

DYNAMIC AVIATION - HELICOPTERS

James Richards, Chief Pilot & Aircraft Operator
Vernal, Utah 84078
BLANK FORM, AIRCRAFT INSPECTION, Version: 01 March 2019

Cell Phone: [REDACTED]
Office Phone: [REDACTED]

AIRCRAFT RECORDS, Hiller UH-12E Turbine Helicopter, N7173S "INSPECTION" and "MAINTENANCE" RECORDS as per FAR 43.9 and FAR 43.11

HELICOPTER AIRFRAME RECORD X OR TURBINE ENGINE RECORD _____

HELICOPTER DESCRIPTION: HILLER UH-12E "SOLOY CONVERSION" with the Allison Rolls-Royce 250 Series, C20B TURBINE ENGINE.
Federal Aviation Administration REGISTRATION NUMBER: N7173S, SERIAL NUMBER: 2351, Equipped with Hiller MAIN ROTOR BLADES, P/N 53200-03.

HOBBS METER (HOURS) <u>507.6</u>	HOBBS	AIRCRAFT "TOTAL TIME" <u>13,735.6</u>	HOURS
LAST 100 HR. (HOURS) <u>TODAY 507.6</u>	HOBBS	LAST 100 HR. A/C T.T. <u>Today 13,735.6</u>	HOURS
SINCE LAST 100 HOUR <u>today 0</u>	HOURS	HOURS REMAINING, 100 HR. <u>100.0</u>	HOURS
NEXT 100 HOUR DUE <u>607.6</u>	HOBBS	NEXT 100 HR. DUE @ A/C T.T. <u>13,835.6</u>	HOBBS
CYCLE COUNTER READING: <u>784</u>	START CYCLES.	NOTE #1: INSTALLED an OVERHAULED ALLISON ROLLS-ROYCE 250 C-20B Turbine Engine on 09 December 2005. Serial Number: CAE-823398, at Aircraft Total Time of 11,790.4 Hours. Engine START CYCLE COUNTER set to: ZERO CYCLES. New Hobbs Meter installed: 0.0 HRS.	
CYCLE COUNTER AT O/H: <u>0</u>	START CYCLES. (09 Dec. 2005)		
TOTAL CYCLES SINCE O/H: <u>784</u>	START CYCLES.		

NOTE #2, Effective Date: 23 January 2012, To determine Aircraft Total Time, ADD: 11,790.4 + 1,437.6 + Current Hobbs Hours = Aircraft Total Time.
New HOBBS Meter Installed 23 January 2012, at A/C Total Time of 13,228.0 Hours.

DATE of last Compliance with FAR 91.207 (d) (1, 2, 3, & 4) (ELT Inspection): 12 MARCH 2019
DATE Emergency Locating Transmitter (ELT) BATTERY REPLACEMENT due: DECEMBER 2021
DATE the Helicopter was LAST WEIGHED. See the Log Book Entry that Date: 27 JANUARY 2018
DATE of the last "BIENNIAL" AVIONICS INSPECTION: 12 MARCH 2019

All work accomplished by James Richards, unless otherwise noted. DESCRIPTION of INSPECTIONS or MAINTENANCE PERFORMED:

Completed the 100 HOUR/ANNUAL INSPECTION of this Helicopter
As per the Hiller UH-12-E Turbine Helicopter "INSTRUCTIONS FOR
CONTINUED AIRWORTHINESS." Cleaned & Lubricated the Helicopter.
No New AD's. See Recurring AD List. Test Flew. all Systems
Functioning Properly. END

If accomplished, Complied with Main Rotor Transmission Oil Filter Inspection, due each 25 Hours, AD 81-17-03.

If accomplished, Complied with AD-73-20-03, DYE CHECK of the Main Rotor Hub, which is due each 50 Hours.
NOTE: All other RECURRING Ads are due every 100 Hours or more. See the latest 100 Hour AD List.

I CERTIFY THAT THIS Airframe HAS BEEN REPAIRED and/or INSPECTED IN ACCORDANCE WITH A 100 HR/ANNUAL
HOUR INSPECTION and/or REPAIR, AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION.

(25, 50, 75 or 100 Hour INSPECTION or MAINTENANCE)

James Richards, [REDACTED]

DATE

12 MARCH 2019

TEST FLEW this Helicopter and Returned it TO Service.

