hour inspection and was found to be in airworthy  Complied with SB 480F. Drained oil and s Inspected and reinstalled.  I certify this engine has been inspected with SB 480F. Drained oil and s Inspected and reinstalled.  I complied with run up check is and overhaulted magneto P/N 10-600644.  Replaced 5 spark plugs w/n ew P/N UREI.  Serial No: 1916  Beg No: N4081E  Date: 41/12024  Wor: 002754  I certify this engine has been inspected in accordance with a 50 hour inspection and was found to be in airworthy.  Complied with 12024  I certify this engine has been inspected in accordance with a 50 hour inspection and was found to be in airworthy.  Complied with 12024  I certify this engine has been inspected in accordance with a 50 hour inspected in accordance with a 50 hour inspected oil and s Inspected and reinstalled.  I certify this engine do and so inspected in accordance with a 50 hour inspected and reinstalled.  I certify this engine has been inspected in accordance with a 50 hour inspected and reinstalled.  I certify this engine has been inspected in accordance with a 50 hour inspected and reinstalled.  I certify this engine has been inspected in accordance with a 50 hour inspected oil and s inspected and reinstalled.  I certify this engine has been inspected in accordance with a 50 hour inspected and reinstalled.  I certify this engine with 12024  Wor inspected for partification and 12024  I certify this engine has been inspected in accordance with a 50 hour inspected and reinstalled.  I certify this engine with 12024 | Description of Work Performed   |
| 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.   | RHC R22 IPC Fig. 28-13  RHC R22 IPC Fig. 28-13  r compression check. Results: #1: 78/80 #2: 74/80 #3: 76/80 #4: 72/80  siston. No adjustment needed sets noted  OHR inspection Replaced both magnetos with repaired magneto P/N 10-600614-1, S/N E06AA029A  201. S/N L-08057. Timed magneto to 25 degrees. Ref. Lycoming Direct Drive Overhaul Manual, Sec. 4  AMOE. Ref. Lycoming SI 1042AH and all operational checks. All work performed, Ref. RHC R22 maintenance manual and Lycoming 0-320  cordance with a 100HR inspection and was found to be in airworthy condition. |

| TOTAL   | INSPECTION OR MAINTENANCE PERFORMED  AGENCY & CERTIFICATE NO.   | TOTAL<br>TIME  | INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.   |
|---|---|--|--|
| DATE TIME  - 11-13-2023 2609-26  - ACTSO 408-S6 | REPLACES BROKEN MIXTURE CONTROL CABLE WITH NEW CABLE  PIN A522-3 REF RHC IPC FIGURE 76.5, REF RHC MM FIGURE 6-7  RUN UP AIRCRAFT, OPERTION CHECK OK AIRCRAFT APPROVED   | Make/Model: R22<br>Serial No: 1918M<br>Hobbs: 501.5<br>ACTT: 2702.2<br>ACTSO: 501.5  | Reg No: N178EP Date: 1/10/2024 WO#: 002690 EngTT: 2702 2 EngTSO: 501.5   |
| -<br>-  | FOR RETURN TO SERVICE PAUL THORSEN AP 3295491   |  | Description of Work Performed  |
| filter. Removed Complied with r                 | Reg No: N178EP Date: 12/12/2023 Work Order: 002658  EngTT: 2663.2  Description of Work Performed  engine 50 hour inspection. Ref. Lycoming 0-320 operators manual SSB 480F. Drained oil and serviced system with 6 quarts of aeroshell 100W plus. Installed new oil oil screen. Inspected and reinstalled.  720 Tun up, leak check, and all operational checks. All work performed ref Lycoming 0-546 operators e has been inspected in accordance with a 50 hour inspection and was found to be in airworthy | and IAW FAR 43 A Complied with all a Complied with SB Inspected and rein Inspected fuel scre Complied with Lyo Complied with Lyo Complied with Cyo | applicable ADs through bi-weekly 2024-01 480F Drained oil and serviced system with 6 quarts of aeroshell 100W Plus. Installed new oil filter. Removed oil screen.  Istalled sens and reinstalled Ref. RHC R22 IPC Fig. 28-13 oming SI 1191A cylinder compression check. Results: #1: 79/80 #2: 80/80 #3: 80/80 #4: 79/80 1129D alternator belt tension. No adjustment needed oming SB 366C, no defects noted II SB 643C, 100HR inspection. No defects noted, timed to 25 degrees up check, leak check, and all operational checks. All work performed, Ref. RHC R22 maintenance manual and Lycoming 9-998  Istalled new oil filter. Removed oil screen.  Selection of the check |

| DATE | TOTAL<br>TIME   | INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.   | DATE       | TOTAL<br>TIME   |  | INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO. |  |
|------|---|--|------------|---|--|--|--|
|      | Make/Model: R22<br>Serial No: 1916M<br>Hobbs: 351.2<br>Eng Mod: 0-320-B2C | Reg No: N178EP Date: 10/5/2023 ENGTT: 2551.9 SN:L-18057-39A  Description of Work Performed   | Ser<br>Hol | ke/Model: R22<br>ial No: 1918M<br>obs: 401 5<br>TT 2602 2<br>TSO: 401.5   | Reg No. N178EP<br>Date: 11/8/2023<br>WO#: 002620<br>EngTT 2602.2<br>EngTSO: 401.5  | SEVIER COUNTY CHOPPERS                                       |  |
|      | cieaneo, ano reinstalleo on   | ained oil and serviced system with 6 quarts of aeroshell 100W plus. Installed new oil filter. Removed, inspected, sump screen. Used new crush gasket and safety wired check, and all operational checks. All work performed ref Lycoming 0-320 operators manual. |            |   |  | ion of Work Performed  |  |
|      | Lance Workman AP 3892   | 2417   |            | 43 App D Complied with all applicable Complied with SB 480F. Dra Inspected and reinstalled. Inspected fuel screens and Complied with Lycoming SI Complied with SI 1129D atta Complied with Lycoming SE Complied with CMI SB 6430 Adjusted throttle correlation Installed serviceable engine Complied with run up check operators manual | ADs through bi-weekly 2023-23 ained oil and serviced system with 6 reinstalled Ref. RHC R22 IPC Fig. 2 1191A cylinder compression check. emator belt tension. No adjustment r3 366C, no defects noted C, 100HR inspection. Adjusted L/H rt to be within limits. Ref. RHC R22 M e cooling panel P/N A305-7. Ref. RHit, leak check, and all operational chemspected in accordance with a 100Hi | needed nagneto timing to 25 degrees. Ref. Lycoming SI 1437   |  |
|      |   |  |            |   |  |  |  |

| TOTAL TIME                                 | INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.  | DATE | TOTAL<br>TIME  | INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.   |
|--|---|------|--|--|
| Model: R22<br>S/N: 1918<br>Reg. №: N1778EP | CONTOUR  693 Fitzhugh Blvd. Smyrna, TN 37167 615.534.4600  Engine   |      | Make/Model: R22<br>Serial No: 1918M<br>Hobbs: 301.5<br>ACTT: 2502.2<br>ACTSO: 301.5  | Reg No: N178EP Date: 7719/2023 WO#: 002488 EngTT: 2502.2 EngTSO: 301.5  Description of Work Performed  |
| Certify This Engine Has Boon Inc           | to p/n: 10-600644-201 with overhauled magneto s/n: L-01751. Timed magneto to engine. Ops and leak checks good. Ref spected and Repaired In Accordance With Lycoming MM and Is Approved For Return To Service with respect to the work owork performed are on file at this repair station Under Work Package JWN3005 dated: 4/21/2023.  Certified Repair Station Ns FJTR920D  Form C+M 037 |      | requirements, and b. Complied with all ap Complied with SB 4 Inspected and reinst Inspected fuel scree Complied with Lycox Complied with SI 11 Complied with CMI Complied with SB 3 Complied with SB 3 Reshimmed alternat Repaired engine cox Complied with un un un complied with un un un complied with un | Ingine 100HR/Annual inspection. Ref. Lycoming 0-320 operators manual, R22 maintenance manual applicable inspection and IAW FAR 43 App D  Il applicable ADs through bi-weekly 2023-15 B 480F. Drained oil and serviced system with 6 quarts of aeroshell 100W Plus. Installed new oil filter. Removed oil screen. B 480F. Drained oil and serviced system with 6 quarts of aeroshell 100W Plus. Installed new oil filter. Removed oil screen. B 480F. Drained oil and serviced system with 6 quarts of aeroshell 100W Plus. Installed new oil filter. Removed oil screen. B 480F. Drained oil and serviced system with 6 quarts of aeroshell 100W Plus. Installed new oil filter. Removed oil screen. B 480F. Drained Serviced System with 6 quarts of aeroshell 100W Plus. Installed new oil filter. Removed oil screen. B 480F. Drained Serviced Serv |

