

ENGINE TEST RESULTS

Model 250-C30SE

Customer: CANADIAN HELICOPTERS LIMITED *
Date: 31-JAN-2006
TCN: LW592609
S/O: BDHJ5

Engine S/N: CAE890381
Comp S/N: CAC90648
Turbine S/N: CAT98288
Gearbox S/N: CAG90797
RGB S/N: N/A

Engine performance data corrected to sea level, static (unity ram) standard day

Setting	GRC	CRB	CRA	NCR	TO	2.5 Min
GPLOT					1317.0	1371.0
SHP					672.2	728.5
Min Allow	334.0	418.0	501.0	557.0	650.0	700.0
% Var				+5.8 %	+3.4 %	+4.1 %
SFC	0.703	0.645	0.609	0.586	0.572	0.566
Max Allow	0.719	0.665	0.624	0.607	0.592	0.588
% Var	-2.19 %	-3.09 %	-2.30 %	-3.50 %	-3.40 %	-3.70 %

T/M Calibration at 700 HP = 99.1 PSIG

Seal Vent Orifice Size = -2

I hereby certify that the engine identified above has been tested in accordance with Rolls-Royce overhaul manual 14W3 ED2 REV 11 01 APR 2005 for the specified workscope.



Standard Aero Ltd.

EXPORT CONTROLLED
Rolls-Royce
250-C30 SERIES OPERATION AND MAINTENANCE

TABLE 603

TCN: L1579269 5/10 CBE 890381 TAD 31,2006

INITIAL	150 HOUR INSPECTION	REFERENCE SECTION	REMARKS
1. SAL 1000 DI	Inspect the engine for obvious loose bolts, broken or loose connections, security of mounting accessories, and broken or missing safeties. Check accessible areas for obvious damage and evidence of fuel and oil leakage. Check B-nuts for presence and alignment of torque stripes. B-nuts with missing torque stripes must be loosened and retightened, before application of new torque stripes.	72-30-00, para 4.B.	
2. SAL 1000 DI	Inspect the compressor impeller leading edges for damage.	72-30-00, para 4.B.	
3. SAL 1000 DI	Clean the compressor, as required, with a chemical wash solution if dirt buildup is evident.	72-30-00, para 5.B.	
4. SAL 1000 DI	Without disassembly, inspect the turbine and exhaust collector supports for condition of welded joints, cracks and buckling.	72-50-00, para 6.L, and para 8.B.	
5. SAL 1000 DI	Using a small mirror and a flashlight, inspect flow divider inside turbine and exhaust collector support for cracks or separated tack welds. If cracking of sheet metal or welds is found but limits are not exceeded, inspect every 25 hours until support is repaired, flow divider is removed, or limits are exceeded.	72-50-00, para 6.L, and para 8.B.	Compliance with 250 CEB 72-3040 eliminates this inspection requirement.
6. SAL 1000 DI	Inspect the engine fuel system for evidence of leakage. Check condition and security of fittings and tubing. Check fuel control lever for freedom of operation and full travel. Check condition and security of all linkages.	73-00-00, para 2.A.	
7. SAL 1000 DI	Inspect the engine mounts for condition and security. (REAR ONLY)	72-40-00, para 2.B.(1)	Outer combustion cases without brazed reinforcement wire patches, comply with inspection requirements of 250 CEB-A-72-3115.
8. SAL 1000 DI	Perform a detailed visual inspection of the outer combustion case. Using a bright light (flashlight or equivalent), inspect all weld areas for cracks.	72-40-00, para 2.B.(1)	

72-00-00

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TABLE 603 (cont)

TCN 410592609 5/0 (AEB 890381 JAN 31, 2006)