Six take off & Landings

James Richards, TEST PILOT, [REDACTED]

DATE

12 MARCH 2019

NOTE: Most of my Customer Billing is based on Engine Running Time, depending on how I negotiate the Terms of my Helicopter Service Contracts. The Aircraft Records, Component Records and Inspection Records are based on Helicopter FLIGHT Time, (Lift Off until Touch Down), as per the Federal Aviation Regulations and the Airframe and Engine Manufacturer's Manuals. James Richards A&P [REDACTED] IA

26/02/2020 14:13

DYNAMIC AVIATION - HELICOPTERS

James Richards, Chief Pilot & Aircraft Operator

Vernal, Utah 84078

BLANK FORM, AIRCRAFT INSPECTION, Version: 01 March 2019

Cell Phone: [REDACTED]

Office Phone: [REDACTED]

AIRCRAFT RECORDS, Hiller UH-12E Turbine Helicopter, N7173S "INSPECTION" and "MAINTENANCE" RECORDS as per FAR 43.9 and FAR 43.11

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Federal Aviation Administration REGISTRATION NUMBER: N7173S, SERIAL NUMBER: 2351, Equipped with Hiller MAIN ROTOR BLADES, P/N 53200-03.

HOBBS METER (HOURS) 507.6 HOBBS
LAST 100 HR. (HOURS) TODAY 507.6 HOBBS
SINCE LAST 100 HOUR today 0 HOURS
NEXT 100 HOUR DUE 607.6 HOBBS
CYCLE COUNTER READING: 784 START CYCLES.
CYCLE COUNTER AT O/H: 0 START CYCLES. (09 Dec. 2005)
TOTAL CYCLES SINCE O/H: 784 START CYCLES.

AIRCRAFT "TOTAL TIME" 13,735.6 HOURS
LAST 100 HR. A/C T.T. today 13,735.6 HOURS
HOURS REMAINING, 100 HR. 100.0 HOURS
NEXT 100 HR. DUE @ A/C T.T. 13,835.6 HOBBS

NOTE #1: INSTALLED an OVERHAULED ALLISON ROLLS-ROYCE 250 C-20B Turbine Engine on 09 December 2005. Serial Number: CAE-823398, at Aircraft Total Time of 11,790.4 Hours. Engine START CYCLE COUNTER set to: ZERO CYCLES. New Hobbs Meter installed: 0.0 HRS.

NOTE #2, Effective Date: 23 January 2012, To determine Aircraft Total Time, ADD: 11,790.4 + 1,437.6 + Current Hobbs Hours = Aircraft Total Time.
New HOBBS Meter installed 23 January 2012, at A/C Total Time of 13,228.0 Hours.

DATE of last Compliance with FAR 91.207 (d) (1, 2, 3, & 4) (ELT Inspection): 12 MARCH 2019
DATE Emergency Locating Transmitter (ELT) BATTERY REPLACEMENT due: DECEMBER 2021
DATE the Helicopter was LAST WEIGHED. See the Log Book Entry that Date: 27 JANUARY 2018
DATE of the last "BIENNIAL" AVIONICS INSPECTION: 12 MARCH 2019

All work accomplished by James Richards, unless otherwise noted. DESCRIPTION of INSPECTIONS or MAINTENANCE PERFORMED:

Completed the 100 HOUR/ANNUAL INSPECTION of this Helicopter As per the Hiller UH-12-E Turbine Helicopter "INSTRUCTIONS FOR CONTINUED AIRWORTHINESS." Cleaned + Lubricated the Helicopter. No New AD's. See Recurring AD List. Test Flew. all Systems Functioning Properly. END

If accomplished, Complied with Main Rotor Transmission Oil Filter Inspection, due each 25 Hours, AD 81-17-03. [REDACTED]

If accomplished, Complied with AD-73-20-03, DYE CHECK of the Main Rotor Hub, which is due each 50 Hours.
NOTE: All other RECURRING Ads are due every 100 Hours or more. See the latest 100 Hour AD List. [REDACTED]

I CERTIFY THAT THIS Airframe HAS BEEN REPAIRED and/or INSPECTED IN ACCORDANCE WITH A 100 HR/ANNUAL HOUR INSPECTION and/or REPAIR, AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION.

(25, 50, 75 or 100 Hour INSPECTION or MAINTENANCE)

James Richards, A&P [REDACTED]

DATE

TEST FLEW this Helicopter and Returned it TO Service.

Six take off + Landings

James Richards, TEST PILOT, Certificate [REDACTED]

DATE

NOTE: Most of my Customer Billing is based on Engine Running Time, depending on how I negotiate the Terms of my Helicopter Service Contracts. The Aircraft Records, Component Records and Inspection Records are based on Helicopter FLIGHT Time (Lift Off until Touch Down), as per the Federal Aviation Regulations and the Airframe and Engine Manufacturer's Manuals. James Richards A&P [REDACTED]

26/02/2020 14:13

DYNAMIC AVIATION - HELICOPTERS

James Richards, Chief Pilot &
Director of Operations

Vernal, Utah 84078

Phone Number: [REDACTED]

Form Revision Date: 20 May 2008

Date: 12 MARCH 2019

AIRCRAFT RECORDS

AIRWORTHINESS DIRECTIVE (AD) COMPLIANCE RECORD, RECURRING Ads for
HELICOPTER N7173S, S/N 2351

HELICOPTER HILLER UH-12E, "SOLOY CONVERSION" with ALLISON C20B TURBINE ENGINE
DESCRIPTION: FAA REGISTRATION NUMBER: N7173S, SERIAL NUMBER: 2351,
Equipped with HILLER Main Rotor Blades Part Number: 53-200-03.