| :       |  | MOI ECTION & MAINTENANCE HEC                 |                |   | INSI ECITON & MAINI | LIMITE IILCOID  |  |
|---------|--|--|----------------|---|---------------------|---|--|
| DATE    | TOTAL<br>TIME  | INSPECTION OR MAINTENAN<br>AGENCY & CERTIFIC | DATE           | TOTAL<br>TIME   | 1                   | NSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.       |  |
| <u></u> | Serial N<br>Hobbs: '<br>ACTT: 2:<br>ACTSO:                       |  |                | Model: R22<br>S/N: 1918<br>Reg. №: N178EP   | Smyrn               | Date: 4/3/2023<br>1350-6: 289.93<br>1250-1: 250.09<br>15.534.4600 |  |
|         | Complied with SL 1080 items for a Complied with CMI SB643 100 hr | special attention                            | -Perfor and le | ak check good. Ref Lycomin<br>y This Engine Has Been Ins<br>med. Pertinent details of the | g MM.               |   |  |
|         |  |  |                |   |                     |   |  |
|         |  |  |                |   |                     |   |  |
|         |  |  |                |   |                     |   |  |
|         |  |  |                |   |                     |   |  |
|         |  |  |                | <del></del>   |                     |   |  |

| DATE | TOTAL<br>TIME   |   |   | INSPECTION OR MAINT<br>AGENCY & CER   |                                 |                    | DATE | TOTAL<br>TIME                                      |  |  | INSPECTION OR<br>AGENC                            | R MAINTENANCE PERFORMI<br>Y & CERTIFICATE NO. | ED   |               |
|------|---|---|---|---------------------------------------|---------------------------------|--------------------|------|--|--|--|---|---|--|---------------|
|      | Reg. No.  | N178EP  | Make/Model  | R22 Beta                              |                                 | 7                  |      | Reg. No.   | N178EP   | Make/Model   | R22   |   | 1  | <b></b> .     |
|      | Serial #  | 1918M   | Engine PN   | 0-320-B2C                             | HEI                             | ISTAR              |      | - Serial #   | 1918M  | Engine PN  | 0-320-B2C   |   | HELISTAR   | <del></del> . |
|      | Hobbs   | 150.0   | Engine SN   | L-16878-39A                           |                                 | ATION              |      | Hobbs  | 172.4  | Engine SN  | L-16878-39A                                       |   | AVIATION   |               |
|      | ACTT  | 2350.7  | Engine TT   | 2350.7                                |                                 |                    |      | ACTT   | 2373.1   | Engine 1T  | 2373.1  |   |  |               |
|      | ACTSO   | 150.0   | Engine TSO  | 150.0                                 | Date                            | 1/12/2023          |      | ACTSO  | 172.4  | Engine TSO   | 172.4   | Date  | 2/4/2023   |               |
|      | Removed oil sc Inspected fuel s Complied with I Complied with r manual. | reen. Inspected a creens. Cleaned a creens. Cleaned a creens. Cleaned a creens. Cleaned a creens of the creens of | on and serviced sy:<br>nd reinstalled.<br>and reinstalled.<br>C items for special<br>a check, and all ope | attention<br>rational checks. All wor | nual. illips X/C 20W-50. instal | ng O-320 operators |      | Ops Manual 6 Removed uns Manual 60297 Balanced fan | 0297-30 Oct 2006<br>erviceable pushre-<br>-30 Oct 2006<br>wheel IAW RHC Risak check performad IAW RHC R2 | od shroud PN/ 6898;<br>22 MM Sec 6.240 to<br>ned with no discrep | 7 SN/ N/A and instal<br>.04 ips.<br>ancies noted. | lled serviceable PN/ 68                       | 19957-14 IAW Lycoming O-320 987 IAW Lycoming O-320 Ops or return to service. |               |

| DATE                   | TOTAL<br>TIME   | INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.  | DATE   | TOTAL<br>TIME   | INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.   |
|------------------------|---|---|--|---|--|
| Ser<br>Hot<br>AC<br>AC | ke.Made: F22<br>:at it o 1916M<br>obs 50 0<br>TT 2250 7<br>TSC 50 0<br>gne 0-020-920  | Fieg No N178EP Date 10/17/22  EngTT 2200 / EngTSC 50 0 SML L-18878-39A  Description of Work Performed   | Make/Mc<br>Serial No<br>Hobbs 10<br>ACTT 23<br>ACTSO<br>Engine 0 | 1918M<br>30 0<br>30 7<br>90 0   | Fig No N178FP Date 11/20/20  FingTT 2000 / FingTSC 100 0 SN LindeTE 39A  Description of Work Performed         |
| :<br>!c                | Complied with SB 480F D screen Inspected and reir Inspected fuel screens. Cl Complied with Lycoming S Complied with run up cher | Eleaned and reinstalled. St 1080C items for special attention ick, leak check, and all operational checks. All work performed rel Lycoming O-320 operators manual in inspected IAW a 50 Hour inspection and was found to be in airworthy condition. | Comp teinste linspec Comp Comp Comp Comp Comp Comp Comp Comp     | ied with SB 480F. Draine illed toel screen cleaned ted fuel screen cleaned ed with SI 1191A cylindered with SI 1129D atterns led with SI 1080C items led with SI 1080C items led with CMI SB643B 10 led with run up check. Te anual | er compression check. Results #1 76/80 #2 79/90 #3 76/80 #4 74/80<br>ator beit tension 145 adjustment required |
|                        |   |   | _  |   |  |

| DATE             | TOTAL<br>TIME  | INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.  | DATE                     | TOTAL<br>TIME   | INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.  |  |
|------------------|--|---|--------------------------|---|---|--|
| Ser<br>Hol<br>AC | ke/Model: R22<br>rial No:1918M<br>bbs:0.0<br>TT: 2200.7<br>TSO:0.0 | Reg No:N178EP Date:8/18/22 WO#:002211 EngTT: 2200.7 EngTSO:0.0  | Serial<br>Hobbs<br>ACTT: | Model: R22<br>No:1918M<br>::0.75<br>2201.45<br>O:0.75 | Reg No:N178EP Date:8-19–2022 WO#:002211 EngTT:2201.45 EngTSO: 0.75  |  |
|                  |  | Description of Work Performed   |                          |   | Description of Work Performed   |  |
| mi ins           | anual and RHC R22 Mi   | ne PN 0-320-B2C SN L-16878-39A (see Triad Aviation, Inc work order #27187 HC R22 SN: 1918M. Performed an 100 hour inspection IAW Lycoming 0-320 Ops M applicable engine inspections. Serviced engine with 6 quarts of Aeroshell 100 nd leak check good. I certify this engine has been inspected IAW a 100 hour rthy condition. Work done by Sevier County Choppers under above work order. | opera<br>abov            | A atraight minaral ail                                | ne oil due with in first 5 hours of operation and serviced with 6 quarts of Aeroshell oil. Removed and replaced engine oil filter. Work performed IAW Lycoming 0-320 raft approved for return to service. Work done by Sevier County Choppers under |  |
|                  |  |   |                          |   |   |  |
| -                |  |   |                          |   |   |  |
|                  |  |   |                          |   |   |  |

| DATE  | TOTAL<br>TIME                  | INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.  |           |  |
|---|--------------------------------|---|-----------|--|
| TRIAD overhaule recomme complied  | AVIATION, In a ded to manufact | nc. certifies that this engine has been disassembled, inspected, and urer's overhaul manual new limits. Engine tested in accordance with a sand is approved for return to service. All applicable A.D. Notes are of overhaul. Pertinent details of this work are on file at this repair station.  DATE 07-26-2022 | n<br>e —— |  |
|   | LYCOMING<br>16878-39A          | MODEL O-320-B2C ENGINE TOTAL TIME 2200.7  | _         |  |
| _ TSMOH   | 0.0                            | TBO <u>2000</u>   |           |  |
|   | TRIAD<br>AVIATION              | Triad Aviation, Inc. Burlington Municipal Airport 3439 South Aviation Drive Burlington, NC 27215 336-227-1467  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: Date: 07/26/2022



## R22 Engine Accessories Installed

| Description  | Part Number  | Serial Number   |
|--|--|---|
| Engine Right Magneto Left Magneto Starter Alternator Carburetor Oil Cooler | 0-320-B2C BL-600644-201 BL-600614-1 B315-100-2 ALY-8520 LW-15986-70 C649-1 | L-16878-39A<br>E21AA038R<br>E20LA104R<br>0507120504X<br>H-V121488<br>MS01XC01<br>2994 |