REMARKS	REFERENCE SECTION	150 HOUR INSPECTION	INITIAL
Reference 250 CEB-A-72-3124, Revision No. 2		<p>9. Inspect electrical harness for loose, chafed, frayed, or broken wires and loose connectors.</p> <p>10. For aircraft with external energy absorbing ring installed, inspect ring upper bracket for cracks.</p>	<p>11. Check oil supply level. N/A</p> <p>12. Inspect for extension of impending oil filter bypass indicator. If indicator is extended, clean oil filter. N/A</p>
<p>CAUTION: NORMAL ENGINES USE A MINIMAL AMOUNT OF OIL. HOWEVER, ANY SUDDEN INCREASE IN OIL CONSUMPTION IS INDICATIVE OF OIL SYSTEM PROBLEMS AND MUST BE CORRECTED.</p>	<p>72-00-00, Table 101 Trouble-shooting items 17 and 18.</p>	<p>NOTE: Check oil supply level within 15 minutes of engine shutdown.</p>	<p>If the engine has been idle for more than 15 minutes, motor the engine for 30 seconds to scavenge any oil that may have drained into the gearbox from the oil tank. Failure to completely scavenge the oil from the gearbox will cause a false indication of high oil consumption. See Post Flight Check No. 3</p> <p>It is possible for the impending oil filter bypass indicator to extend during a start of a cold soaked engine, giving an erroneous indication of a dirty oil filter. If the impending filter bypass indicator is extended, run the engine until the oil is at operating temperature and push the indicator button in. If the button remains in throughout the normal speed range of the engine, the filter does not require cleaning.</p>
	<p>72-60-00, PARA 1.C.</p>		

EXPORT CONTROLLED
Rolls-Royce
250-C30 SERIES OPERATION AND MAINTENANCE

TABLE 603 (cont)

REMARKS	REFERENCE SECTION	150 HOUR INSPECTION
<p>CAUTION: WHEN THERE IS EVIDENCE THAT THE AIRFRAME OR ENGINE FUEL FILTER HAS BEEN BYPASSED, THE GAS PRODUCER FUEL CONTROL INLET FILTER, THE FUEL NOZZLE FILTER, MUST BE CLEANED. (REFER TO SPECIAL INSPECTIONS, 72-00-00, TABLE 607) IF ANY CONTAMINATION IS FOUND IN THE FUEL NOZZLE FILTER, THIS WILL REQUIRE THAT THE FUEL CONTROL BE SENT TO AN AUTHORIZED REPAIR FACILITY FOR INTERNAL CLEANING. REFERENCE MUST ALSO BE MADE TO THE AIRFRAME MAINTENANCE MANUAL FOR FUEL SYSTEM MAINTENANCE FOLLOWING FUEL CONTAMINATION.</p>	<p>73-10-05, PARA 2. 73-20-02, PARA 5.A.</p>	<p>3. Inspect for extension of impending fuel filter bypass indicator.</p> <p>3.A. Clean and inspect the fuel nozzle. If no air-frame mounted fuel filter is installed, inspect the fuel nozzle filter.</p> <p>14. Record component changes, inspections, and compliance with technical instructions as required. Report engine difficulties to Rolls-Royce and/or Authorized Maintenance Center (AMC) on Model 250 report, Form 8117-1 (Rev. 5-94) as required.</p> <p>15. Without disassembly, check the compressor discharge air tubes. Inspect for air leaks, dents, cracks, chafing, and proper clamping.</p> <p>16. Inspect compressor scroll for cracks. Pay particular attention to welded areas.</p> <p>17. Clean the burner drain valve.</p> <p>18. Inspect the anti-icing, bleed air, and overspeed solenoid valves for loose, chafed, frayed or broken wires, loose connections and security of attachment.</p>
<p>If indicator is extended, replace fuel filter.</p> <p>Inspect fuel filter in the fuel control and the filter in the fuel nozzle. Ground run engine to assure proper operation of control system.</p> <p>Install fuel nozzle with proper number of spacers.</p>	<p>73-10-03</p>	<p>14. Record component changes, inspections, and compliance with technical instructions as required. Report engine difficulties to Rolls-Royce and/or Authorized Maintenance Center (AMC) on Model 250 report, Form 8117-1 (Rev. 5-94) as required.</p> <p>15. Without disassembly, check the compressor discharge air tubes. Inspect for air leaks, dents, cracks, chafing, and proper clamping.</p> <p>16. Inspect compressor scroll for cracks. Pay particular attention to welded areas.</p> <p>17. Clean the burner drain valve.</p> <p>18. Inspect the anti-icing, bleed air, and overspeed solenoid valves for loose, chafed, frayed or broken wires, loose connections and security of attachment.</p>
<p>Ensure that the airframe overboard is clear. Refer to aircraft manual for maintenance procedures.</p>	<p>72-40-00, PARA 3, Table 203.</p>	<p>14. Record component changes, inspections, and compliance with technical instructions as required. Report engine difficulties to Rolls-Royce and/or Authorized Maintenance Center (AMC) on Model 250 report, Form 8117-1 (Rev. 5-94) as required.</p> <p>15. Without disassembly, check the compressor discharge air tubes. Inspect for air leaks, dents, cracks, chafing, and proper clamping.</p> <p>16. Inspect compressor scroll for cracks. Pay particular attention to welded areas.</p> <p>17. Clean the burner drain valve.</p> <p>18. Inspect the anti-icing, bleed air, and overspeed solenoid valves for loose, chafed, frayed or broken wires, loose connections and security of attachment.</p>

