

CYCLE RECORD
TURBINE ASSEMBLY

Part VI

Page No. 2

(Refer to Life Limiting CSL)

Turbine Serial Number CAT- 35088

Engine Model 250-C 20B

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Part V
Page No. _____

Engine Model 250-C 20B

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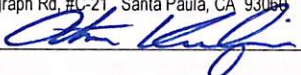
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INSPECTION — MAINTENANCE — OVERHAUL RECORD

TURBINE ASSEMBLY

2784D(11-77)

Turbine Serial Number CAT-35088 Engine Model M250 C20B

Date	Turbine Time		Remarks	Signature	Organization
	Since OH	Total			
15Apr2021	1676.1	8146.8	Completed 1750 HMI / 4th stage wheel replacement with reference to Rolls Royce		
total	cycles =	6428	manual 10W3 4th ed 16th rev dated 01June2020;		
	CSO =	966	and other methods and data acceptable to the administrator. Installed new tiebolt		
			P/N 23068265 S/N NC 93282 free length 6.8827"		
			stretch length 6.8955"		
The aircraft and/or component identified herein was repaired and inspected in accordance with current Federal Aviation Administration Regulations and was found Airworthy for return to service. Pertinent details of the repair are on file at this Agency under W/O <u>9649</u> Date <u>15 APR 2021</u> Helipower Service CRS VB3R913L 15500 Telegraph Rd, #C-21 Santa Paula, CA 93066 Signed <u></u>  HELIPOWER VB3R913L					

27840 (11-77)

Engine Model 250 C20B

Date	Turbine Time		Remarks	Signature	Organization
	Since OH	Total			
NOV 13 2013	0.0	6470.7	Overhauled Per Current Manual 10W3 Under Helipower W/O 8825T Tiebolt P/N 23068265 S/N NM90933 Free Length 6.885 Stretch 6.898		HELIPOWER VB3R913L
The aircraft and/or component identified herein was repaired And inspected in accordance with current Federal Aviation Administration Regulations and was found Airworthy for return To service. Pertinent details of the repair are on file at this Agency under W/O 8825T Date 11-13-13 Helipower Service CRS VB3R913L 15500 Telegraph Rd, #C-21 Santa Paula, CA 93060 Signed <i>Anton Kuly</i> <i>Anton Kuly</i>					
HELIPOWER VB3R913L					

Engine Model 250-C 20B

Signed

graph Rd. #C-21, Santa Paula, CA 93060

HELIPOWER
VB3R913L

Turbine Serial Number CAT- 35088 Engine Model M250 C20B

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FORM 2783D(11-77)

MODIFICATION RECORD

TURBINE ASSEMBLY

 Part III
 Page No. 4
Turbine Serial Number CAT 35088Engine Model 250 C20B

Compliance Date	Bulletin or Directive No.	Title	Signature	Organization
Nov 13, 2013	CEB 1360	Recoating of PT Inner Shaft	<i>John Kelly</i>	HELIPOWER VB3R913L
Nov 13, 2013	CEB A-1370	#1 Nozzle Shield FPI Insp.	<i>John Kelly</i>	HELIPOWER VB3R913L
Nov 13, 2013	CEB A 1375	#2 Nozzle Diaphragm Replace	<i>John Kelly</i>	HELIPOWER VB3R913L
Nov 13, 2013	CEB A-1398	PT Outer Shaft (N/A By S/N)	<i>John Kelly</i>	HELIPOWER VB3R913L
Nov 13, 2013	CEB - 1406	GP Lab Seal, Replace	<i>John Kelly</i>	HELIPOWER VB3R913L
15 April 2015	CEB - 1417	#5 Bearing Retaining Ring, Replace	<i>John Kelly</i>	HELIPOWER VB3R913L
15Apr2021	CEB-1183	GP support oil nozzle pin replace	<i>John Kelly</i>	HELIPOWER VB3R913L
15Apr2021	CEB-1185	PT support break edge hole	<i>John Kelly</i>	HELIPOWER VB3R913L
15Apr2021	CEB A-1370	#1 nozzle shield inspection	<i>John Kelly</i>	HELIPOWER VB3R913L
15Apr2021	CEB A-1375	#2 nozzle diaphragm replacement	<i>John Kelly</i>	HELIPOWER VB3R913L
15Apr2021	CEB A-1407	#3 wheel FPI inspection	<i>John Kelly</i>	HELIPOWER VB3R913L
15Apr2021	CEB-1414	N2 shafting replacement	<i>John Kelly</i>	HELIPOWER VB3R913L
15Apr2021	CEB-1418	#3 wheel shroud inspection	<i>John Kelly</i>	HELIPOWER VB3R913L

TRANSFER RECORD

[illegible]