### **ENGINE DESCRIPTION**

| , |                      |               |                       |        |           |              |             |
|---|----------------------|---------------|-----------------------|--------|-----------|--------------|-------------|
| 1 | MANUFACTURER         | Lycoming      |                       | _MODEL | 0-326-B3C |              | <del></del> |
| , | SERIAL NUMBER 4      | 16878-394     | _ DATE OF MANUFACTURE |        | 0-320-B2C | <del></del>  |             |
|   |                      |               |                       |        | ESSURE    |              |             |
| ; | FUEL REQUIRED OCTANI | E/PERFORMANCE | <br>                  |        |           |              |             |
| , | REGISTERED OWNER     |               |                       |        |           |              |             |
|   | STREET NO.           |               | <br>                  |        |           |              |             |
|   | CITY, STATE, ZIP     |               |                       |        |           |              |             |
| 1 | REGISTERED OWNER     |               |                       |        |           |              |             |
|   | STREET NO.           |               | <br>                  |        |           |              |             |
| ! | CITY, STATE, ZIP     |               | <br>                  |        |           | <del> </del> |             |
| - |                      |               | <br>                  |        |           |              |             |
|   |                      |               | <br>                  |        |           |              |             |
| • |                      |               |                       |        |           |              |             |

# ENGINE LOG EF5-1

|       |  | INSPECTION & MAINTENANCE RECORD   |         |        | INSPECTION & MAINTENANCE RECORD   |
|-------|--|---|---------|--------|---|
| DATE  | TOTAL<br>TIME                            | INSPECTION OR MAINTENANCE PERFORMED . AGENCY & CERTIFICATE NO.  | DATE    | TOTAL  | INSPECTION OR MAINTENANCE PERFORMED                                     |
| 12/20 | 2083,1                                   | REMOVED & REPLACED STARTER W/RC315-100-2  | 1/28/22 | 2161.0 | De led Cui & Inspected  |
|       |  | SN-0567/20504X OVERHAULED UNIT REF. LUCOMING  |         | 2101.0 | OLL-ILTER, NO METAL FOUND INSTALLED NEW                                 |
|       |  | AND RHCMAINT, MANUAL DEL AP3453874  |         |        |   |
|       |  | . 0.0   |         |        | Cods 20-50 Phillips XC OIL, Ground RUN, CHAZUS 574                      |
|       | Rocket City Helicopte                    | ers LLC   |         |        | SATIS FACTORY REF KHC & CYCOMINGMAINS MAN, STADSUS 5074                 |
|       | 236 Lawler Dr. #4<br>Brownsboro, AL 3574 | RCH   |         |        | · 1 Par Pur RZZ   |
|       |  | ROCKETCITY<br>HELICOPTERS   | 2/28/22 | ZZ00.7 | Removed engine for overhoul Ref. RHC RZZ  MM Sec. 6.110. MM A:P 3892417 |
|       | N178EP SN:1918M                          | M ACFT TT: 2100.3 HOBBS: 2100.3. Eng TSO 2100.3 01/25/2021  |         |        | Mm Sec. 6.110. 11.11 A:D 33.21.   |
|       | 0  |   |         |        |   |
|       |  | Jual Engine inspection IAW Lycoming Service Manual. Cylinder compressions tested Cylinder #1, 76/80, #2.  76/80 . Adjusted both magnetos and set internal and external timing. Cleaned and inspected and tested all |         | -      |   |
|       | its, Phillips 20/50 oil.                 | replaced oil filter with Temport filter, ALL CRE and AR   |         |        |   |
|       | Test flew aircraft, no l                 | eaks noted  |         |        |   |
|       | performed.                               | ne has been inspected IAW 100hr/Annual requirements and is found to be airworthy with respect to the work   |         |        |   |
| Q     | Timothy P. Knueven                       |   |         |        |   |
|       | FAA A&P IA 2727695                       |   |         |        |   |
|       |  |   |         |        |   |
|       |  |   |         |        |   |

#### INCOROTION O ALABATENIANIOS DECODO

|          | INSPECTION & MAINTENANCE RECORD  |   |  |  |  |  |
|----------|--|---|--|--|--|--|
| DATE     | TOTAL<br>TIME  |   | INSPECTION OR MAINTENANCE PERI<br>AGENCY & CERTIFICATE NO.   |  |  |  |
|          | Pocket City Helicop<br>236 Lawler Dr. #4<br>Brownsboro, AL 35:   |   | •  | RCH<br>ROCKETCITY<br>HELICOPTERS   |  |  |
|          | N178EP SN:1918   | ACFT TT: 1901.7   | HOBBS: 1901.7. Eng TSO 1901.7  | 09/01/2021   |  |  |
|          | 76/80 #3. 68/80, #4<br>spark plugs. Reinstats,<br>Phillips 20/50 oi<br>Completed run up, l<br>Test flew aircraft, no | J. 72/80 . Adjusted both ma<br>alled. C/W SI 1129 Alternat<br>, replaced oil filter with Ten<br>eak check, and operationa<br>bleaks noted<br>gine has been inspected IA | W Lycoming Service Manual. Cylinder compre agnetos and set internal and external timing. Clor belt tension adjustment. Drained oil, remove appest filter. ALL SBs and ADs are current and cool of the complex of the com | eaned and inspected and tested all ed and inspected oil filter. Filled with 5 complied as applicable through 02/2021 cycoming Manuals Results are OK |  |  |
| 10/17/21 | 1950.0   | Serviceo Su<br>SATISFALTORI   | ENWED CUT ANDINSPECTED OF COTED SUMP SCREEN, INSTRUCTOR MP W/ Legts Phylips Y-C 20  RETRICOMPTENANCE N  LAP 3453874 (  | 0.50 GIL, Grown Rus  |  |  |

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#### **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. 75/80. #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 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 rest flew aircraft, no leaks noted certify that this engine has been inspected IAW 100hr/Annual requirements and is found to be airworthy with respect to the work performed

Timothy . Knueven FAA A&P IA 2727695

12/5/21 2051,5 DAMNED OIL, Removed Cut & INSPECTED OIL FILTER, NOWETAL FOUND INSTALLED NEWTEM POST OIL FILTER AND Egts Phillips X-C 20-50 BIL Grand Run SATISFACTORY REFRACENTANUALAND LYCOMINGWAINT MIPNERC DE #173453874

|  | li .   |
|--|--|
| INSPECTION & MAINTENANCE RECORD  | INSPECTION & MAINTENANCE RECORD  |
| INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.  DEPLE DIL, Removed Cut & Trospected  | Flocket City Helicopters LLC 236 Lawler Dr. #4 Brownsboro, AL 35741 ROCKETCITY HELICOPTERS   |
| BULFILTER, REMOVED, INSPORTED & REPLACED SUMP<br>SCREEN, NO METAL FOUND INSTALLED NEW TEMPOST<br>BILFILTER & RESERVICED W/ Gats Ph. 11,05 XC 24/50 | <u></u>  |
| REF LYCOMING & RODINGON MAINT, MANO AL.  | Completed 100hr/Anuual Engine inspection IAW Lycoming Service Manual. Cyllinder compressions to the Completed 100hr/Anuual Engine inspection IAW Lycoming Service Manual. Cyllinder compressions to the Completed 100hr/Anuual Engine inspection IAW Lycoming Service Manual. Cyllinder compressions to the Completed 100hr/Anuual Engine inspection IAW Lycoming Service Manual. Cyllinder compressions to the Completed Service Adjusted both 77/80. #3 60/80, #4 72/80. Removed and replaced magnetos with overhauled units from Aircraft Magneto service. Adjusted both 77/80. #3 60/80, #4 72/80. Removed and replaced magnetos with overhauled units from Aircraft Magneto service. Adjusted both 77/80. #3 60/80, #4 72/80. Removed and replaced magnetos with overhauled units from Aircraft Magneto service. Adjusted both 77/80. #3 60/80, #4 72/80. Removed and replaced magnetos with overhauled units from Aircraft Magneto service. Adjusted both 77/80. #3 60/80, #4 72/80. Removed and replaced magnetos with overhauled units from Aircraft Magneto service. Adjusted both 77/80. #3 60/80, #4 72/80. Removed and replaced magnetos with overhauled units from Aircraft Magneto service. Adjusted both 77/80. #3 60/80, #4 72/80. Removed and replaced magnetos with overhauled units from Aircraft Magneto service. Adjusted both 77/80. #3 60/80, #4 72/80. Removed and replaced magnetos with overhauled units from Aircraft Magneto service. Adjusted both 77/80. #3 60/80, #4 72/80. Removed and replaced magnetos with overhauled units from Aircraft Magneto service. Adjusted both 77/80. #3 60/80, #4 72/80. Removed and replaced magnetos with overhauled units from Aircraft Magneto service. Adjusted both 77/80. #3 60/80, #4 72/80. Removed and replaced magnetos with overhauled units from Aircraft Magnetos service. Adjusted both 77/80. #3 60/80, #4 72/80. #4 |
|  | 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: Knueven FAA &P IA 2727695  |
|  | 8/6/21 1850, DRAINED OIL, REMOVED CUT, AND THE PECTEN OIL FILTER, REMOVED THE PECTEN AND REPLACED SUMP SCREEN, NO METAL FOUND, THE TALLE NEW TEST POST OIL FILTER AND RESERVICED WILL GIS PAICLIPS Y-C 20/56 OIL, CERONNO RUN GLEAR CHECK SATIRFACTORY REF LYCOMING & ROBINSON MAINT MANNEL REF LYCOMING & ROBINSON MAINT MANNEL REF LYCOMING & ROBINSON MAINT MANNEL REFLYCOMING & ROBINSON MANNEL RE |
|  | KEF Lycom ING & KODINSON 17  |