HOBBS METER (HOBBS): 507.6 HOURS. AIRCRAFT "TOTAL TIME": 13,735.6 HOURS.

AD NUMBER	AD SUBJECT	DATE OF COMPLIANCE	METHOD OF COMPLIANCE	NEXT COMPLIANCE DUE AT A/C TT:	MECHANIC'S SIGNATURE & NUMBER
73-20-03	Main Rotor HUB, <u>12 March 2019</u> Dye Check for CRACKS. Due each 50 Hours.		DYE CHECKED Main Rotor HUB. <u>NO CRACKS.</u>	NEXT DUE AT A/C T.T. <u>13,785.6</u> HRS.	[REDACTED] James Richards A&P [REDACTED]
77-07-05	CONTROL ROTOR SPAR TUBE INSPECTION		SUPERCEDED by AD 97-10-16, see Compliance below.		
79-18-04	M/R FORK INSP. S/N 4,000 & LOWER.		SUPERCEDED by AD 86-17-02, Dye Check of M/R Fork T.T. Pin Holes.		
81-09-08	M/R Blade <u>next installation</u> P/N 53200-03, Water Seal Tip Cap. Repeat at each Tip Cap Reinstallation.		SILICONE Sealed TIP CAP(S)	<u>Next Installation</u> of either Tip Cap	[REDACTED] James Richards A&P [REDACTED]
81-17-03	Inspect Main Rotor <u>12 March 2019</u> Transmission Filter for Metal Particles TURBINE CONVERSION, Due each 25 Hours.		Removed Filter, NEXT DUE AT A/C T.T. Inspected. <u>NO</u> METAL PARTICLES	<u>13,760.6</u> HRS.	[REDACTED] James Richards A&P [REDACTED]
81-18-02	T/R Blades inspected <u>DAILY PRE-FLIGHT</u> for proper venting		Pilot verifies during each day's Pre-Flight Inspection that the Tail Rotor Vent Holes are Free of any Obstructions.		
84-19-08	Engine Mount dye ck. <u>25 JAN. 2012</u> P/N 63181-5, (Turbine powered Soloy Conversion only) Repeat each 600 Hours.		DYE CHECKED GUSSET WELDS <u>NO CRACKS</u>	NEXT DUE AT A/C T.T. <u>13,830.1</u> HRS.	[REDACTED] James Richards A&P [REDACTED]
86-17-02	M/R Fork dye check. <u>12 March 2012</u> Daily Pre-Flight Visual Inspection by the Pilot for Cracks and Dye Check M/R Fork at T.T. Pin Holes, DUE each 100 Hours.		T.T. Pin Holes Dye Checked. <u>NO CRACKS.</u>	NEXT DUE AT A/C T.T. <u>13,835.6</u> HRS.	[REDACTED] James Richards A&P [REDACTED]
95-12-02	Dye Check M/R TT Pin HEAD for Cracks.		SUPERCEDED by AD 97-20-15, see Compliance below.		
97-10-16	Inspect Control Rotor <u>12 March 2012</u> Spar & Cuff for Cracks Due each 100 Hr.		No Corrosion Elongation, Fretting etc. <u>NO CRACKS.</u>	NEXT DUE AT A/C T.T. <u>13,835.6</u> HRS.	[REDACTED] James Richards A&P [REDACTED]
97-20-15	Dye Check TT Pins & <u>12 March 2012</u> Check DRAG STRUT ALIGNMENT Due each 100 Hours		Dye Checked TT Pins. <u>NO CRACKS</u> ALIGNMENT GOOD	NEXT DUE AT A/C T.T. <u>13,835.6</u> HRS.	[REDACTED] James Richards A&P [REDACTED]

RESERVED
RESERVED
RESERVED

26/02/2020 14:14

MAIN ROTOR TRANSMISSION, P/N 23700-9

SN #288

RECORD OF INSPECTIONS AND OVERHAULS

PAGE 3

DATE	INSPECTION OR OVERHAUL ACCOMPLISHED	ACTIVITY	MAJOR PARTS REPLACED	PRESERVATION	REMARKS	SIGNATURE
		Overhauled in accordance with Hillon/Soloy overhaul manual				
		Installed new Bearings and seals and rings. Major Fluct All Torrous parts				
		24glo Inspected All non-Torrous parts. Discontinually Inspected.				