72-00-00

TABLE 603 (cont)

JAN 31, 2006 5/2 GAE 890381 5/2 GAE 890381

INITIAL	150 HOUR INSPECTION	REFERENCE SECTION	REMARKS
N/A	<p>26. Drain the oil system and refill.</p> <p>Oil changed at: 150 hours; 300 hours; 600 hours;</p> <p>_____</p> <p>_____</p> <p>_____</p>	<p>72-00-00, PARA 8.D, Engine- Servicing.</p>	<p>6 months max. time limit.</p> <p>NOTE: With an STC approved external scavenge oil filter, oil change interval is 300 hours.</p> <p>NOTE: With an STC approved external scavenge oil filter, and using either Mobil 254 or Aeroshell 560 oils, the oil change interval is 600 hours.</p> <p>NOTE: Refer to 250 CSL-3126, Recommended Sequence, Engine Oil Change for additional instructions.</p> <p>If excessive carbon is found in the filter, inspect the scavenge and pressure oil system. Refer to 72-50-00 PARA 6.E, 6.F, 6.G, 6.H, 7.A, and 7.B.</p>
	<p>27. Service oil filter</p>	<p>72-60-00, PARA 1.C,</p>	<p>Compliance with 250 CEB-A-75-3017 eliminates this inspection requirement.</p>
	<p>28. Inspect P_o filter for proper clamping and security</p>	<p>73-20-03</p>	
	<p>29. Without disassembly or removal of the P_o filter assembly from the mounting bracket, inspect using a 10X magnification and a bright light to detect any signs of cracks, paying particular attention to both of the end fittings at their junction with the end walls. If cracks are detected, remove assembly and comply with 250 CEB-A-75-3017.</p>		

TABLE 603 (cont)

REMARKS	SECTION REFERENCE	150 HOUR INSPECTION	INITIAL
Continued sheet metal or tube cracking may be an indication of excessive engine, engine accessory, or airframe vibration.	72-50-00, PARA 6.K.	19. Inspect the horizontal and vertical firewall shields for cracks.	SAL 1000 DI
Torque must be 120-150 lb in. (14-17 N.m). Compliance with 250 CEB-72-3017 cancels this periodic inspection requirement.	73-20-01, PARA 2.C. and 73-20-02, PARA 2.C.	20. Check fuel control and power turbine governor for proper rigging.	SAL 1000 DI
Torque 60-80 lb in. (6.8-9.0 N.m). No cracks are acceptable. Check each chip detector separately.	72-50-00, PARA 1.B.	21. On power and accessory gearbox cover, check the applied torque on all turbine and exhaust collector support-to-gearbox retaining nuts.	SAL 1000 DI
Torque 60-80 lb in. (6.8-9.0 N.m). No cracks are acceptable. Check each chip detector separately.	72-60-00, PARA 4.B.	22. Remove, clean, operationally test, and reinstall the magnetic drain plugs: a. Standard type - check the chip detector end of the plugs for cracks. b. Quick disconnect - inspect the locking pins and flanged inserts for wear.	SAL 1000 DI
While motoring N ₁ to 16-18% the minimum flow is 90cc in 15 seconds.	74-20-02, PARA 2.	23. Inspect ignition lead for burning, chafing or cracking of conduit. Also, check for loose connectors and/or broken lockwire.	SAL 1000 DI
While motoring N ₁ to 16-18% the minimum flow is 90cc in 15 seconds.	74-20-01, PARA 2.B.	Perform operational check of ignitors.	SAL 1000 DI
While motoring N ₁ to 16-18% the minimum flow is 90cc in 15 seconds.	72-60-00, PARA 1.C.	24. Remove, inspect, clean and reinstall the oil filter.	SAL 1000 DI
While motoring N ₁ to 16-18% the minimum flow is 90cc in 15 seconds.	72-50-00, PARA 6.E.	25. Measure and record power turbine support pressure oil nozzle flow from scavenge oil strut. Record and retain flow record. Flow _____ Compare with previous flow. Any large deviation could indicate carbon buildup.	SAL 1000 DI