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| DATE     | . TOTAL  | INSPECTION & MAINTENANCE RECORD  INSPECTION OR MAINTENANCE PERFORMED   |             | TOTAL  | INSPECTION & MAINTENANCE RECORD  INSPECTION OF MAINTENANCE PERFORMED   |
|----------|--|--|-------------|--|--|
|          | TIME   | AGENCY & CERTIFICATE NO.   | DATE        | TIME   | AGENCY & CERTIFICATE NO.   |
| 4/3/21   | 1550,0   | DRAINED QUE, REMOVED, CUT, INSPECTED OIL   | 5/14/2      | 1 1650.0   | DRAINED OIL, ROMOVED & INSPECTED OIL FILTER CLEANED  |
| <u></u>  |  | FICTER, Checked SCREEN No METAL FOUND, FILLE,  | <del></del> |  | Screen, Filled with Gots Phillips X-C 20-5001  |
|          |  | CRANK CASE W/6 of Phillips xC 20-50614 TNSTANO   |             |  | Replaced oil FICTER DITH TEMPEST FICTER. Completed   |
| <u> </u> |  | NEW OIL FILTER, GROWNO RUN SATIS FACTORY REF   |             |  | RUN UP, LEAK Check & ops Check Ref. RHC  |
|          |  | ROBINSON & LY COMING MAINT MANUAL IR 3153814Ap.  |             |  | MAINT. MANUAL & LYCOMING MANUAL RESULTS OK.  |
|          | 1  |  |             |  | Test Flow Al. No I RAVE ATThe T IST DONE 20-11   |
|          | Rocket City Helicopt<br>236 Lawler Dr. #4<br>Brownsboro, AL 357                        |  |             | Rocket City Helicopters<br>236 Lawler Dr. #4<br>Brownsboro, AL 35741   | RCH ROCKETCITY HELICOPTERS   |
|          | N178EP SN:1918   | M ACFT TT: 1603.3 HOBBS: 1603.3 04/27/2021   |             | N178EP SN:1918M  | ACFT TT: 1702.1 HOBBS: 1702.1 06/17/2021 —   |
|          | sump screen. Filled vapplicable through 02 Completed run up, le Test flew aircraft, no | uual Engine inspection IAW Lycoming Service Manual. Cylinder compressions tested Cylinder #1. 78/80, #2. 74/80. Adjusted both magnetos and set internal and external timing. Cleaned and inspected and tested all led. C/W SI 1129 Alternator belt tension adjustment. Drained oil, removed and inspected oil filter. Cleaned oil vith 5 qts, Phillips 20/50 oil, replaced oil filter with Tempest filter. ALL SBs and ADs are current and complied as a check, and operational checks IAW RHC Maintenance Manual and Lycoming Manuals Results are OK eaks noted  The has been inspected IAW 100hr/Annual requirements and is found to be airworthy with respect to the work |             | 77/80. #3. 60/80, #4. 7<br>magnetos and set inter<br>tor belt tension adjustn<br>Tempest filter. ALL SBs<br>Completed run up, leal | Lal Engine inspection IAW Lycoming Service Manual. Cylinder compressions tested Cylinder #1. 25/80, #2. 2/80. Removed and replaced magnetos with overhauled units from Aircraft Magneto service. Adjusted both roal and external timing. Cleaned and inspected and tested all spark plugs. Reinstalled. C/W SI 1129 Alternament. Drained oil, removed and inspected oil filter. Filled with 5 its, Phillips 20/50 oil, replaced oil filter with an annual and ADs are current and complied as applicable through 02/2021 k check, and operational checks IAW RHC Maintenance Manual and Lycoming Manuals Results are OK tasks noted has been inspected IAW 100hr/Annual requirements and is found to be airworthy with respect to the work |

| INSPECTION & MAINTENANCE RECORD     |      |       | INSPECTION & MAINTENANCE RECORD                              |
|-------------------------------------|------|-------|--|
| INSPECTION OR MAINTENANCE PERFORMED | DATE | TOTAL | INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO. |

|               | INSPECTION & MAINTENANCE RECORD                              |         |       | INSPECTION & MAINTENANCE RECORD                              |
|---------------|--|---------|-------|--|
| TOTAL<br>TIME | INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO. | DATE    | TOTAL | INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO. |
| 1348,5        | Dealued oil, Removed, Cut, AND INSPECTED FILTER &            | 1/30/21 | 1447  | DRAINED OIL, Removed, CUT & INSPECTED DICFICTER              |
|               | SCREEN, NO METAL FOUND, REINSTALLED NEW FILTER &             | 1       |       | Unalar FOUND. INSTALLED NEW OIL FILTER & ROSETVICED          |
|               | Screen, Reflued Sump. W/6 oits, Phillips X-C 20-50           |         |       | Sump W/6 ats. Phillips X-C 20-50, GROUND RUN                 |
|               | groupo RUN Spriffactory Ref. Robinson R-22 MAINT.            |         |       | SATIFACTORY. REF ROBINSON R. 22 MAINT MANUAC                 |
|               | MANUAL & Lycoming Manual Rel CREL AP3453874                  | 1       |       | & LYEOMING MANUAL SLPX A03453874                             |

MANUAL & Lycoming MANUAL Kel ERES AP3453874



ACFT TT: 1399.4 HOBBS: 1399.4 01/04/2021

Completed 100hr/Anuual 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 its, 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 I certify that this engine has been inspected IAW 100hr/Annual requirements and is found to be airworthy with respect to the work

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



03/12/2021 HOBBS: 1503.5 ACFT TT: 1503.5 SN:1918M

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 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

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

DATE

12/0/20

N179EP SN:1918M

Timothy P. Knueven

FAA A&P IA 2727695

work performed.

Timothy P. Knueven

FAA A&P IA 2727695

DATE

|   |   | INSPECTION &  | MAINTENANCE RECOR  | D  |  |   |  |
|---|---|---|--|--|--|---|--|
| _ | TOTAL<br>TIME   |   | INSPECTION OR MAINTENANCE PERFORM<br>AGENCY & CERTIFICATE NO.  | AED  | DAT                                      | E   | TOTAL<br>TIME  |
|   | Rocket City Helicopte<br>236 Lawler Dr. #4<br>Brownsboro, AL 3574   |   |  | RCH<br>ROCKETCITY<br>HELICOPTERS                           | 10/21                                    | 20  | 1249.1   |
|   | N179EP SN:1918M   | M ACFT TT: 1200.9   | HOBBS: 1200.9 ENGINE TSN 1200.9  | 10/02/2020   |  |   | ty Helicopters LL  |
|   | tenance, Removed of 09-11997 using Plyot  | ld nose seal, sealant and   | Cowlings, Fan, Scroll, Lower bearing, flywheel cleaned and inspected the mating surfaces. Ins instruction 1324C. Allowed to cure, Cleaned in 1 | talled new Lycoming seal PN                                |  | Lawle   | er Dr. #4<br>ro, AL 35741  |
|   | Located additional leanoted.  | ak at the #2 cylinder push  | rod tube. Replaced push rod tube seals, Inspec   | ted all 8 pushrods no further damage                       | N17                                      | 9EP   | SN:1918M   |
|   | Cylinder compression leak. Removed, insper Reinstalled exhaust, Adjusted both magnet Cleaned and inspector C/W SI 1129 Alternat ALL SBs and ADs are Completed run up, le Test flew aircraft, no | ected and replaced cylinde<br>intake tube oil drain back<br>etos and set internal and e<br>ed and tested all spark plu<br>or belt tension adjustment<br>e current and complied as<br>ak check, and operational<br>leaks noted | t.<br>applicable through 10/2020<br>I checks IAW RHC Maintenance Manual and Ly   | 22006W-A20P SN- 326WH2022572 coming Manuals Results are OK | Cylin Adju<br>Clear<br>C/M<br>ALL<br>Con | nder custed to<br>aned a<br>/ SI 11<br>. SBs a<br>npleted | d 100hr/Anuual E<br>ompressions tes<br>ooth magnetos a<br>and inspected and<br>29 Alternator bel<br>and ADs are curre<br>d run up, leak ch<br>aircraft, no leaks |
|   | i ceimy mat mis engi  | ne has been inspected IA  | W 100hr/300hr/Annual requirements and is four  | id to be airworthy with respect to the                     | 1_ 1 ce                                  | tify th   | at this engine ha  |