AIRCRAFT, AIRFRAME, AIRCRAFT ENGINE OR APPLIANCE IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH CURRENT REGULATIONS OF THE FEDERAL AVIATION AGENCY AND IS APPROVED FOR RETURN TO SERVICE, PERTINENT DETAILS OF THE REPAIR ARE ON FILE AT THIS FACILITY

UNDER WORK ORDER NO. 1404

DATE 6-19-07

SIGNED

(AUTHORIZED INDIVIDUAL)

F.A.A. APPROVED

REPAIR STATION NO. JURS01L

JOHNSON HELICOPTER SERVICE, INC.

FORTVILLE, CA 93257

26/02/2020 14:40

"COMPONENT RECORD CARD" for ENGINE COMPONENTS

DYNAMIC AVIATION - HELICOPTERS, James Richards, A&P [REDACTED] IA

COMPONENT NAME: #1 Turbine Wheel PART NUMBER: 6886407 SERIAL NUMBER: X103353

COMPONENT FINITE LIFE: 1,775 HOURS, if applicable. TBO (TIME BETWEEN OVERHAULS): _____ HOURS, if applicable.

ACRONYMS: TT (Total Time) TSO (Time Since Overhaul) TBO (Time Between Overhauls OR Time in Hours REMAINING before Overhaul is due. O/H (Overhaul) A/C (Aircraft) N/A (Not applicable). If a Component does NOT have a Finite Life or O/H Life, enter N/A as applicable.

INSTRUCTIONS: Attach YELLOW TAGS, FAA Form 8130-3 AIRWORTHINESS APPROVAL TAGS, OVERHAUL RECORDS, and other DOCUMENTATION to this "COMPONENT CARD." Attach to the Reverse Side if necessary. Attach Additional Cards as required.

NOTES and RECORDS: This #1 Turbine Wheel is Installed in Turbine S/N CAT-35839. The complete Turbine Assembly was installed on Rolls-Royce

C20B Turbine Engine S/N CAE-823398, on 25 January 2012. Component Life is: 1,775 Hours. Component Cycle Life is: 3,000 Cycles

DATE COMPONENT INSTALLED	AIRCRAFT "N" NUMBER and AIRCRAFT SERIAL NUMBER	A/C HOBBS Meter Reading and A/C TT at this COMPONENT Installation	Component TOTAL TIME of FINITE LIFE and/or TSO in Hours at this Installation (as applicable)	HOURS REMAINING of FINITE LIFE and RETIREMENT DUE at A/C TT (as applicable)	REMOVAL DUE for OVERHAUL at HOBBS Hours of, and A/C TT of, (as applicable)	DATE COMPONENT REMOVED DATE MONTH YEAR	A/C HOBBS meter reading and Aircraft TOTAL TIME at this COMPONENT REMOVAL	Component HOURS in SERVICE since the last Installation, at this REMOVAL	Component TOTAL TIME and FINITE LIFE REMAINING at this Removal (as applicable)	Component TIME SINCE OVERHAUL (TSO) at this Component Removal (as applicable)	Component TBO HOURS REMAINING before O/H is DUE at this REMOVAL (as applicable)
DATE MONTH YEAR							Hobbs A/C Total Time	Hrs. In Service Total Time	Hrs. Total Time REMAINING	Hrs. Component TSO at this Removal (as applicable)	Hrs. Component TBO Hours REMAINING at this Removal.
25 January 2012 Hr. Life Record See N7173S Log Book Entry	N 7173S S/N 2351	2.1 Hobbs 13,230.1 Hrs. A/C Total Time	34.0 Total Time Hrs. "0" TSO Hrs. Since O/H	1,741.0 Hrs. Remaining RETIREMENT 14,971.1 A/C Total Time	1,743.1 RETIREMENT 14,971.1 A/C Total Time						
25 January 2012 CYCLE LIFE RECORD	557 A/C Cycles at this Installation	2.1 Hobbs 13,230.1 Hrs. A/C Total Time	3,000 CYCLE LIFE 85 Cycles Total CYCLES	2,915 Cycles Remain RETIREMENT 3,472 Cycles A/C Cycles	N/A For Overhaul N/A A/C Total Time						
	N S/N	Hobbs Hrs. A/C Total Time	Total Time Hrs. Hrs. Since O/H	Hrs. Remaining RETIREMENT A/C Total Time	Hobbs For Overhaul A/C Total Time						

01 February 2020
A/C TT
Retire @ 14,971.1
01 Feb 13,795.5
1,175.6

HRC Remaining
26/02/2020 14:51
Turbine wheel

NOTES:
Component Record Card, ENGINE



ASSEMBLY RECORD

TURBINE ASSEMBLY

Part V
Page No.

