



Memorandum for Record

Fabian Salazar
Air Safety Investigator
National Transportation Safety Board
Investigator in Charge

NTSB Accident Number: WPR20LA007
Aircraft Registration & Make/Model: N131HA / Hiller UH-12
Accident Location: Susanville, CA.
Accident Date: October 13, 2019

The following are pages from the maintenance documents for the accident helicopter.

YEAR 20 DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)	YEAR 20 DATE	RECORDING TACH TIME
				5/13/2019 Tach: 2609.3 ACTT: 12010.2 Replaced Hobbs Digital Meter with a Tach time of 2609.3 with a new one @ 0.0 time. Alfredo Santoyo, [REDACTED]		
				6/4/2019, Tach: 2633.1 ACTT: 12034 Performed 50 hr. service per Hiller/Soloy UH12E3/J inspection Guide, #1 & #2 checks. Washed and greased aircraft. Complied with all AD's as applicable, see AD compliance log. Performed Compressor wash. Post inspection Ground run and leak checks OK. Aircraft has been inspected I/A/W an 50 hr. inspection and was determined to be in an Airworthy condition. Aircraft OK for return to service. Work accomplished by Andy Fuqua and Zach Searcy. Andy Fuqua [REDACTED] Zach Searcy [REDACTED]		
				9/26/2019 N131HA Tach 68.2 ACTT: 12078.4 Performed 100 hr. inspection per Hiller/Soloy Inspection Guide #1, #2 and #3 checks. Serviced aircraft per Hiller service instructions. Checked Oil screens and chip plugs. All good. Drained and serviced T/R Gear Box with Triton FE synthetic gear oil. C/W all 50 & 100 hr. recurring AD's as applicable, no defects noted at this time. Inspected Cascade Flying Service Barrier Filter kit per ICA of Cascade Flying Service Doc. No PW-CF5456-13 Rev. IR. Performed ground run and leak checks all Ok. This aircraft has been inspected I/A/W a 50 & 100 hr inspection and was determined to be in an airworthy condition. Aircraft OK returned to service. Work accomplished by Andy Fuqua and Alfredo Santoyo. Andy Fuqua [REDACTED] Alfredo Santoyo [REDACTED]		

Figure 1. Engine maintenance entry showing the last 100-hour inspection.

1. Approving National Aviation Authority/Country FAA/UNITED STATES				2. Form Filing Number 14-13924	
3. Organization Name and Address Aircraft FAA CTR A-100000 10870 Dwyer Drive Dallas, TX 75220				4. Work Order/Contract/Invoice Number A50141945	
5. PART NUMBER 23038241		6. QUANTITY 1		7. SERIAL/BATCH NO. CAT-02454F	
8. ITEM 001		9. DESCRIPTION Turbine Assy, C20B		10. STATUS Repaired	
11. REMARKS Repaired Turbine due to low power and running hot (A/W) per the Boyle GTH Manual (OWS, 4th Edition, Rev #8 dated August 15, 2013). Installed #1 Wheel P/N 23073853 S/N X505224 TT: 783.0 TC: 1003 and #2 Wheel P/N 22073854 S/N X503168 TT: 783.0 TC: 1003. GP Rotor Curve. Coupling measurements: 3.416". Installed Turbol P/N 23068285 S/N NM85594 Free Airgap: 6.887" Stretched: 5.893". Installed #1 Nozzle. Complied with CEB A-1075 and CEB-1414. TT: 9612.7 TC: 10841 TSO: 2451.2 CQO: 2932 TSR: 0.0 Action Approved by the Director certifies that the work specified in block 11112 was carried out in accordance with EASA 145 and in respect to that work the aircraft component is considered ready for release to service under EASA Part 145 Approval Certificate No. EASA 145 5481 12a. ☐ Confirms the items identified above were manufactured in conformity to: ☐ Approved design data and are in a condition for safe operation. ☐ Non-approved design data specified in Block 13. 12b. ☒ Confirms that unless otherwise specified in block 13, the work identified in Block 11 and described in block 12 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service. 13a. Authorized Signature 13b. Approval/Authorization No. 13c. Name (type or print) 13d. Date (m/d/y) 14a. Approval/Certificate No. A00R626J 14b. Date (m/d/y) September 9, 2014 14c. Name (type or print) Jerry Hiatt User/Installer Responsibilities It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different from the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of this country specified in Block 1. Statement in block 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown. FAA Form 8130-3 (02-14) NSN 7500-01-012-9005					

Figure 2. FAA Form 8130-3 showing the turbine assembly was repaired due to low power and running hot.

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SERVICE RECORD TURBINE ASSEMBLY

FORM 2782-D

Turbine Serial Number CAT 32454 PF Engine Model 250-C205

INSTALLED					REMOVED			
Date	Owner	A/C or Eng. S/N	Turbine Time		Date	Turbine Time		Reason
			Since OH	Total		Since OH	Total	
04/80	KAH	820987	0.0	3653.0	12/5/80	000	3653.0	C-20 TURB
1-28-81	Henderson	822628	20.0	3673.0	11-2-87	1752.0	5405.0	1750 HSI
11-6-87	HENDERSON	822638	1752.0	5405.0	4-18-94	3508.5	7161.5	Time OH INSP.
6-14-95	HAC	822628	0.0	7161.5	9-25-03	1698.2	8849.7	1250 HSE
10-6-03	Summit	822628	1688.2	8849.7	10-26-11	2243.9	9405.4	AD 2005-10-13
04-02-2012	Mezzuca Ent.	822628	2243.9	9405.4	7-9-14	2451.2	9412.7	Revs. Not
10-21-14	ALDOE M&E	5874V	2451.2	9612.7	4-25-16	2651.1	9812.6	48,876 HPI MFO
15 July 2016	Western Helicopters	821065	2651.1	9812.6				

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October 2017
November 2017

Figure 3. Turbine assembly service record.