### **INSPECTION & MAINTENANCE RECORD**

INSPECTION OR MAINTENANCE PERFORMED

AGENCY & CERTIFICATE NO.

| 16/21/20  | 124a ilah   | by DRAINED OIL Removed INSPECTED & KEPLACED         |
|-----------|-------------|---|
| 1-1-11-20 | 10 (4.1 80) | OIL FILTER, ROMOJED INSPECTED & REINSTALLED SUCTION |
|           |             | Screen, Refilled CRANKERSE W/ 6 9ts, X-C 20050      |
|           |             | OIL GROWNS RUN SprisFACTORY JOLER & AP 3457874      |
|           |             | )/\   |

HOBBS: 1300.9

copters LLC 35741

**ROCKET**CITY HELICOPTERS TPK 10/45/2020

nr/Annual Engine inspection IAW Lycoming Service Manual. essions tested Cylinder #1. 76/80, #2. 79/80. #3. 78/80, #4. 78/80

ACFT TT: 1300.9

agnetos and set internal and external timing. pected and tested all spark plugs. Reinstalled.

ernator belt tension adjustment.

s are current and complied as applicable through 10/2020 Jp, leak check, and operational checks IAW RHC Maintenance Manual and Lycoming Manuals Results are OK

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

Timothy P. Knueven

work performed.

FAA A&P IA 2727695

### INCORCATION O MAINTENIANIOS

| 707.  | SPECTION & MAINTENANCE RECORD  |                                   |            | INSPECTION & MAINTENANCE RECORD |  |
|---|--|-----------------------------------|------------|---------------------------------|--|
| DATE TOTAL TIME   | INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.   |                                   | DATE       | TOTAL<br>TIME                   | INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.         |
| ENCINE MORE   |  |                                   | 3 Sep-2020 | 1105. 1 hobbs                   | Performed 100hr inspection per lycoming 0-320 Operators Manual       |
| ENGINE MODEL: 0-320-B2C<br>ENGINE S/N: L-16878-39A<br>REG. NO: N178EP<br>WORK ORDER: 3316 | Helicopter Services, Inc. Repair Station No. HLXR728E  | DATE: 8/21/2019<br>A/C TSN: 971.2 |            |                                 | + checklist section 4. Orained Eng oil cutoper filter + inspected    |
|   | 19931 Steubner Airline Rd. Spring, TX 77379 Phone: 281-370-4354  | TSMOH: 91.7<br>HOBBS: 971.2       |            |                                 | for Metal, NO Discrepancies Noted Serviced w Sots of Aeroshell 100+  |
| Engine Entries 7 Performed 100 hour Lycoming Eng  | gine Inspection per operators manual O-320 series.   |                                   |            |                                 | # Replaced filter in New. Compression check as follows #172 #277 :   |
| Installed new filter, drained oil, rep  | ne Inspection per operators manual O-320 series. Removed oil filter, Inspected for metal particles with no defe  | ects noted.                       |            |                                 | New PIN UREM38E. Removed + Replaced 4Ea: Ntalle gaskets w/ New PIN   |
| . chomied compression check on  | all cylinders. checked as follows #1-74, #2-72, #3-74, #4-72, IAW Lycoming MM tin SB-388C exhaust valve and guide inspection. measured as follows, #1 exhaust valve .022, #2 exhaust valve .027.   | ve 028 #3                         |            |                                 | 71973. All ADIs complied w/ through this date 3 Septte. Ground row   |
| The aircraft and/or component(s) == \$147977  | inspected and/or repaired in accordance with current FARs of the Federal Aviation Administration and was found Airworthy for air station CRS# HLXD 28E under work order No. 3316, Dated 3(24/2019).  | return to service                 | 6          |                                 | + Lock check Completed W/ NO (Viscreparcies. & Certify N178EP):      |
| DATE: 8/21/2019 SIG   | GNED/14/5  | ork Order: 3316                   |            |                                 | to be in airworther condition with reference to the world performed: |
| Mic<br>Cer  | chael Crossland tified Repair Station No. HLXR728E  Printed by EBis 3 (date of the control of th |                                   |            |                                 | abore.   |
|   |  |                                   |            |                                 | AP36493Ø6TH  |
|   |  |                                   | 17 SCP2020 |                                 | OPPOINTED OIC, GHANDED & INSPECTED FILTER,                           |
|   |  |                                   | TSMOH      | 284.5                           | CHECKED SUCTION SCREEN REFILLED W/5,5945                             |
|   |  |                                   |            |                                 | AEROSHELL WILDPLUS GROUND RUN SATISFACTORY                           |
|   |  |                                   |            |                                 | Jul 18 AP 3453874  |
|   |  | -                                 |            |                                 |  |

|           |               | mor certain a management                                     |    |
|-----------|---------------|--|----|
| DATE      | TOTAL<br>TIME | INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO. | D  |
| ichel8    |               | SB-480. Servical with boot of Lexoshell 100                  |    |
| 15MOH     | 10.2          | mineral and instellar a new 48/08-2. In male                 | 1  |
| Hobbs     | 889.7         | notal. Adjusted LH magnete to 25° BTDC.                      |    |
|           |               | PH masodo was in linds. Removed, Inspected and               | 1  |
|           |               | rotated all spack alugs. Run-up and leak charked             | 1  |
|           |               | ck. I cestif that this engine has been                       | -  |
|           |               | inspected IAWan connuct inspection and                       | 1  |
|           |               | was defermined to be in an dirwestly condicion               | +  |
|           |               | B Kenneth W Keen Jr. 43P SOBYTHEO TA                         | -1 |
|           |               | 863-885-2796 Roterwings@ GMAIL.com                           | -  |
| A0315, 18 | Hollis 915.1  | Dil Change, Aeroshell 15W50 5Qts. CH 48108-1 Filter changed  | -  |
|           | BMOH 35.6     | Noteaks. Ply cent +3484813                                   |    |
|           |               |  | -  |
|           |               |  |    |
|           |               |  |    |
|           |               |  | -  |
|           |               |  | _  |
|           |               |  | _  |
| 41        |               |  |    |

| DATE TOTAL TIME |                             |   |   | INSPECTION OF AGENC  | MAINTENANCE PERFORMED Y & CERTIFICATE NO.   |
|-----------------|-----------------------------|---|---|--|---|
|                 | ENGINE<br>ENGINE<br>REG. NO | MODEL: 0-320-B2C<br>S/N: L-16878-39A<br>: N178EP<br>RDER: 3253  | Re<br>19  | elicopter Services, Inc.<br>pair Station No. HLXR728E<br>931 Steubner Airline Rd.<br>ring, TX.77379<br>one: 281-370-4354 | DATE: 5/15/2019<br>A/C TSN: 961.2<br>ENG TT:<br>TSMOH: 81.7<br>HOBBS: 961.2   |
|                 | 2 3                         | AA48108-2 and serviced videfects noted.  Customer reported right re Removed right hand magi   | ear valve cover gatheto for maintenar             | sket leaking. Removed old gasket and install<br>nce due to oil filter being over tightened. Re-in                        | ual 0-320 series section 4 periodic inspection. Installed new filter P/N with no metal noted. Ground ran aircraft and leak checked with no ed new gasket p/n LW75906 IAW Lycoming 0-320 Series MM.  Installed same magneto and verified magneto timing. All work done |
|                 | Pertinen                    | Marie Andrews | 78EP was inspected at this repair station SIGNED: |  | the Federal Aviation Administration and was found Airworthy for return to service.  d 5/15/2019.  Work Order: 3253  Printed by EBis 3 (datcomedia.com)  |
|                 |                             |   |   |  |   |
|                 |                             |   |   |  |   |
| _               |                             |   |   |  |   |
|                 |                             |   |   |  |   |
|                 |                             |   |   |  |   |