Turbine Serial Number CAT- 35839

Engine Model 250-~~B170~~ C20B

Turbine Serial Number		INSTALLED			REMOVED		
Nomenclature	Part Number Serial Number	Date	Turbine	Component	Date	Turbine	Co
			TT CYCLES	TT CYCLES		TT CYCLES	C
1ST STG WHEEL	6886407	08-01-02	3481.9	34.0			
	X103353		4931	85			
2ND STG WHEEL	6898782	08-01-02	3481.9	34.0			
	HX87391		4931	85			
3RD STG WHEEL	23001967	08-01-02	3481.9	323.8			
	HX81277		4931	385			
4TH STG WHEEL	6853279	08-01-02	3481.9	323.8			
	HX70482		4931	385			
TIE BOLT	23068265	08-01-02	3481.9	NEW			
	NM83619		4931	0			
#1 Nozzle Shield	6890040	22 June 2011	3734.6	TSO: 0.0			
	AV01437		5241	CSO: 0			

26/02/2020 14:52

26/02/2020 14:52



Allison Gas Turbine
250-C20 Series Operation and Maintenance

TABLE II-9

250-C20, -C20B, -C20F, -C20J Component Parts Life Limits					
Nomenclature	Part No.	Description	Maximum		
			Operating Hours	Maximum Cycles	
Compressor Rotor Assembly					
Impeller	6871337	Original	2500	7500	
Impeller	6876873	Hub relocated rearward	3550	9150	
Gas Producer Turbine Rotor Assmebly					
First-stage Wheel	6853306	Original	1550	3000	
First-stage Wheel	6886407	Thick rim	1775	3000	
Second-stage Wheel	6857912	Original	1550	3000	
Second-stage Wheel	6871872	250-C18 to -C20 Conversion (250-CEB-115)	1550	3000	
Second-stage Wheel	6877092	Changed contour	1775	3000	
	6898782	Pilot diameter	1775	3000	
Power Turbine Rotor Assembly					
Third-stage Wheel	23001967	Solid Shroud. Less 7-11 Seals	4550	6000	
	6853282	Solid Shroud. Has 7-11 Seals	4550	6000	
	6887113	Full slotted shroud. Has 7-11 seals	(1)	6000	
	6891588	Full slotted shroud. Has 7-11 seals	(1)	6000	
	6896863	Full slotted shroud. Has 7-11 seals	(1)	6000	
	6898551	Center slot. Has 7-11 seals	(1)	6000	
	6898567	Center slot. Has 7-11 seals	(1)	6000	
	6898733	Machined web		6000	
	6898743	Center slot. Less 7-11 seals	(1)	6000	
	6898753	Center slot. Less 7-11 seals	(1)	6000	
	6898763	Solid casting		6000	
		Center slot. Machined web	(1)	6000	
		Less 7-11 seals		6000	
	6898823	Solid Casting		6000	
		Full slot. Crimped shroud.	(1)	6000	
		Less 7-11 seals		6000	
	6898967	Solid shroud. Less 7-11 seals	4550	6000	

26/02/2020 14:53

Jun 1/89

"COMPONENT RECORD CARD" for ENGINE COMPONENTS

DYNAMIC AVIATION - HELICOPTERS, James Richards, A&P [REDACTED] IA

COMPONENT NAME: #2 Turbine Wheel PART NUMBER: 6898782 SERIAL NUMBER: HX87391

COMPONENT FINITE LIFE: 1,775 HOURS, if applicable. TBO (TIME BETWEEN OVERHAULS): _____ HOURS, if applicable.

ACRONYMS: TT (Total Time) TSO (Time Since Overhaul) TBO (Time Between Overhauls OR Time in Hours REMAINING before Overhaul is due.
O/H (Overhaul) A/C (Aircraft) N/A (Not applicable. If a Component does NOT have a Finite Life or O/H Life, enter N/A as applicable.

INSTRUCTIONS: Attach YELLOW TAGS, FAA Form 8130-3 AIRWORTHINESS APPROVAL TAGS, OVERHAUL RECORDS, and other DOCUMENTATION to this "COMPONENT CARD." Attach to the Reverse Side if necessary. Attach Additional Cards as required.