Turbine Serial Number CAT- 35088

Engine Model 250-C20B

[illegible]

[illegible]

CYCLE RECORD TURBINE ASSEMBLY

(Refer to Life Limiting CSL)

Turbine Serial Number CAT- 35088Engine Model 250-C20B

Installed				Do Not Exceed Cycle Counter Reading	Removed		Cycles This Installation
Date	Owner	Eng S/N	Cycle Counter Reading		Date	Cycle Counter Reading	
4-26-79		832069	0000	3000	3-15-85	941	941
			941	3000	7-10-90	1450	509
7-12-90	HTI LOAN POOL		1450	3000	2-4-91	1728	278
4-1-91	"	822374	1728	3000	5-10-91	1864	136
			1570	4570			
	S.A.P.B.	832069			11-1-95	3021	1157
					8-1-06		966
08/21/06	Smitan Holi	832069	0.0		07/24/08	363	1329

ASSEMBLY RECORD

TURBINE ASSEMBLY

Part V
Page No. 3

Turbine Serial Number CAT- 35088

Engine Model 250-C 20B

[illegible]



ENGINE LOG INSTALLATION RECORD

Part V
Page No. 2

LIFE LIMITED ROTATING COMPONENTS

UNIT NAME: **Turbine**

SERIAL NUMBER: **CAT-35088**

ENGINE TYPE/MODEL: **250-C20B**

COMPONENT	Part Number	Serial Number	INSTALLED			REMOVED			REASON
			Date	Unit Total Time Total Cycles	Component Total Time Total Cycles	Date	Unit Total Time Total Cycles	Component Total Time Total Cycles	
3RD STG.WHL.	6899373	HX 44590	5-21-99	3231.1 2947	3231.1 2947	01AUG06	4398.2 3987	4398.2 3987	Life Limit
4th STG.WHL.	6853279	HX 38988	5-21-99	3231.1 2947	2745.2 2676	8-21-08	4833.1 4079	4347.2 4036	Time X
3rd Stg Whl	23001967	KR 78585	01AUG06	4398.2 3987	3601.1 2202	8-21-08	4833.1 2565	4036	Cracked
#1 Noz Shield	6890040	AP5750	01AUG06	4398.2 3987	TSO: 0.0 CSO: 0	8-21-08	4833.1 ----	----	
#1 Noz Shield	6890040	774- Lot106	8-21-08	4833.1	TSI: 0.0				
1st Stg Wheel	23073853	X 568834	8-21-08	4833.1	0.0				
2nd Stg Wheel	23073854	X 574455	8-21-08	4833.1	0.0				
3rd Stg Wheel	23065818	X 520008	8-21-08	4833.1	2909.4				
4th Stg Wheel	23055944	X 542586	8-21-08	4833.1	2909.4				



ENGINE LOG INSTALLATION RECORD LIFE LIMITED ROTATING COMPONENTS

Part V
Page No. 1
DUPLICATE H 7-10-90

250-
C20B

UNIT NAME: **Turbine**

SERIAL NUMBER: **CAT-35088**

ENGINE TYPE/MODEL:

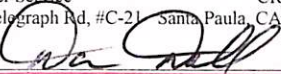
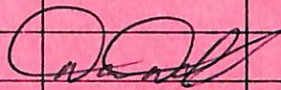
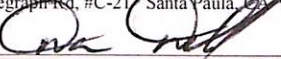
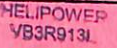
COMPONENT	Part Number	Serial Number	INSTALLED			REMOVED			REASON
			Date	Unit Total Time Total Cycles	Component Total Time Total Cycles	Date	Unit Total Time Total Cycles	Component Total Time Total Cycles	
1st Stg Whl	6886407	X86583	3-15-85	913.2 941	0.0 0	5/23/91	1458.5 1864	545.3 923	CONVENIENCE
2ND STG WHL	6898782	X44170	4-26-79	0.0 NEW	NEW	5/23/91	1458.5 1864	1458.5 1864	CONVENIENCE
3RD STG WHL	6899373	HX 44590	4-26-79	0.0 NEW	NEW	4-9-99	3231.1 2947	3231.1 2947	Overhaul
4TH STG WHL	6853279	HX 35158	4-26-79	0.0 NEW	NEW	4-9-99	3231.1 2947	3231.1 2947	Overhaul
1ST STG WHL	6886407	X117209	4/11/91	1458.5 1864	NEW NEW	4-9-99	3231.1 2947	1772.6 1083	Overhaul
2ND STG WHL	6898782	HX 104764	4/11/91	1458.5 1864	NEW NEW	4-9-99	3231.1 2947	1772.6 1083	Overhaul
1st STG. WHL.	6886407	X147440	5-21-99	3231.1 2947	0.0 0	8-21-08	4833.1	1602.0 1403	HMT
2nd STG. WH.	6898782	Hx125426	5-21-99	3231.1 2947	0.0 0	8-21-08	4833.1	1602.0 1403	HMT