| <u> </u>   | INSPECTION & MAINTENANCE RECORD |  |                                     |               | INSPECTION & MAINTENANCE RECORD  |  |  |
|--|---------------------------------|--|-------------------------------------|---------------|--|--|--|
| DATE   | TOTAL<br>TIME                   | INSPECTION OR MAINTENANCE PERFORMED  | INSPECTION OF MAINTENANCE PROPERTY. |               |  |  |  |
| AUG 22'17  Louineted Engine Time since off  AUG 22'17  Louineted Engine Time since off | 886.0<br>252.05.21<br>6.5       | 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 70/80 #2 79/80 #3 70/80 #4 77/80.  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 131009.  Robinson Helicopter Co. FAA Repair Station YV3R012M.  Authorized Signature Authorized Signature Authorized Signature Authorized Signature Sign | DATE                                | TOTAL         | 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 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 |  |  |
|  |                                 | Authorized Signature Adams FAA Repair Station YV3R012M.  | LAUS!<br>Froise<br>TSINCH           | 889.7<br>10.2 | Performed connuct inspection by relevencing FAR  113 approved to D. Attended inell lension located pro Lyc SI 1129. Cylindar compositions bester per  SI-1191 All 18/20 or holder. Changed oil par Lyc.  |  |  |

|      |               | INSPECTION & MAINTENANCE RECORD   | INSPECTION OR MAINTENANCE PERFORMED - |               |  |  |
|------|---------------|---|---------------------------------------|---------------|--|--|
| DATE | TOTAL<br>TIME | INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.  | DATE                                  | TOTAL<br>TIME | 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 S11080B: 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 Cy11-72: Cy12-72: Cy13-78; Cy14-76: 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. 1 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 |                                       |               | 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. |  |
|      | 1.5.0. 245.5  | THIS ENGINE WAS REMOVED FROM ROTORCRAFT S/N 1918  FOR OFERHOUS DETAILS ARE ON FILE AT ROBINSON HELICOPTER CO. 2901 AIRPORT DRIVE, TORRANCE, CA 90505 UNDER REPAIR ORDER NUMBER: 130 FAA CERTIFIED REPAIR STATION: 2438012M  AUTHORIZED SIGNATURE:   |                                       |               | Authorized Signature,  Chris Sennett   |  |

INSPECT

|          |               | INSPECTION & MAINTENANCE RECORD   |      |               | INSPECTION & MAINTENANCE RECORD  |  |
|----------|---------------|---|------|---------------|--|--|
| DATE     | TOTAL<br>TIME | INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.  | DATE | TOTAL<br>TIME | INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.   |  |
| 10hclor  |               | 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 IAM M.M. END  M. S83-75-9886  MODEL TO SIN AND SERVICE SIN |      |               | 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 |  |
| 10126[12 | 851.2         | Removed And Install O.H. Moznetos P/N 10600644-24   |      |               |  |  |
|          |               | SIN EO THAT 37 L/4. PIN BL-(coo GIV-1 5/N E116ACC31) Preformed of Chick and Feel Ok. rep 282312 (   |      |               |  |  |
|          |               | treation or chen nel tearlok. rep 2823174   |      |               |  |  |

| INSPECTION & MAINTENANCE RECORD |  |   |      | INSPECTION & MAINTENANCE RECORD |  |  |  |
|---------------------------------|--|---|------|---------------------------------|--|--|--|
| DATE                            | TOTAL TIME  INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO. |   | DATE | TOTAL<br>TIME                   | INSPECTION OR MAINTENANCE PERFORMED  |  |  |
|                                 | 1. C/W Lyc<br>2. I Certify was foun<br>(4) 80-74                         | Bate: 02/26/10 Engine Time: 0817.1 Engine TSO: 0817.1  oming SB 480E Oil Change, Services with Aeroshell 15 W 50 Semi Synthetic. that this Engine has been Inspected IAW Annual Inspection Robinson 2.400 Checkling to be in Airworthy Condition. Compression Check (1) 80-74 (2) 80-74 (3) 80-76 | st   |                                 | 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. R. 480B Oil Filter Insp. All Work Preformed IAW M.M. END. |  |  |

| INSPECTION OR MAINTENANCE PERFORMED  |                           |
|--|---------------------------|
| AGENCY & CERTIFICATE NO.  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-2006 WOW 389 M178EP SN 1918M POBINSON Mariener R22 Pg 1/1  8-22 Mariner 5/H:1918 M178EP T.T.:782.3  Complicited with 100 eour Annual Inspection. Carburator bowl drain plug renoved, bowl Cleaned, and re-install specified and plug re-installed and state. Carburator bowl drain plug renoved, bowl Cleaned, increased and plug re-installed and re-install specified specified with 100 eour Annual Inspection as per Section 2-400 and service capine per Inspected and plug re-installed and re-install specified specified with 100 eour Annual Inspection as per Section 2-400 and service capine per Inspected and plug re-installed and re-install specified with 100 eour Annual Inspection as per Section 2-400 and service capine per Inspected and plug re-installed and re-install spark plug. Removed, cleaned oil screen, for install specified with 100 eour annual Inspection as per Section 2-400 and service capine per Inspected and plug re-installed and re-install spark plug. Remove, Clean, Inspect and e-install sp | nd ok at ed, el bowl. #3: |

|         |               | INSI LETION & MAINTENANCE RECORD   |   |
|---------|---------------|--|---|
| DATE    | TOTAL<br>TIME | INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.                               |   |
| 06/2006 | 726. Z        | Oil danned, filled with Shell Som, - 5 youteter<br>15 W-50 AND GUSINE OIL Additue CW-16702 |   |
|         |               | added At this time. Reference operational check  |   |
|         |               | and No leaks found at this time CNS.   |   |
|         | ii .          | 19 598098512   |   |
|         |               |  |   |
|         |               |  |   |
|         |               |  |   |
|         |               |  |   |
|         |               |  |   |
|         |               |  |   |
| •       |               |  | 1 |

| DATE                        | TOTAL<br>TIME   | INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.   |       |  |  |
|-----------------------------|---|--|-------|--|--|
| LOG ID# 27                  | '0 17-January-200   | amp, Lot 3-A Isla Grande Airport San Juan, PR 00907 V1TR062X<br>7 WO# 285<br>INSON Mariener R22 Pg 1 /   | 1     |  |  |
| N178EP Lyc                  | oming 0-320-2BC S   | /N:L-16878-39A T.T.:745.7 T.S.O.:106.2   | _     |  |  |
| T.T.:726.2.                 | Cylinder No. 2 h  | urers Instructions. Filter reported normal at last oil change<br>ad 2 Exhaust Gaskets. Exhaust Pipe removed, Flanges cleaned, inspected<br>stalled, Exhaust re-installed. Intake Pipes removed, cleaned and<br>ins at #1, #2, #4 Cylinders at Cylinder Head. Installed all Intake<br>r and Lower Spark Plugs interchanged, Engine cleaned. |       |  |  |
| Compression                 | Test: #1-70/80; #   | 2-75/80; #3-75/80; #4-75/80.   |       |  |  |
| Rotorcraft e<br>engine para | Rotorcraft ground run for operational and leak check. flight check made, flight characteristics and engine parameters normal. |  |       |  |  |
| Aviation Agr                | that this Engine<br>ency Regulations a<br>Authorize Signatu   | JN   | 745.7 |  |  |
|                             |   |  |       |  |  |
|                             |   |  |       |  |  |
|                             |   |  |       |  |  |
|                             |   |  |       |  |  |
|                             |   |  |       |  |  |

| N & MAINTENANCE RECORD   |  |
|--|--|
| INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.   | DATE   |
| AGENCY & CERTIFICATE NO.  B-A Isla Grande Airport San Juan, PR 00907 V1TR062X  179 AC TT 707.0  Mariener R22  Pg 1/1  on using manufacturers checklist. Engine compression test: #1  and leak check made. Engine parameters normal.  prinspected and/or repaired in accordance with current Federal eby approved for return to service.  Certificate # | DATE   |
|  | and and stat   |
| o a ne   | A Isla Grande Airport San Juan, PR 00907 V1TR062X 179 AC TT 707.0 Mariener R22  Pg 1/1  In using manufacturers checklist. Engine compression test: #1  Ind leak check made. Engine parameters normal.  Inspected and/or repaired in accordance with current Federal by approved for return to service. |

#### INSPECTION & MAINTENANCE RECORD

INSPECTION OR MAINTENANCE PERFORMED

AGENCY & CERTIFICATE NO.