NOTES and RECORDS: This #2 Turbine Wheel is Installed in Turbine S/N CAT-35839. The complete Turbine Assembly was installed on Rolls-Royce

C20B Turbine Engine S/N CAE-823398, on 25 January 2012. Component Life is: 1,775 Hours. Component Cycle Life is: 3,000 Cycles

DATE COMPONENT INSTALLED	AIRCRAFT "N" NUMBER and AIRCRAFT SERIAL NUMBER	A/C HOBBS Meter Reading and A/C TT at this COMPONENT Installation	Component TOTAL TIME of FINITE LIFE and/or TSO in Hours at this Installation (as applicable)	HOURS REMAINING of FINITE LIFE and RETIREMENT DUE at A/C TT (as applicable)	REMOVAL DUE for OVERHAUL at HOBBS Hours of, and A/C TT of, (as applicable)	DATE COMPONENT REMOVED DATE MONTH YEAR	A/C HOBBS meter reading and Aircraft TOTAL TIME at this COMPONENT REMOVAL	Component HOURS in SERVICE since the last Installation, at this REMOVAL	Component TOTAL TIME and FINITE LIFE REMAINING at this Removal (as applicable)	Component TIME SINCE OVERHAUL (TSO) at this Component Removal (as applicable)	Component TBO HOURS REMAINING before O/H is DUE at this REMOVAL (as applicable)
25 January 2012 <i>Hr. Life Record See N7173S Log Book Entry</i>	<u>N 7173S</u> <u>S/N 2351</u>	<u>2.1 Hobbs</u> <u>13,230.1 Hrs.</u> A/C Total Time	<u>34.0</u> Total Time Hrs. "0" TSO Hrs. Since O/H	<u>1,741.0</u> Hrs. Remaining RETIREMENT <u>14,971.1</u> A/C Total Time	<u>1,743.1</u> RETIREMENT <u>14,971.1</u> A/C Total Time		<u>Hobbs</u> A/C Total Time	<u>Hrs.</u> In Service Total Time	<u>Hrs.</u> Total Time	<u>Hrs.</u> Component TSO at this	<u>Hrs.</u> Component TBO Hours
25 January 2012 <i>CYCLE LIFE RECORD</i>	<u>557</u> A/C Cycles at this Installation	<u>2.1 Hobbs</u> <u>13,230.1 Hrs.</u> A/C Total Time	<u>3,000</u> CYCLE LIFE <u>85 Cycles</u> Total CYCLES	<u>2,915</u> Cycles Remain RETIREMENT <u>3,472 Cycles</u> A/C Cycles	<u>N/A</u> For Overhaul <u>N/A</u> A/C Total Time		<u>Hobbs</u> A/C Total Time	<u>Hrs.</u> In Serv Total Ti	<u>Hrs.</u> Total Ti		
	<u>N</u> <u>S/N</u>	<u>Hobbs</u> <u>Hrs.</u> A/C Total Time	<u>Total Time Hrs.</u> <u>Hrs. Since O/H</u>	<u>Hrs. Remaining RETIREMENT</u> <u>A/C Total Time</u>	<u>Hobbs For Overhaul</u> <u>A/C Total Time</u>		<u>Hobbs</u> A/C Total Time	<u>Hrs.</u> In Serv Total Ti	<u>Hrs.</u> Total Ti		

NOTES:

Component Record Card, ENGINE

01 February 2020

A/C TT

Retire @ 14,971.1

01 Feb 2020 13,795.5

1,175.6

Hours Remaining

Turbine Wheel #2

26/02/2020 14:57

"COMPONENT RECORD CARD" for ENGINE COMPONENTS

DYNAMIC AVIATION - HELICOPTERS, James Richards, A&P [REDACTED] IA

COMPONENT NAME: #3 Turbine Wheel

PART NUMBER: 23001967

SERIAL NUMBER: HX81277

COMPONENT FINITE LIFE: 4.550 HOURS, if applicable. TBO (TIME BETWEEN OVERHAULS): _____ HOURS, if applicable.

ACRONYMS: TT (Total Time) TSO (Time Since Overhaul) TBO (Time Between Overhauls OR Time in Hours REMAINING before Overhaul is due. O/H (Overhaul) A/C (Aircraft) N/A (Not applicable. If a Component does NOT have a Finite Life or O/H Life, enter N/A as applicable.

INSTRUCTIONS: Attach YELLOW TAGS, FAA Form 8130-3 AIRWORTHINESS APPROVAL TAGS, OVERHAUL RECORDS, and other DOCUMENTATION to this "COMPONENT CARD." Attach to the Reverse Side if necessary. Attach Additional Cards as required.

NOTES and RECORDS: This #3 Turbine Wheel is Installed in Turbine S/N CAT-35839. The complete Turbine Assembly was installed on Rolls-Royce

C20B Turbine Engine S/N CAE-823398, on 25 January 2012. Component Life is: 4.550 Hours. Component Cycle Life is: 6,000 Cycles