TABLE 604 (cont)

TCO 410592609 S/D CAC 890381 JAN 31, 2006

INITIAL	300 HOUR INSPECTION	REFERENCE SECTION	REMARKS
	10. Inspect the rear engine mount for security and excessive bearing wear.	72-00-00, PARA 1.A. (5), Engine-In-spection/Check.	
	11. Remove, clean inspect and reinstall the P _c filter.	73-20-03 PARA 2. and 3.	if engine performance deteriorates, P _c filter cleaning interval may have to be reduced.
	<p>WARNING: PROPER TIGHTENING OF ENGINE TUBING CONNECTIONS IS CRITICAL TO FLIGHT SAFETY. CORRECT TORQUE VALUES MUST BE USED AT ALL TIMES. EXCESSIVE TORQUE ON PNEUMATIC SENSING SYSTEM CONNECTIONS RESULTS IN CRACKING OF THE FLARE CAUSING AN AIR LEAK WHICH CAN CAUSE FLAMEOUT, POWER LOSS OR OVERSPEED.</p>		
	12. Inspect N ₁ shafting.	72-50-00, PARA 6.A.	NOTE: Compliance with 250 CEB 72-3059, 72-3096, 72-3100, A-72-3134 (twin engine applications), and A-72-3135 (single engine applications) eliminates this inspection requirement.
	13. On power and accessory gearbox cover, check the applied torque on all turbine and exhaust collector support-to-gearbox retaining nuts.	72-50-00, para 1.B.	Torque must be 120-150 lb in. (14-17 N.m).

SAT 1000 DI
SAT 1000 DI
SAT 1000 DI
SAT 1000 DI

TABLE 605

INITIAL	600 HOUR INSPECTION	REFERENCE SECTION	REMARKS
	The following inspection is required every 600 hours time since last inspection.		
M/R	1. Perform scavenge oil filter impending bypass function check per Facet Service Bulletin No. 090589 (ref. Rolls-Royce CSL 3116) for all aircraft equipped with an external scavenge filter system.		