CARIBBEAN AVIATION MAINTENANCE CORP. P.O. BOX 41268 Caribbean SAN JUAN P.R.00940 Aviation

TELEPHONE 1-787-723-3385 FAX 1-561-725-7611 FAA REP. STA. YCYR672X

Hawker

N178EP HOBBS: 725.3 S/N:1918M

#### **ENGINE LOG ENTRY**

INSPECTION

#### MAINTENANCE RELEASE

The aircraft,airfrme,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

Ricardo Authorized signature:

TOTAL

Work Order #06-0403-00

|          |                    | INSI ECTION & MAINTENANCE RECORD  |
|----------|--------------------|---|
| DATE     | TOTAL<br>TIME      | INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.  |
| 10-17-01 | 618.2              | I certify That This Engine has been Inspected   |
|          | and I              | I.A.W. 1004x ANNUAL Inspection and Found  |
|          | No. of the last of | Aleworthy! Air Filter 12 : R W/ New.  |
|          | 6.1 9.             | Lower Spank Plyac Rive wollarens  |
|          | ri                 | Compression TesT: # 1 75/80 # 2 72/80 # 3 76/80 # 4 1/80.   |
| 1        |                    | Engine grown RUN For Operational & Lask Check.  |
|          | W SEA              | Flight Check MAde, All PAMMeters Found Normal.  |
|          |                    | This Engine is Release to Return To Service.  |
| -        |                    | 10-17-01 T.T. 618.2 18 Cho  |
|          |                    | A.P I.A. 582984825  |
|          |                    |   |
|          |                    |   |
| 6/19/03  | 0634.0             | This was 15 and 16 16 16 16 16  |
| ·        |                    | This engine was removed from rotorcraft S/N 1918 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: Causer P. Johnson.  |
| -[       | Mark               |   |

#### INSPECTION & MAINTENANCE RECORD

TOTAL DATE

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

4/02

| 1           |               |  |                                 |               |   |
|-------------|---------------|--|---------------------------------|---------------|---|
|             |               | INSPECTION & MAINTENANCE RECORD                              | INSPECTION & MAINTENANCE RECORD |               |   |
| DATE        | TOTAL<br>TIME | INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO. |                                 | TOTAL         | INSPECTION OR MAINTENANCE PERFORMED                         |
| 9-14-99     |               | AGENCY & CERTIFICATE NO.                                     | DATE                            | TOTAL<br>TIME | AGENCY & CERTIFICATE NO.                                    |
| 17777       | 3 63. 4 TET   | I certify that this engine has been inspected                | 12 Novo0                        | 591.6         | I certify That This Engine has been Inspected               |
|             |               | In accordance with 100/annual inspection and                 | T.S.N.                          | 591.6         | I.A.W. 100hr /ANNUAL FUSPECTION AND FOUND                   |
| <del></del> |               | was determined to be in airworthy condition.                 |                                 |               | Airworthy Both Magnetos Removed, BREAKEN Points             |
|             |               | Hobbs 563.9- July 4. At IASBY 759987                         |                                 |               | Inspecte & And Luber Cam Lobe wick. Re- Installed           |
|             |               |  |                                 |               | AND TIMED. C/W SB 388B VALVE TRAID Imspection.              |
|             |               |  |                                 |               | Extrust quide Valve wasn within Limits.                     |
|             |               |  |                                 |               | Exhaust Value guide #1.020" #2.025" #3.026" #4.020"         |
|             |               |  |                                 |               | Compression TesT: #1 80/75#2 80/72 #3 80/78 #4 89/75.       |
|             |               |  |                                 |               | Spack Plugs Clarmed & Re-InsTAlled.                         |
|             |               |  |                                 |               | This Rugime Released For Service Peturo To Service.         |
|             |               |  |                                 |               | 18 C ho- Aip, I.A. 582984825                                |
|             |               |  |                                 |               |   |
|             |               |  | 5-18-01                         | 610·a         | 0,1 Saned, billed with Shell- Smi-Syntethic 15w50           |
|             |               |  |                                 | 610.2         | And 6.002 evens or Addition LW -16702 Added                 |
|             |               |  |                                 |               | of this time. Also oil strainer was remove and              |
|             |               |  |                                 |               | no ference Marticles found at this time. Installed strainer |
|             |               |  |                                 |               | as reduced onk steel and no leak found as per AMM.          |
|             |               |  |                                 |               | ELO. R. S. 598098517  |
|             |               |  |                                 |               | (AGA)   |

| 4                                      | INSPECTION & MAINTENANCE RECORD  |  |          | INSPECTION & MAINTENANCE RECORD |  |  |
|--|--|--|----------|---------------------------------|--|--|
| ¥\$=                                   | DATE TOTAL TIME  | INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.   | DATE     | TOTAL<br>TIME                   | INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO. |  |
| *:/-                                   | 08-2747 477.7  | Charged Spack plans. Performed compression tost = \$1-1480,    | 04/13/98 | 509.5                           | Oil drained ifilled with Shell Semi-Sintelic 15 w-50         |  |
|  |  | 2- 980, "3- 1/80, 4- 1/80 Charles magneto timing and found     |          | 01 1 1                          | and 6.0 Fl. 02. engine oil additive LW-16702.011 strainer    |  |
| ×:-                                    | A STATE OF THE STA | to be Ok. Drained oil and Reserviced with Assochall 5-50       |          |                                 | remove & check clean- no foreign particles found.            |  |
| 14-                                    | 1100   | somisynthetic and Lycomains addit 50#1 41-16 7000 Fred Rumpaul |          | \ .                             | Ehird O. Paris below 598-09-8517                             |  |
| ) <sup>(-</sup>                        |  | Legal Charles Old U as 07 hill 103 (029                        |          |                                 | 7 07   |  |
| 1                                      |  | Moto: also changed wie Filtsa, Engere Jell 1876028             | 08/26/98 | 524,3                           | I centify that This Engine has been Inspected                |  |
| \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ |  |  | Compres  | Sion PERT:                      | I.A.W. 100 hz ANNUAL Inspection And Found                    |  |
| 7-                                     | A SEPTIMENT OF THE SEPT |  | #1       | 80/78                           | ANOWORTHY. Air CLEANER AND SPARE Plugs RiR W/NEW.            |  |
|  | Alica Arth   |  | #2       | 80/76                           | Rocken Box RETURN LINE HOSES RER W/NEW. ROTON CRAFT          |  |
|  |  |  | #3       | 30/78                           | WAS ground RUN FOR OPERATIONAL AND LEAK Check,               |  |
| 1.                                     |  |  | #4       | 30/76                           | Flight Check Made And Found SATIS FACTORY.                   |  |
| 11-                                    |  |  |          | •                               |  |  |
| <u>"</u> //—                           |  |  |          |                                 | J. h - A.P J.A. 582984825                                    |  |
|  |  | Aporting the cold has been                                     |          |                                 |  |  |
|  |  | Certify that this expenses an 100 auxiliary                    | 5/12/99  |                                 | Oil danied filled with Shell Son Sufetic 15 w-50             |  |
|  |  | Inspection and was determined to be in                         |          |                                 | and 6.0 Fl. oz. engine oil additive LW-16702. Oil            |  |
|  |  | airworthy condition.   |          |                                 | Stranger was remove of clean - NO forening particles found.  |  |
|  |  | Date St. 17 Title 1719 Hobbs 1719                              |          |                                 | 8/il O. K. fil 598-09-8517                                   |  |
| W.B.                                   |  | Signed howard while 1876000                                    |          |                                 | (AP)   |  |

|                 |  |                                 |               | MANAGEMENT AND TAXABLE AND TAX |
|-----------------|--|---------------------------------|---------------|--|
| IN              | NSPECTION & MAINTENANCE RECORD                               | INSPECTION & MAINTENANCE RECORD |               |  |
| DAYE TOTAL TIME | INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO. | DATE                            | TOTAL<br>TIME | INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.   |
| 11-7-95 380.6   | I centify MAT This Bong, NE has been                         | 7-15-96                         | 422.2         | I ceeting That This Rugine was Inspected I.A.W.  |
| <del></del>     | Laspected I.A.W. 100 hn ANNUAL AND                           |                                 |               | 100 hr / ADNOSL INSPECTED AND FOUND AIRWORTHY.   |
|                 | Tound to be in thewarth lond tow                             |                                 |               | Details and Hil Aulation Discrepancy L'ST DATED 7-3-96.  |
|                 | SPARIC Plags RGR W/Reconclitioned Air Cleaner                |                                 |               | BOTH MAGNETOS ROR AND HARNESSES RIR N/ NEW   |
|                 | KCK W/ New. Die Drived Scheen Ingleeted                      |                                 |               | DOE to INSTAllation OF GOVERNOR OPGRADE KIT  |
| /               | AND SERVICED W/ APROCHELL 15/50                              |                                 |               | Di Darinca Screen Inspected And Cleaned And Serviced w/  |
| C               | 10 m/mession Check: #10/76 # 20/24# 3 78# 4 /74              | <u> </u>                        |               | Acroshell Seami. SynThetic 15 w/50 And hyloming Additive LW16702.  |
|                 | 73 Ch - ASP/I.A. 582984825                                   |                                 |               | Compressed Test: #1 75/80 #2 76/80 #3 73/80 #4 76/80.  |
| 03/1-6          |  |                                 |               | ROTORCERTH WAS GROWN ROW AND TEST Flight Performed. Operational  |
| 03/15/96 408.6  | Dil change with shell semi Sintetic 15 w-50                  | 1                               |               | And Lesk Check Satisfactory.   |
|                 | And oil additive. Efilo. P. fil                              |                                 |               | 77 Ch. AEP I.A. 582984825  |
|                 | P. 598 - 09-8517   |                                 |               | 0  |
|                 | · · · · · · · · · · · · · · · · · · ·                        | 597                             | 462.5         | Oil change with Shell Semi-Sintetic 15w-50 And   |
|                 |  |                                 |               | 01 Additivé Eliel O. V. fil P-598-09-8517  |
|                 |  |                                 |               |  |
|                 | Y  |                                 |               |  |
|                 |  |                                 |               |  |
|                 |  |                                 |               |  |