DATE COMPONENT INSTALLED DATE MONTH YEAR	AIRCRAFT "N" NUMBER and AIRCRAFT SERIAL NUMBER	A/C HOBBS Meter Reading and A/C TT at this COMPONENT Installation	Component TOTAL TIME of FINITE LIFE and/or TSO in Hours at this Installation (as applicable)	HOURS REMAINING of FINITE LIFE and RETIREMENT DUE at A/C TT (as applicable)	REMOVAL DUE for OVERHAUL at HOBBS Hours of, and A/C TT of, (as applicable)	DATE COMPONENT REMOVED DATE MONTH YEAR	A/C HOBBS meter reading and Aircraft TOTAL TIME at this COMPONENT REMOVAL	Component HOURS in SERVICE since the last Installation, at this REMOVAL	Component TOTAL TIME and FINITE LIFE REMAINING at this Removal (as applicable)	Component TIME SINCE OVERHAUL (TSO) at this Component Removal (as applicable)	Component TBO HOURS REMAINING before O/H is DUE at this REMOVAL (as applicable)
25 January 2012 Hr. Life Record See N7173S Log Book Entry	N 7173S S/N 2351	2.1 Hobbs 13,230.1 Hrs. A/C Total Time	323.8 Total Time Hrs. "0" TSO Hrs. Since O/H	4,226.2 Hrs. Remaining RETIREMENT 17,456.3 A/C Total Time	4,228.3 RETIREMENT 17,456.3 A/C Total Time			Hobbs In Service	Hrs. Total Time Hrs.	Hrs. Component TSO at this Removal	Hrs. Component TBO Hours REMAINING at this Removal.
25 January 2012 CYCLE LIFE RECORD	557 A/C Cycles at this Installation	2.1 Hobbs 13,230.1 Hrs. A/C Total Time	6,000 CYCLE LIFE 385 Cycles Total CYCLES	5,615 Cycles Remain RETIREMENT 6,172 Cycles A/C Cycles	N/A For Overhaul N/A A/C Total Time						Hrs. Component TBO Hours REMAINING at this Removal.
	N S/N	Hobbs Hrs. A/C Total Time	Total Time Hrs. Hrs. Since O/H	Hrs. Remaining RETIREMENT A/C Total Time	Hobbs For Overhaul A/C Total Time						Hrs. Component TBO Hours REMAINING at this Removal.

NOTES:

Component Record Card, ENGINE

01 February 2020
A/c TT

Retire @ 17,456.3
01 Feb 2020 13,795.5

3,660.8
Hours Remaining
#3 Turbine Wheel

26/02/2020 14:57

"COMPONENT RECORD CARD" for ENGINE COMPONENTS

DYNAMIC AVIATION - HELICOPTERS, James Richards, A&P [REDACTED] IA

COMPONENT NAME: #4 Turbine Wheel PART NUMBER: 6853279 SERIAL NUMBER: HX70482

COMPONENT FINITE LIFE: 4.550 HOURS, if applicable. TBO (TIME BETWEEN OVERHAULS): _____ HOURS, if applicable.

ACRONYMS: TT (Total Time) TSO (Time Since Overhaul) TBO (Time Between Overhauls OR Time in Hours REMAINING before Overhaul is due. O/H (Overhaul) A/C (Aircraft) N/A (Not applicable. If a Component does NOT have a Finite Life or O/H Life, enter N/A as applicable.

INSTRUCTIONS: Attach YELLOW TAGS, FAA Form 8130-3 AIRWORTHINESS APPROVAL TAGS, OVERHAUL RECORDS, and other DOCUMENTATION to this "COMPONENT CARD." Attach to the Reverse Side if necessary. Attach Additional Cards as required.

NOTES and RECORDS: This #4 Turbine Wheel is Installed in Turbine S/N CAT-35839. The complete Turbine Assembly was installed on Rolls-Royce

C20B Turbine Engine S/N CAE-823398, on 25 January 2012. Component Life is: 4.550 Hours. Component Cycle Life is: 6,000 Cycles

DATE COMPONENT INSTALLED DATE MONTH YEAR	AIRCRAFT "N" NUMBER and AIRCRAFT SERIAL NUMBER	A/C HOBBS Meter Reading and A/C TT at this COMPONENT Installation	Component TOTAL TIME of FINITE LIFE and/or TSO in Hours at this Installation (as applicable)	HOURS REMAINING of FINITE LIFE and RETIREMENT DUE at A/C TT (as applicable)	REMOVAL DUE for OVERHAUL at HOBBS Hours of, and A/C TT of, (as applicable)	DATE COMPONENT REMOVED DATE MONTH YEAR	A/C HOBBS meter reading and Aircraft TOTAL TIME at this COMPONENT REMOVAL	Component HOURS in SERVICE since the last Installation, at this REMOVAL	Component TOTAL TIME and FINITE LIFE REMAINING at this Removal (as applicable)	Component TIME SINCE OVERHAUL (TSO) at this Component Removal (as applicable)	Component TBO HOURS REMAINING before O/H is DUE at this REMOVAL (as applicable)
25 January 2012 Hr. Life Record See N7173S Log Book Entry	N 7173S S/N 2351	2.1 Hobbs 13,230.1 Hrs. A/C Total Time	323.8 Total Time Hrs. "0" TSO Hrs. Since O/H	4,226.2 Hrs. Remaining RETIREMENT 17,456.3 A/C Total Time	4,226.3 RETIREMENT 17,456.3 A/C Total Time		Hobbs A/C Total Time				
25 January 2012 CYCLE LIFE RECORD	557 A/C Cycles at this Installation	2.1 Hobbs 13,230.1 Hrs. A/C Total Time	6,000 CYCLE LIFE 385 Cycles Total CYCLES	5,615 Cycles Remain RETIREMENT 6,172 Cycles A/C Cycles	N/A For Overhaul N/A A/C Total Time		Hobbs A/C Total Time				
	N S/N	Hobbs Hrs. A/C Total Time	Total Time Hrs. Hrs. Since O/H	Hrs. Remaining RETIREMENT A/C Total Time	Hobbs For Overhaul A/C Total Time		Hobbs A/C Total Time				

