

HELICOPTER INC.**Cahokia, IL 62206**

Date: 25 August 2021
 Aircraft: N6BU
 Serial No: 4034
 Maintenance Hobbs: 4,383.8

Aircraft TT: 15,503.5
 RINS: n/a
 Engine TT: 10,498.5
 Engine Cycles: 11,480

I certify that this aircraft has been inspected in accordance with a 100 hour inspection as per BHT-206A/B Series-Maintenance manual rev 17 dated 10 April 2020 and check list and was determined to be in an airworthy condition. The following work was accomplished:

- Complied with AD2021-11-01 Rotorcraft flight manual revision and dual tach placard was verified that the correct flight manual revision was installed and correct placard was installed under the dual tach indicator. **No additional action required.**
- Complied with Bell Helicopter Alert Service Bulletin 206-21-139 Tail rotor driveshaft 206-040-330-003/-101, 206-040-931-009/-011/-101/-103, 206-040-365-101/-105/-121/-123 with Bounded Adapters, Proof of Load Test of rev A dated 21 August 2020 part I. No discrepancies noted at this time. **Part I due again at aircraft total time 15,803.5 or August 2022.**
- Complied with Bell Helicopter Alert Service Bulletin 206-21-140 Main Rotor Blades P/N 206-010-200-133-137/-139 Grip Plates and Root End Doublers Inspection of dated 16 November 200 parts I. Installed blades are not affected due to serial numbers installed (A-7238 and A-7208). No additional action required.
- Complied with Bell Helicopter Alert Service Bulletin 206-21-141 Main Rotor Pitch link Assembly 206-010-360-001/-003, Inspection and application of Torque Seal Lacquer dated 8 February 2021 parts I and II. No discrepancies noted at this time. **Part II due again at 300 hours or 12 months Aircraft TT: 15803.5 hours or August 2022.**
- Complied with Bell Helicopter 100 hour/12 month airframe periodic inspection. (5-20)
- Complied with all Bell Helicopter airframe 50/100/300 hour and 12 month lubrication requirements. (Table 12-6)
- Complied with all Rolls-Royce engine 150/300 Hour inspection requirements as per RR 250-C20 O&MM rev 25 dated 1 June 2020 and check list (table 603).
- Complied with Rolls-Royce 300 hour/12 month Nicad oil filter change. (STC# SH200GL)
- Complied with Rolls-Royce 600 hour/12 month engine oil change. Serviced with Mobil 254 oil.
- Complied with Rolls-Royce and Purolator 600 hour Nicad filter bypass check. (STC# SH200GL)
- Complied with Rolls-Royce 600 hour #1 bearing reducer cleaning /inspection. (Para 3.72-30-00)
- Complied with Rolls-Royce 600 hour PC air filter cleaning /inspection. (Para 3.73-20-06)
- Complied with Bell Helicopter 200 hour/12 month transmission oil and filter change. Serviced with Mobil Jet II oil. (12-3)
- Complied with Bell Helicopter 200 hour/12 month tail rotor gearbox oil change. Serviced with Mobil Jet II oil. (12-3)
- Complied with Bell Helicopter 300 hour airframe inspection. (5-29)
- Complied with Bell Helicopter 300 hour hydraulic filter change. (Table 12-5)
- Complied with Bell Helicopter 300 hour/12 month oil cooler and blower cleaning. (Table 12-7)
- Complied with Bell Helicopter 300 hour/12 month hydraulic fluid change. Serviced with Royco 756 hydraulic fluid. (Table 12-5)
- Complied with Bell Helicopter 300 hour/12 month input driveshaft inspection /lubrication by replacing drive shaft assembly P/N 206-040-015-107 S/N A2-01777 ATSI: 218.9 date inspected May 2020. (63-12) installed inspected assembly shaft P/N 206-040-015-107 S/N A20-01257 TSI: 0.0. (63-20)
- Complied with Bell Helicopter 12 month inspection (fuel, and Airframe). (5-33)
- Complied with Bell Helicopter 12 month component operation inspection (main rotor mast). (5-34)
- Complied with Bell Helicopter 24 month night control bolts and nuts inspection. (5-35)
- Complied with Bell Helicopter 1200 hour/24 month component operation (Tail rotor control tube). (5-40)
- Complied with Van Horn Tail Rotor blade 100 hour/12 month inspection ICA. (STC# SH4083SW)
- Complied with Van Horn Tail Rotor blade 300 hour inspection ICA. (STC# SH4083SW)
- Complied with Bristol Routine (100 hour/12 month) inspection Wire Strike Cutter as per document ER 96012 appendix A. (STC# SH4083SW)
- Complied with AAI 300 hour/12 month Skid tubes protection kit ICA inspection. (STC# SR00153LA)
- Complied with L-3 Lynx NGT-9000 100 hour/12 month ICA inspection. (STC# SR02471AK)
- Complied with Aircomm 12 month cabin heater ICA inspection. (STC# SH3887NM)
- Complied with Teledyne Continental Battery Products Gill Battery 18 month/1800 hour ICA inspection by OCV check in accordance with Teledyne Battery Component Maintenance Manual document number Q01-1101 revision J dated 8 June 2016 section 7.2 for battery P/N 7641-20 S/N G03028325 TSN: 383.2 Installed 9 October 2019 voltage was 25.2 volts and is above 75% by chart figure 1. (STC# SR01406LA)
- Complied with a monthly Fire extinguisher inspection (August) Model RT-A600 S/N Y-494520 date of manufacture 2019. No defects noted at this time.
- Complied with a 12 month Fire extinguisher inspection weighing Model RT-A600 S/N Y-494520 date of manufacture 2019. Weight was 733 grams. No defects noted at this time.
- Aircraft gearboxes serviced with Mobil Jet II oil and engine was serviced with Mobil Jet 254 oil.