INSPECTION — MAINTENANCE — OVERHAUL RECORD

TURBINE ASSEMBLY

Turbine Serial Number CAT— 35088

Engine Model 250-C 20B

Date	Turbine Time		Remarks	Signature	Organization
	Since OH	Total			
21-Aug-08	1602.0	4833.1	Replaced #1, #2, #3, & #4 Wheels, Enhanced Power Turbine, Installed Energy Ring, Per H.P. W/O 7675T. Tie Bolt Access: P/N 23068265 S/N NM90933 Free Length: 6.885 Stretch: 6.900 The aircraft and/or component identified herein was repaired and inspected in accordance with current Federal Aviation Administration Regulations and was found Airworthy for return to service. Pertinent details of the repair are on file at this Agency under W/O 7675T Date 8-21-08 Helipower Service CRS VB3R913L 15500 Telegraph Rd, #C-21 Santa Paula, CA 93060 Signed 		
5/11/2010	2163.6	5394.7	Replace Oil Bellows Seal Per Current Manual (1013) Under H.P. W/O 8088T. No Tie Bolt Access The aircraft and/or component identified herein was repaired and inspected in accordance with current Federal Aviation Administration Regulations and was found Airworthy for return to service. Pertinent details of the repair are on file at this Agency under W/O 8088T Date 5-11-2010 Helipower Service CRS VB3R913L 15500 Telegraph Rd, #C-21 Santa Paula, CA 93060 Signed 		

INSPECTION — MAINTENANCE — OVERHAUL RECORD
TURBINE ASSEMBLY

A-3A042-7 R2-82

Turbine Serial Number _____ Engine Model _____

Date	Turbine Time		Remarks	Signature	Organization
	Since OH	Total			
2-1-96	NEW	2953.6	REPAIRED TURBINE ASSY. FOR METAL IN	<i>R. Bousie</i>	NAC LONG BEACH
	CSO NEW	TC 2727	OIL & N1 RUB. TIE BOLT S/N DJ60464.		
			FREE LENGTH 6.880. STRETCH .014.		
			DETAILS ON FILE UNDER W/O ZW95		
			TT1941. UNIT TESTED.		RS# NH6R616J
5-21-99	0.0	3231.1	Overhauled and Tested I.A.W.	<i>W. B.</i>	NAC Lng Beach
		TC:2947	Allison Manual 10W3. Tie Bolt		
			P/N 23008020, S/NDJ60464,		
			Free Length 6.879, Stretched		
			Length 6.894. Details on File		
			Under W/O LE 946-TT3824		



Date	Turbine Time		Remarks	Signature	Organization
	Since OH	Total			
3-15-85	0.0	913.2	Replaced first stage wheel due to stator seal leak. Ref RS 7677	<i>[Signature]</i>	Aviall
7-10-90	NEW	1115.5	EXTERNALLY INSPECTED FOUND OK FOR TIME CONTINUED SERVICE, DETAILS ON FILE UNDER J/O 01148	<i>[Signature]</i> <i>[Circular Stamp: H 1]</i>	HELI-TURBINE INTERNATIONAL CRS 405-136
6/11/91	NEW	1458.5	COMPLIED WITH CSL1165 OPTION B. 1750 HEAVY MAINTENANCE INSPECTION FOR TIME CONTINUED SERVICE. DETAILS ON FILE UNDER J/O 01228.	<i>[Signature]</i>	HELI-TURBINE INTERNATIONAL DU 3R462L

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MODIFICATION RECORD

TURBINE ASSEMBLY

Turbine Serial Number CAT - 35088Engine Model 250-C20B

Compliance Date	Bulletin or Directive No.	Title	Signature	Organization
01-AUG-06	CEB 1370	#1 Nozzle Shield Inspect-6890040 Installed	<i>[Signature]</i>	HELIPOWER VB3R913L
21-Aug-2008	CEB A1253	#1 & #2 Nozzle Rework	<i>[Signature]</i>	HELIPOWER VB3R913L
21-Aug-2008	CEB A1254	GP Support Rework	<i>[Signature]</i>	
21-Aug-2008	CEB A1255	Energy Ring Install	<i>[Signature]</i>	
21-Aug-2008	AD2005-10-13	Energy Ring Install	<i>[Signature]</i>	
21-Aug-2008	CEB 1365	Enhanced Power Turbine	<i>[Signature]</i>	
21-Aug-2008	CEB A1371	Tie Bolt Replace	<i>[Signature]</i>	
21-Aug-2008	AD1006-13-06	Tie Bolt Replace	<i>[Signature]</i>	
21-Aug-2008	CEB A1375	#2 Nozzle Diaphragm	<i>[Signature]</i>	
21-Aug-2008	CEB A1370	#1 Nozzle Shield FPI 1000 Cycles	<i>[Signature]</i>	
21-Aug-2008	CEB A1398	Outer Shaft N/A by S/N Installed	<i>[Signature]</i>	
21-Aug-2008	CEB 1399	#8 Sump Wall Thickness	<i>[Signature]</i>	HELIPOWER VB3R913L
1/30/2009	CEB 1402	PT Gov. Brng Replacement N/A by P/N	<i>[Signature]</i>	1596539 IFA