01 February 2020
A/C TT.
Retire @ 17,456.3
01 Feb 2020 13,795.5
3,660.8
Hours Remaining
#4 Turbine Wheel

NOTES:

Component Record Card, ENGINE

26/02/2020 14:58

DYNAMIC AVIATION - HELICOPTERS

James Richards, Chief Pilot & Aircraft Operator
Vernal, Utah 84078

Cell Phone: [REDACTED]
Office Phone: [REDACTED]

AIRCRAFT RECORDS, Hiller UH-12E Turbine Helicopter, N7173S WEIGHT and BALANCE, Record and Worksheet

1. See Master Equipment List. This Record is for Cargo Racks **REMOVED**.
2. Wildlife Services Contract requires a **FIRST AID KIT** and a **SURVIVAL KIT**, which are included in this new **EMPTY WEIGHT**.
3. Hobbs Meter: 482.1 Aircraft Total Time: 13,710.1 **WEIGHING DATE: 27 January 2018**
4. New Digital Scales are certified by the Manufacturer.

James Richards, A&P [REDACTED] IA

JACK POINT	WEIGHT	TIMES	ARM	EQUALS	MOMENT
Left Rear Jack Point	616.0 Pounds	X	109.00 Inches	=	67,144.000
Right Rear Jack	613.5 Pounds	X	109.00 Inches	=	66,871.500
Front Center Jack Point	562.0 Pounds	X	44.75 Inches	=	25,149.500
TOTALS (Empty Weight)	1,791.6 Pounds	X	88.84 Inches	=	159,165.000
New Empty Weight: 1,788.0 Pounds, New Empty C.G.: 88.82 Inches, New Empty Moment: 159,165.000					

WEIGHT and BALANCE WORKSHEET DATE: _____

See Hiller UH12E Flight Manual for additional WEIGHT and BALANCE Information, pages 14,15,& 16. See Page 33 for Cargo Rack WEIGHT & BALANCE.
DO NOT exceed 100 Pounds Cargo Weight in either Cargo Rack. BALANCE the Load between the Racks. DO NOT exceed 55 Pounds when using one Rack.

ITEM	WEIGHT	TIMES	ARM	EQUALS	MOMENT
New A/C EMPTY WEIGHT:	1,791.5 Pounds	X	88.84 Inches	=	159,165.000
PILOT, James Richards:	210.0 Pounds	X	53.00 Inches	=	11,130.000
*Center Seat Passenger	_____ Pounds	X	53.00 Inches	=	_____
**Right Seat Passenger	_____ Pounds	X	53.00 Inches	=	_____
Cargo Weight (Racks)	_____ Pounds	X	80.00 Inches	=	Not Installed
46 Gallons Fuel (Full) (Circle Applicable Fuel Load)	322.0 Pounds	X	82.90 Inches	=	26,693.800
23 Gallons Fuel (½ Tank)	161.0 Pounds	X	82.90 Inches	=	13,250.300
TOTALS:	_____ POUNDS	X	C. G. _____ INCHES	=	_____

Forward C.G. is 79.5 INCHES. COMPUTED C.G. is: _____ INCHES Rear C.G. is 84.4 INCHES

Helicopter WEIGHT and BALANCE Certification: James Richards, P.I.C. _____

Notes: 1. NO ENTRY indicates NO LOAD for that Item. 2. Fuel Weight is 7.0 Pounds per Gallon. 3. Select FULL Fuel or ½ Fuel, Cross out N/A Fuel line.
4. Helicopter MAXIMUM GROSS WEIGHT is 2,800.0 Pounds 5. When using both Cargo Racks, BALANCE the Load as much as possible.

OPTIONAL INFORMATION:
Passenger Names, Flight Area, etc.

26/02/2020 15:12