The following additional work was accomplished:

- Removed all ENG equipment and wiring. Including pilot shelf, copilot shelf, left and right rear ENG boxes, and baggage box. Reference 337 dated 8-24-2021.
- Removed all Troll microwave system and microwave transmitter. Reference 337 dated 8-24-2021.
- Removed Flir camera system and Flir nose camera mount STC# SR00348SE. Reference 337s dated 8-24-2021.
- Installed Garmin audio panel model GMA-350 P/N 011-02385-20 S/N 1UF100767 in radio rack as per Garmin installation manual P/N 190-01134-11 revision L dated 2020. Reference 337 dated 8-24-2021.
- Removed spider tract and all wiring. Reference 337 dated 8/24/2021.
- Removed serviceable Pulse Light Kit P/N 1220 S/N T01043 and all wiring STC# SA4005NM. Reference 337 dated 8-24-2021.
- Removed serviceable flight steps for convenience, to send to N5QP in Detroit. Kit P/N 206-332-100. LH step S/N 606. RH step S/N 606. STC# SH1322SO. Reference 337 dated 8-24-2021.
- Relocated Gill aircraft battery G641S P/N 7641-20 to nose as per Teledyne Battery Products STC# SR01406LA. Relocated battery relay from baggage back to nose. Reference 337 dated 8-24-2021.
- Installed Air Chuck Inc. landing light cover in accordance with STC# SR00624AT. Reference 337 dated 8-24-2021.
- Installed lower wire strike cutter assembly in accordance with Bristol Aerospace STC# SH4083SW. See 337 dated 8-24-2021.
- Removed serviceable Comm radio KY196A PN 064-1054-30 SN:9387 for conv Installed serviceable (tested) KY196A P/N 064-1054-30 S/N 21218.
- Removed fuel cap P/N 416-50 and sent to Detroit for N5QP Installed serviceable fuel cap P/N 416-50.
- **Removed engine governor P/N 23065121 S/N 26796 TSN: unknown TSO: 1,070.6 to return as core. Installed governor P/N M250-10844 S/N 25722 TSN: UNK TSO: 404.0** In accordance with Royals-Royce M250-C20 Operations and Maintenance Manual 73-20-01 Rev. 25
- Directional gyro units face is dislodged. Sending PN 066-3046-01 SN 33879 in for repair. Installed KI525A P/N 066-3046-07 S/N 89577.
- Install Davtron clock model 800 SN D42442.