MODIFICATION RECORD

TURBINE ASSEMBLY

Turbine Serial Number CAT - 35088

Engine Model 250-C20B

Compliance Date	Bulletin or Directive No.	Title	Signature	Organization
7-10-90	CEB A1292	N/A TURBINE ASSY PRIOR TO AFFECTED ADAPTERS	<i>[Signature]</i>	HTI 405-136
7-10-90	CEB 1161	REPLACE #6&7 OIL NOZZLE	<i>[Signature]</i>	HTI 405-136
6/11/91	CEB 1158	REWORK PT OUTER NUT	<i>[Signature]</i>	HELI-TURBINE
6/11/91	CEB 1204	6 & 7 BEARING RETAINING RING	<i>[Signature]</i>	HELI-TURBINE
6/11/91	CEB 1283	ALSEAL INNER & OUTER SHAFTS	<i>[Signature]</i>	HELI-TURBINE
6/11/91	CEB 1223	NOZZLE SHIELD POSITION PLUGS	<i>[Signature]</i>	HELI-TURBINE
6/11/91	CSL 1165 "B"	1750 HEAVY MAINTENANCE INSPECTION	<i>[Signature]</i>	HELI-TURBINE
1/23/95	AD 83-03-0281	3rd stage turbine; N/A by P/N	<i>[Signature]</i>	S.A.P.B
2-1-96	DIL - 201	N.D.T. OF NO.1 TURBINE WHEEL.	<i>[Signature]</i>	NAC LONG BEACH
02/01/96	CEB 1212	REPLACEMENT OF TIG BOLT	<i>[Signature]</i>	NAC Long Beach
5-21-99	CEB 1267	#2 Wheel-reduced Balance Seal Knife-PCW	<i>[Signature]</i>	NAC Lng Beach
5-21-99	CEB-A-1342	N/A By Date Code	<i>[Signature]</i>	NAC Lng Beach
5-21-99	AD 96-19-01	N/A BY #s & #8 Bearing P/N'S	<i>[Signature]</i>	NAC Lng Beach
3-23-2005	CEB-A1394	C/W by Replacement w/o o.h.s. 5011	<i>[Signature]</i>	Sutton/Helicopters

FORM 2782D (F) (11-77)

SERVICE RECORD

TURBINE ASSEMBLY

Part 1
Page No. 1Turbine Serial Number CAT - 35088Engine Model 250-C20B

INSTALLED					REMOVED			
Date	Owner	A/C or Eng. S/N	Turbine Time		Date	Turbine Time		Reason
			Since OH	Total		Since OH	Total	
4-26-79		832069	NEW	0.0	3-15-85	NEW	913.2	R&R 1RST STG WHL
		832069	NEW	913.2	7-10-90	NEW	1115.5	CONVIENANCE
7-12-90	HTI LOAN POOL	822915	NEW	1115.5	10-23-90	NEW	1195.5	CONVIENANCE
10 25 90	HTI Loan Pool	830462	NEW	1195.5	2-4-91	NEW	1329.5	CONVIENANCE
4-1-91	HTI	822374	NEW	1329.5	3-10-91	NEW	1458.5	Return
			NEW	1458.5	1-12-96	NEW	2953.6	M.I.O. AND N1 RUB
6/20/96	RCS	832069	NEW	2953.6	4/12/99	NEW	3231.1	O.H.
6/4/99	Windriver Heli	832069	0.0	3231.1	24 JUL 06	1167.1	4398.2	#3 Wheel Change
16 AUG 06	Wind River	832069	1167.1	4398.2	07/24/08	1602.0	4833.1	1750 Insp & 12-ph 7.0-f Temps @ Power Check.
02-Sep-08	Sinton Heli	CAE830723	1602.0	4833.1	5/6/2010	2163.6	5394.7	Bellows Seal
5/11/2010	Sinton Heli	CAE-830723	2163.6	5394.7	7/23/2013	3239.6	6470.6	Overhaul