

# National Transportation Safety Board

Office of Aviation Safety

Washington, DC 20594



ANC22FA041

## **MAINTENANCE RECORDS**

Group Chair's Factual Report - Addendum

April 16, 2024

## **A. ACCIDENT**

Location: Kalea, Hawaii  
Date: June 8, 2022  
Time: 1726 Hawaii-Aleutian standard time  
Helicopter: Bell 407, registration N402SH

## **B. SUMMARY**

On June 8, 2022, about 1726 Hawaii-Aleutian Standard Time, a Bell 407 helicopter, N402SH, operated by K & S Helicopters doing business as Paradise Helicopters, impacted a lava rock field near Kalea, Hawaii (HI) after an inflight separation of its empennage. On November 9, 2022, members of the Airworthiness Group examined the accident helicopter wreckage stored at Ellison Onizuka Kona International Airport (KOA) on the island of Hawai'i.

## **C. ADDITIONAL INFORMATION**

The accident helicopter, N402SH, was airframe serial number (S/N) 53118. Section 6.0 of the Maintenance Records Factual Report provided information on the installation of a new tail boom assembly, S/N BP-1598 that was referenced from its component log card (**Appendix A, Figure A-1**). According to the component log card, the tail boom assembly was installed new onto airframe S/N 53118 on August 23, 2009, at an aircraft total time (ATT) of 5,780 hours.

A copy of the accident helicopter's logbook page that contained the maintenance entry for installation of new tail boom S/N BP-1598 showed the tail boom was installed new onto airframe S/N 53118 on August 23, 2006, at an ATT of 5,980.1 hours (**Appendix A, Figure A-2**).

Submitted by:

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Aerospace Engineer - Helicopters



K & S HELICOPTERS, Inc.										AIRCRAFT FLIGHT LOG	
D.b.a. Paradise Helicopters D.b.a. Tropical Helicopters		A/C MODEL: BELL 407				N # 402SH		A/C SN 53118		ENG SN: CAE-847132	
PILOT	TYPE FLIGHT	LNDG	SLD	CYC	RIN	END HOBBS	FLIGHT TIME	POWER CHECK DAILY	AIRCRAFT INSPECTIONS		
/								PA _____	AD's25 HR @	6005.1	
								OAT _____	Engine150 HR @	6130.1	
								TORQUE _____	300 HR @	6280.1	
								MGT _____	NEXT COMPONENT DUE:		
								N 1 _____	@	@	
TOTALS FOR TODAY											
	ENG	LNDG	SLD	CYC	RIN	HOBBS	ACFT TT	COMPRESSOR WASH	OIL ADDED		
TIME FWD	5980.1			5811		5980.1	5980.1		ENG		
TODAY'S									XMSN		
T T EOD								INITIALS	TRGB		
#	DISCREPANCIES / SIGNATURE					#	CORRECTIVE ACTION / SIGNATURE / CERT. #				
(1)	Removed Tail Rotor Gearbox PN:406-040-400-117FM, SN:A-754 TSN:5980.1 TSO:3553.1 for O/H. 22 Aug 2006 ACT: 5980.1 [Signature]					(1)	Installed TR Gearbox PN:406-040-400-117FM, SN:A-754 TSN:5980.1 TSO:0.0 07 Sept. 2006 ACT: 5980.1 [Signature]				
(2)	Removed Tailboom PN:407-530-014-101, SN:53119 TSN:1790.9 TR:209.1 Serviceable for maint-conv. 22 Aug 2006 ACT: 5980.1 [Signature]					(2)	Installed Tailboom PN:407-530-801-205D, SN:EP-1598 TSN:New, 23 Aug 2006 ACT: 5980.1 [Signature]				
(3)	Removed Turbine PN:23063354, SN:CAT-44907 TT:2012.1 / TSO:1835.7 / TC:1751 for 1st 2nd whl Retire. 23 Aug 2006 ACT: 5980.1 [Signature]					(3)	Installed Turbine PN:23063354, SN:CAT-44188, TSN:3743.6 TSO:0.0, CSN:3892, CR 3000. 08 Sept. 2006 ACT: 5980.1 [Signature]				
(4)	Removed Lower HALL PN:23078031, SN:JGALM0241 TSN:1403.4, 08 Sept 06 ACT: 5980.1 [Signature]					(4)	Installed Hydromechanical Unit PN:23078031 SN:JGAMT0567, TSN:1702.4, 08 Sept 06 ACT: 5980.1 [Signature]				
CONTINUED NEXT LOG.											
I CERTIFY THAT I HAVE CHECKED THE PREVIOUS FIVE (5) AIRCRAFT FLIGHT LOGS AND HAVE COMPLETED AN ACCEPTANCE CHECK OF THE AIRCRAFT											
Signature: _____						CERT. # _____		DATE: 08 September 2006			

Figure A-2. The aircraft logbook entry for the tail boom installation.