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OWNER

- Remove serviceable Lynx NGT-9000 P/N 9029000-20000 SN LXE00757 to send to Hayward, CA for install in N7QY. Installed Modified transponder Lynx NGT-9000D P/N 9029000-20000 S/N LXE12940 with media P/N 902001-011 R 04.00
- Tail rotor preload was loose. Change thrust plugs P/N 206-011-862-101 to tighten pre load in accordance with BHT-206A/B/L Series CR&O
- Transmission oil pump leaking. Removed oil pump P/N 206-040-184-001 B S/N CC 2051 TSN: unknown. Installed repaired pump P/N 206-040-184-001 FM S/N OHS911 TSN: unknown.
- Left rear door has crack on stiffing flange just above the bottom latch. Door was repaired with 3.5 inch doubler as per Georgian Aerospace drawings 90G-759ZM001 rev IR dated 17 March 2015.
- Aircraft painted TV station logos were removed by stripping side skins bare aluminum was etched and Alodine aircraft was finished to match existing paint scheme PPG Deltron 2000 with the following colors:
Primer- DP40LF Red DBC-6252 Black-DBC-35509 White- DBC 91040 Clear-DCU2021
- Aircraft was weighed and weight and balance was updated. Installed 28 pounds ballast at station number 13. Reference weight and balance dated 19 August 2021. Optional equipment list was updated Reference optional equipment list dated 19 August 2021.
- Reference 337s dated 24 August 2021.

Serviced engine gear box with Mobil 254 oil.

Serviced transmission and tail rotor gear box with Mobil Jet II oil.

Performed engine pneumatic system leak check. No leaks or defects found at this time. (para 2.B 73-00-00)

Complied with Bell Helicopter after fuel maintenance check 2 min with no fuel boost pumps and 10 gallons of fuel. Aircraft was ran at 100% with fuel boost pumps off. No discrepancies noted (5-46)

Complied with Rolls Royce check run engine for governor replacement. (Para 1 72-00-00)

Performed ground run and leak check of aircraft. No defects noted at this time.

Dynamically balanced tail rotor with Micro Vibe to within Bell Helicopter limits. (08 ips). (206A/B-series-MM 18-52 thru 60)

Aircraft is approved for return to service for work performed above and operational flight test and dynamic balance of main rotor.

Authorized Signature_ Donald R Roesch

Date: 25 August 2021

Helicopters Inc.

FAA CRS DDZR151D

Bell 206B III N#: N6BU S/N: 4034 ACFT T.T: 15,504.0 HOBBS: 4,384.3 Date: 25 August 2021

I certify this aircraft has been operationally flown in accordance with FAR 91.407, and is in condition for carriage of passengers.

Pilot: Rob Leeling

Cert. #:

Aircraft main rotor was dynamically balanced with RADS and was found to be with-in Bell Helicopter limits. (18-6 thru 18-31)
Complied with magnetic compass swing with all radios on and update correction card dated 25 August 2021.

Torque checks and special inspections due:

- Main rotor mast nut due 1 to 5 hours at aircraft total time of 15,504.5 to 15,507.5 hours. (5-48)
- All tail rotor disc packs due torque check at 10-25 hours, due at aircraft total time 15,513.5 to 15,528.5 hours. (5-49)

Torque wrenches used: P/N PNTWM200A S/N V020138, P/N ATECH3F300HB S/N 0520100280, P/N C4D600F S/N 50124
This aircraft is being maintained in accordance with FAR 91.409(f)(3).

This aircraft has been inspected and repaired in accordance with current civil air regulation, and has been found to be in an airworthy condition. Aircraft is approved for return to service for the work performed above. Pertinent details for the work performed are on file at this location under W.O.# WP1376.

Authorized Signature_ Donald R Roesch

Date: 25 August 2021

Helicopters Inc.

FAA CRS DDZR151D

END

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BEI

Model # NGT9000D+ Serial # LxE12940
 Aircraft N 6BU Date: Aug 25 2021
 Transponder system tested in accordance with part 43, Appendix
 "F" & Appendix "E", Subpart (c) for compliance with FAR 91.413.
 Signature: [Signature] Work Order # 11555
 MUELLER AVIONICS, INC. CRS # QYVR044J

DATE TAKEOFF HP ALT LAND ALT FLT TIME BRGT. FWD NATURE OF FLIGHT

Model # 5035P2-P27 Serial # 22591
 Aircraft N 6BU Date: Aug 25 2021
 Altitude, Altitude Reporter & Static System tested in accordance
 with Part 43, Appendix "E" for compliance with FAR 91.411
 Altitude Tested to 20Kft Work Order # 11555
 Signature: [Signature]
 MUELLER AVIONICS, INC. CRS # QYVR044J

R LOG

HELICOPTER

Mueller Avionics N6BU			
P/N 5035P-P27		CRS #QYVR044J	
ALT	ERROR	ALT	ERROR
FT		FT	
-1000	+20	16000	+20
0	+20	18000	+30
500	+10	20000	+20
1000	+10	22000	
1500	+10	24000	
2000	+10	26000	
3000	+10	30000	
4000	+10	35000	
6000	+10	40000	
8000	+20	45000	
10000	+10	50000	
12000	0	Hys 50% 50%	+20
14000	+10	Hys 40% 40%	+20
		Zero	0
Date 8/25/21			

MARKS, SIGNATURE & LICENSE NO.