72-00-00

TABLE 606

TCN A405792607 S/D CAE 890351 JAN 31 2006

REMARKS	SECTION REFERENCE	2000 HOUR INSPECTION The following inspections are required every 2000 hours time since last inspection.	Turbine to compressor coupling is part of the turbine assembly.
	73-20-02, PARA 5.A, 73-10-03, PARA 2.A, 73-10-05, PARA 2, 72-40-00, PARA 1.C, 72-40-00, PARA 2.B, (2) (3), and (4), 72-40-00, PARA 4.C, 73-21-00, PARA 7.B, 72-30-00, PARA 4.B, (2), 4.C, and 4.E, 72-50-00, PARA 6.A, and 6.B.	<p>Fuel control filter inspection.</p> <p>Fuel nozzle filter inspection</p> <p>Remove and replace the low pressure fuel filter element. Before discarding filter, inspect for signs of contaminants. If any are found, inspect the entire fuel system and clean if necessary.</p> <p>Inspect the combustion liner.</p> <p>Inspect the outer combustion case for cracks using Leak-Tek and/or dye penetrant.</p> <p>Inspect the compressor discharge air tubes.</p> <p>Inspect the N₂ overspeed mounting dampers.</p> <p>Inspect the spur adapter gearshaft, compressor rotor splined adapter and associated impeller bore.</p> <p>Inspect the turbine to compressor coupling, turbine splined adapter, power turbine inner shaft and turbine shaft-to-pinion gear coupling</p>	
		<p>Anytime the compressor is removed from the engine, visually inspect the aft end of the spur adapter gearshaft for worn or damaged splines.</p> <p>Anytime the turbine is removed from the engine visually inspect the splines on the following items, turbine-to-compressor coupling, turbine splined adapter, power turbine outer shaft and turbine shaft-to-pinion gear coupling for worn or damaged splines.</p> <p>If spline wear or damage is observed the appropriate maintenance action is required. (Refer to item 6 and 7 above).</p> <p>Inspection intervals shall not exceed 2000 hours.</p>	
		<p>NOTES: The following inspections are recommended whenever the turbine or compressor is removed in-between the required 2000 hour inspection.</p>	
		<p>9. SAL 1000 DI 8. SAL 1000 DI 7. SAL 1000 DI 6. SAL 1000 DI 5. SAL 1000 DI 4. SAL 1000 DI 3. SAL 1000 DI 2. SAL 1000 DI 1. SAL 1000 DI</p>	

APR 26 2006

STANDARD AERO

To whom it may concern:

The undersigned hereby certifies that:

The engine or component this document accompanies has had its fuel system cleaned and purged of all fuel, both in liquid and gaseous forms.

As the engine does not contain fuel it is not a regulated commodity under I.A.T.A. shipment of dangerous goods regulations, Section 4.4 special provisions A70, as well as Section 5.0.2.13.5.2.

Signature [Handwritten Signature]
Date FEB 9/04



A250 PERFORMANCE REPORT

Wednesday, April 18, 2001
10:57:38 AM

Customer: CHL-E

Model: A250 - C30S Enh
Test Type: Repair
Work Order: 21-3321
Engine S/N: CAE890381s

OBSERVED DATA

Baro: 1017 mbar
LHV: 18513 BTU/lb
Dyno: 6016 RPM
N2: 30650 RPM

N1	45850	47450	49000	49650	50600	51400	51630
Tq	314	393	470	510	567	611	627
T2	59	60	60	60	59	60	60
TOT	1042	1116	1203	1239	1293	1346	1361
WF	246	284	327	350	382	408	415
TI	54	54	54	54	55	55	55
T/M	51.9	64.2	76.7	82.6	92.5	99.6	101.7
PT2	1016	1016	1016	1016	1016	1016	1016
CDP	83.0	92.2	100.6	105.1	111.4	115.7	117.0
PS7	1014	1014	1013	1013	1012	1012	1012

REDUCED DATA

BARO	30.12	30.12	30.12	30.12	30.12	30.12	30.12
PT2	30.09	30.09	30.09	30.09	30.09	30.09	30.09
PS7	30.03	30.03	30.00	30.00	29.97	29.97	29.97
TOT	1041	1114	1202	1237	1294	1344	1359
SHP	358	448	535	580	645	695	713
WF	247	285	328	351	384	409	416
SFC	0.691	0.637	0.614	0.605	0.594	0.589	0.584