| 2           |               | INSPECTION & MAINTENANCE RECORD                              |           |               | INSPECTION & MAINTENANCE RECORD                              |
|-------------|---------------|--|-----------|---------------|--|
| DATE        | TOTAL<br>TIME | INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO. | DATE      | TOTAL<br>TIME | INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO. |
|             | 1             | 1 CERTIFY THAT THIS Engine has                               | _10-05-94 | 307.9         |  |
| v           | 1             | 100 HE ANALYS IN ACCORDANCE WITH A                           |           |               |  |
| ,           | 1             | TO BE IN AIRHOSTHY CONDITION.                                | 01/10/94  | 328           | Oil chance with Shell some sintete. 15-50                    |
|             | 1             | DATE-10/11/94 AIRCRAFT T.T. 307.9                            |           |               | and oil orline 5. U. Il                                      |
| ş           |               | ENGINE TIME 30709  | 02/03/95  | 335.0         | Complied with SIB SIB, inspection of oil pressure            |
|             | 1             | MECHANIC- Luyar Sall CERT: NO: 1876028:                      | _         |               | bypass yolve, In stalled serviceable value assyo             |
| 1 \$5/94    | 307.9         | Alamoved TR gearbox 5/N 2415 and send to                     |           |               | Teak chack Roawined for this and for oil changes.            |
|             |               | Cau Air inc. for compliance with AD 94-17-07                 |           |               | Europe Sell 18760  |
|             | 1             | The conguence with AD 74-1101                                | 5         |               |  |
| 10/07/94    | 307.9         | Fleinstolled TR gentox S/N 2415 IAW. R.H.C. want name        | 02/07/55  | 337.0         | Oil change unth shell some safetic 15-50                     |
|             |               | 1 19AT + Ups along OV Coll                                   | 7/        |               | and oil riddidice Gild                                       |
|             |               | Flight + Ops. check O.K. Subs. 1 147 5 53 576731             |           |               |  |
|             | +             | Entered write up in error see aironames logbook. At 27       | 03/15/95  | 34()          | Installed New njagneto S/N 334 0007 B/H sit                  |
|             |               |  | 7         |               | Enc Run up ok # 10 6 578-09-8517.                            |
| 4           |               |  |           |               |  |
| 1           |               |  | 8/10/95   | 370.6         | Oil change with Shell Simi Sintedic 15-50                    |
| <del></del> |               |  |           |               | and oil addition Gilidel                                     |
|             |               |  |           |               |  |

The second secon

| INSPECTION & MAINTENANCE RECORD                  |                        |   |          | INSPECTION & MAINTENANCE RECORD |  |  |
|--|------------------------|---|----------|---------------------------------|--|--|
| DATE   | TOTAL                  | INSPECTION OR MAINTENANCE PERFORMED   | DATE     | TOTAL<br>TIME                   | INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.   |  |
| 01/28/93   | 162                    | AGENCY & CERTIFICATE NO.  | 9/15/911 |                                 | Completed so he check - Oil desined, filled with   |  |
| 7272   | 702                    | Oil change mobil 1, Clean spark   | 1/13/11  |                                 | 5.5 Ats. Nobil AV. 1 SynTheTre 20W50 And 6.0 Fl. 02  |  |
|  |                        | plugs, check bothering.   |          |                                 | Engine oil additive LW-16702. Oil-STRAINER RE-   |  |
| 06/01/93   | 100                    |   |          |                                 | The state of the s |  |
| 25/10/05   | 198                    | Oil Change mobil 1, dean qui filter gilly   |          |                                 | Removed + installed (6) OVER hauled REM 40E SPARK-   |  |
|  | 30/18 /19              | TO BERTIFY THAT THIS ENGINE HAS   |          |                                 | plugs Battery check SERVICED. AIR filter deaned.   |  |
|  | 718 /19<br>80/18 80/18 | SEEN HASPERTED IN PREPROMER WITH A  |          |                                 |  |  |
| 1, [43)  | 80/13 80/18            | 100 MR (AURULITED 19 19 19 19 TETERMINED MOUL   |          |                                 |  |  |
| 9/10/93  |                        | 86 86 44 V'EARE   |          |                                 | Gaigini was Ryn and checked for leacks - O.K.  |  |
| <del>'                                    </del> |                        | DATE-09/10/93 14867 AFT 1.1. 220.0  |          |                                 | This operation performed dollowing tobinson Service Junya  |  |
|  | <u> </u>               | ENGINE TIME- 220,0  |          |                                 | GIOVANNI 6. SCIOTTO  |  |
|  |                        | MECHANIC-Engre SSI CERT. MOB (876028  |          |                                 | ALP 584424494 I. A.  |  |
| 01/05/04   | 0.40                   | additive  |          |                                 | the state of the state of  |  |
| 01/25/02   | 248                    | Oil change probil , clean qui liller &  | 10-07-94 | 307.9                           | Removed 44 mg. (shaft seal leak) + installed new magnets   |  |
|  |                        | spark blue check ( 11 Till  |          |                                 | 5/N 93110007. Auth of ATP 503575734  |  |
| //   |                        | 1 31 Ellech battery Ser   |          |                                 |  |  |
| 04/05/94   | 274                    | oil change mobil I with allitives A   |          |                                 |  |  |
| 3 dinel  | 296.U                  | Trustalled No. 1 aug  |          |                                 |  |  |
|  |                        | RIH Sit Chien Runes OK My -0  |          | ĺ                               |  |  |
|  |                        | Demand of the contract of the |          | _                               |  |  |

# INSPECTION & MAINTENANCE RECORD INSPECTION OR MAINTENANCE PERFORMED

| DATE     | TOTAL<br>TIME | INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.  |  |  |  |
|----------|---------------|---|--|--|--|
| 09/11/91 | 45            | al change with shell mineral oil                              |  |  |  |
| 02/1/92  | 92.4          | Portonned in This Eng. 100 has forg. in accordance            |  |  |  |
| 272772   | 72. (         | with Ly coming maintenance manmoul. Inspected & Cleaned       |  |  |  |
|          |               | 0:2 Filten, Anspected and Exerned The Spank plags. Cylinder.  |  |  |  |
|          |               | Con press Tested #180/80 #2 84/80 #3 80/80 \$ #4 80/80. Prion |  |  |  |
|          |               | To This Inspection eng. oil was changed by owner 4 has before |  |  |  |
|          |               | This Inspection. I centify That This cong. was found in       |  |  |  |
|          |               | ainwenthy Condition. Joh. Vien Pain App 83460138 -            |  |  |  |
| 07/12/92 | /32           | 01 abouse /mobil 1 20-50 S.U.D                                |  |  |  |
| 7-7-     |               |   |  |  |  |
|          |               | 1 100   |  |  |  |
|          | (             | L certify I have inspected this Zarabil                       |  |  |  |
| ,        | ,             | in accordance with a fund and found                           |  |  |  |
| 9/21     | 92            | it in airworthy condition. Tach reading                       |  |  |  |
| 1/2/     |               | time 192.0 Engine time 182.0 Aircraft                         |  |  |  |
|          |               | Affilia Communication and the second                          |  |  |  |
|          |               | AT A&P-130982   |  |  |  |
| 200      |               |   |  |  |  |

#### **ENGINE DESCRIPTION**

| MANUFACTURER TEXTOY               | 1-Lycoming.     | MODEL 0-320-620     |  |
|-----------------------------------|-----------------|---------------------|--|
| SERIAL NUMBER _ L -16878          | DATE OF MANUFAC | CTURE 4011 19, 1991 |  |
| RATED BHP                         |                 | MANIFOLD PRESSURE   |  |
| FUEL REQUIRED OCTANE/PERFORMANCE_ | 100 LL          |                     |  |
| REGISTERED OWNER                  |                 |                     |  |
| STREET & NO                       |                 |                     |  |
| CITY, STATE, ZIP                  |                 |                     |  |
| REGISTERED OWNER                  |                 |                     |  |
| STREET & NO.                      |                 |                     |  |
| CITY, STATE, ZIP                  |                 |                     |  |
|                                   |                 |                     |  |
|                                   |                 |                     |  |