HELICOPTER

Cahokia, IL 62206

Date: 10/21/2021

Aircraft: N6BU

Serial No: 4034

Maintenance Hobbs: 4384.3

Aircraft TT: 15504.0

RINS: NA

Engine TT: N/A

Engine Cycles: N/A

Complied with a monthly fire extinguisher inspection for September and October 2021 for fire extinguisher Model RT-A600, no defects were noted at this time.

I certify this aircraft has been inspected and or repaired in accordance with current code of Federal Aviation Regulations and has been found to be in an airworthy condition. This aircraft is approved for return to service for the work performed above. This aircraft is being maintained in accordance with FAR 91.409(f) (3) current inspection program recommended by the manufacturer.

Authorized Signature

Date: 10/21/2021

A&P

END

TOTAL ENGINE TIME

HELICOPTERS INC.**Cahokia, IL 62206**

Date: 11/01/2021

Aircraft: N6BU

Serial No: 4034

Maintenance Hobbs: 4385.2

Aircraft TT: 15504.9

RINS: NA

Engine TT: 10499.9

Engine Cycles: 11506

Complied with a monthly potable fire extinguisher inspection IAW BHT-206A/B-Series-MM-3 chapter 26.

Installed inspected Bell Dual Controls, Quick Disconnect Kit P/N#206-706-127-115 in accordance with Service Instructions #BHT-206-SI-67. See FAA Form #8130 from Helicopters Inc. Dated: 10/29/2021. Updated weight and balance and equipment list in flight manual.

Installed overhauled engine driven fuel pump assy. P/N# 6899253, S/N#T110590 TSO: 0.0 hours. TSN: 3954.75. Overhaul by Accurate Accessories under WO#210880. See FAA Form #8130 dated: Sep/27/2021. Removed S/N#SERT110353. Installed IAW the Rolls-Royce M250-C20-MM-Rev.25. Installed overhauled swashplate assy. P/N#206-010-450-113, S/N#RE-JG90711. TSO:0 hours, TT:20642.9 hours. Includes Lever P/N#206-010-467-105, S/N#REFS5501 TSN:2464.9 hours. Link P/N#206-010-407-001, S/N#REFS7044 TSN:2464.9 hours. Overhauled by Helicopters Inc. under WO#OHS2739. See FAA Form #8130 dated: Oct/29/2021. Installed IAW BHT-206A/B-Series-MM-6 chapter 62.

Installed new left engine cowl door center latch P/N#90-015-040-091.

Installed new fuel control to fuel pump line assembly P/N#6859172.

Repaired small corrosion area on servo cowl right door IAW #CSSD-PSE-87-001 Corrosion Control Guide. Painted to match aircraft.

Calibration list of tools used: Torque wrench #TWZ600P, S/N#2421. Cal Due: 09/13/2022. Torque wrench #QD1R200 S/N#0220906830 Cal Due: 1/31/2022.

M/R mast nut 1-5hr. torque check due @ ACTT: 15505.9 – 15509.9 hours.
Swashplate tilt friction 10-25hr. check due @ ACTT: 15514.9-15529.9 hours.

Performed ground run and leak check of aircraft. No defects noted at this time.

This aircraft has been inspected in accordance with current regulations of the Federal Aviation Administration and has been found to be in an airworthy condition, and is approved for return to service for the work performed above following an operational flight test. This aircraft is being maintained in accordance with FAR91.409 (f) (3), current inspection program recommended by the manufacturer.

Authorized Signature

FAA CRS DDZR151D

AC Type: Bell 206B3

N#: N6BU

SN#: 4034

ACTT: 15506.2

Hobbs: 4386.5

Date: 11/03/2021

I certify that this aircraft has been operationally test flown in accordance with FAR 91.407 and is in condition for the carriage of passengers.

PILOT NAME:

Rob Leeping

CERT:

[Signature]

PILOTS SIGNATURE:

[Signature]

Date:

11/3/21

Complied with M/R mast nut 1-5hr. torque check. (No movement noted).

The aircraft identified above was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service for the work performed. This aircraft is being maintained in accordance with FAR 91.409(f) (3) current inspection program recommended by the manufacturer. Pertinent details of the work performed are on file at this repair station under WO#: WP1515

Authorized signature:

Date: 11/03/2021

FAA CRS# DDZR151D

END



A Textron Company

PO BOX 482 - FORT WORTH, TEXAS 76101

HELICOPTER LOG

OWNER _____

REGISTRATION NO. _____

MODEL _____

MFGR'S SERIAL _____

N6BU SN: 4034 DATE: 12-30-2021 HOBBS: 4395.2 ACTT: 15,514.6 ENG TT: 10509.6 CYC: 11510

100 HR. INSP. DUE

1. INSTALLED AEROMETALS ENGINE INLET BARRIER FILTER SYSTEM PN:1206IN1-1601 SN:0893 IAW INTC FAA STC SR00180SE & INSTALLATION INSTRUCTIONS 1206-INST-1, DRAWINGS SEE FAA FORM 337.
2. LUBED AND INSTALLED FILTER ELEMENT ASSEMBLY PN: 1206A2-541R/1206A2-541L SN: 10266
3. INSTALLED FLIGHT MANUAL SUPPLEMENT NO 1206-1200 REV G INTO ROTORCRAFT FLIGHT MANUAL
4. UPDATED WEIGHT AND BALANCE.

VINCE VINCENT A&P [REDACTED] IA

HELICOPTER LOG

REPAIRS, ADJUSTMENTS, PARTS REPLACED, REMARKS, SIGNATURE & LICENSE NO.



March 4, 2022 Registration N6BU Make: Bell Model: 206B SN: 4034
Aircraft Total Time: 4396.5 Meter: 4396.5

Installed STC No. SH4796NM 3900-206 Isolair Innovator II Spray System Model 3900-206 per Isolair Installation manual No. 392061NS Rev. D, Bell 206 MM and AC43.13-1B. Installed DynaFlight 3 Aerial Application Guidance and Management System per DynaNav installation manual. Performed post installation checks, no defects noted. Post installation flight check required to qualify and verify satisfactory operational performance up to the Isolair FMS speeds to include autorotational ability. Completed by Brandon Nau Cert. Com4015744 on 3/2/2022. Weight and balance adjusted for the installation of the Innovator II Spraying System and entered in the aircraft records. Flight manual supplement was inserted into the rotorcraft flight manual. This installation has been functionally inspected in accordance with FAR 27.1301 and does not interfere with and other equipment currently installed.

Aircraft is now in the RESTRICTED CATEGORY.

This Airframe and/or Article identified above has been inspected and repaired with manufacturer or current FAA regulations and are approved for return to service

Steve McCaffery

AP

IA

Date: 3-4-2022



March 4, 2022 Registration N6BU Make: Bell Model: 206B SN: 4034
Aircraft Total Time: 4396.5 Meter: 4396.5

Discrepancy:

RH chin bubble replacement

Corrective action:

Removed broken chin bubble and installed new bubble PN: 206-542-012 per Bell 206 MM 52-48.

This Airframe and/or Article identified above has been inspected and repaired with manufacturer or current FAA regulations and are approved for return to service.

Austin Cordova

857474AP

Date: 3-4-2022

TOTAL ENGINE TIME

HELICOPTER LOG

OWNER _____

REGISTRATION NO. N6BU

MODEL 206B3

MFGR'S SERIAL _____

25 HR. INSP. DUE

100 HR. INSP. DUE

DATE	TAKEOFF		LAND		FLT TIME		NATURE OF FLIGHT AND LOCATION	HELICOPTER LOG
	HR.	MIN.	HR.	MIN.	BRGT.	FWD		
					HR.	MIN.		REPAIRS, ADJUSTMENTS, PARTS REPLACED, REMARKS, SIGNATURE & LICENSE NO.
								① 6-21-22 Operational flight check + engine power check due for compressor chg. acct. 4417.5 [Signature] AP [Signature] IA
								② 6-21-22 Ground run leak ck due before flight for compressor chg. 4417.5 [Signature] AP [Signature] IA
TOTAL FLIGHT TIME								

DATE	GROUND TIME		AIR TIME		# 1 ENG TIME		# 2 ENG TIME		START CYCLES		ENGINE LOG	# 1 ENGINE SERIAL NO.
	HR.	MIN.	HR.	MIN.	BRGT.	FWD	BRGT.	FWD	# 1	# 2		REPAIRS, ADJUSTMENTS, PARTS REPLACED.
												SIGNATURE & LICENSE NO.