TESTED IN ACCORDANCE WITH: 14W3

TS Ohms: 0.34
Comment: Repaired for making metal

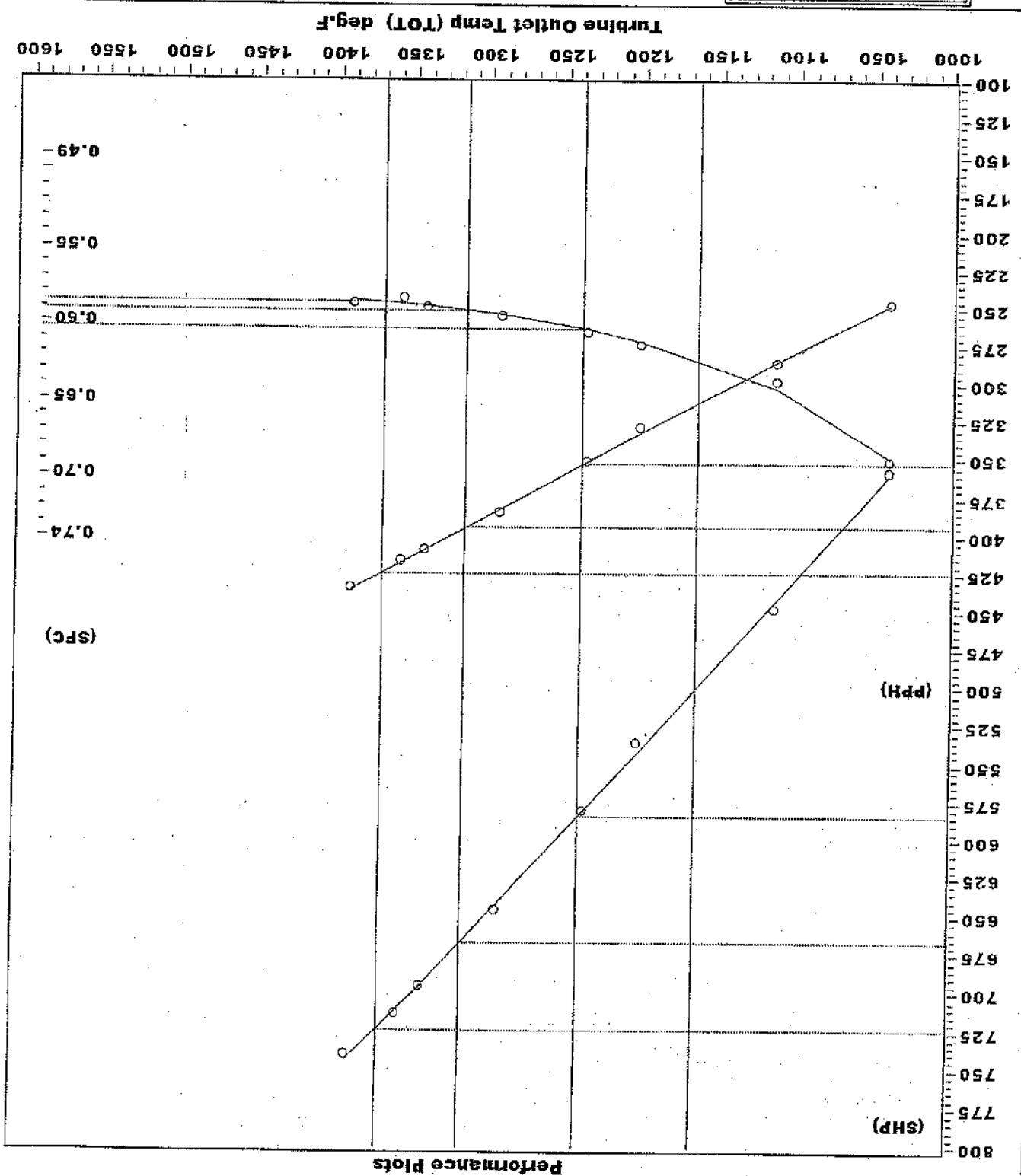
Operator 1: LIm
Operator 2: D Chan

Inspector: _____
 W/O: 21-3321
 S/N: CAE890381s
 Wednesday, April 18, 2001
 10:57:46 AM



C30		C30S		
%SHP	%SFC	%SHP	%SFC	
4.8	-0.7	8.9	5.7	5.5
2.5	-0.2	5.7	5.7	5.5
3.3	-0.3	12.9	10.7	11.0
SFC		SHP		
0.603	0.591	0.588		
351.8	393.7	423.5		
683.5	666.2	722.8		
1240.0	1317.0	1371.0		
CR. A N. CR. T.O. 2.5 Min.				

A250 - C30S Enh

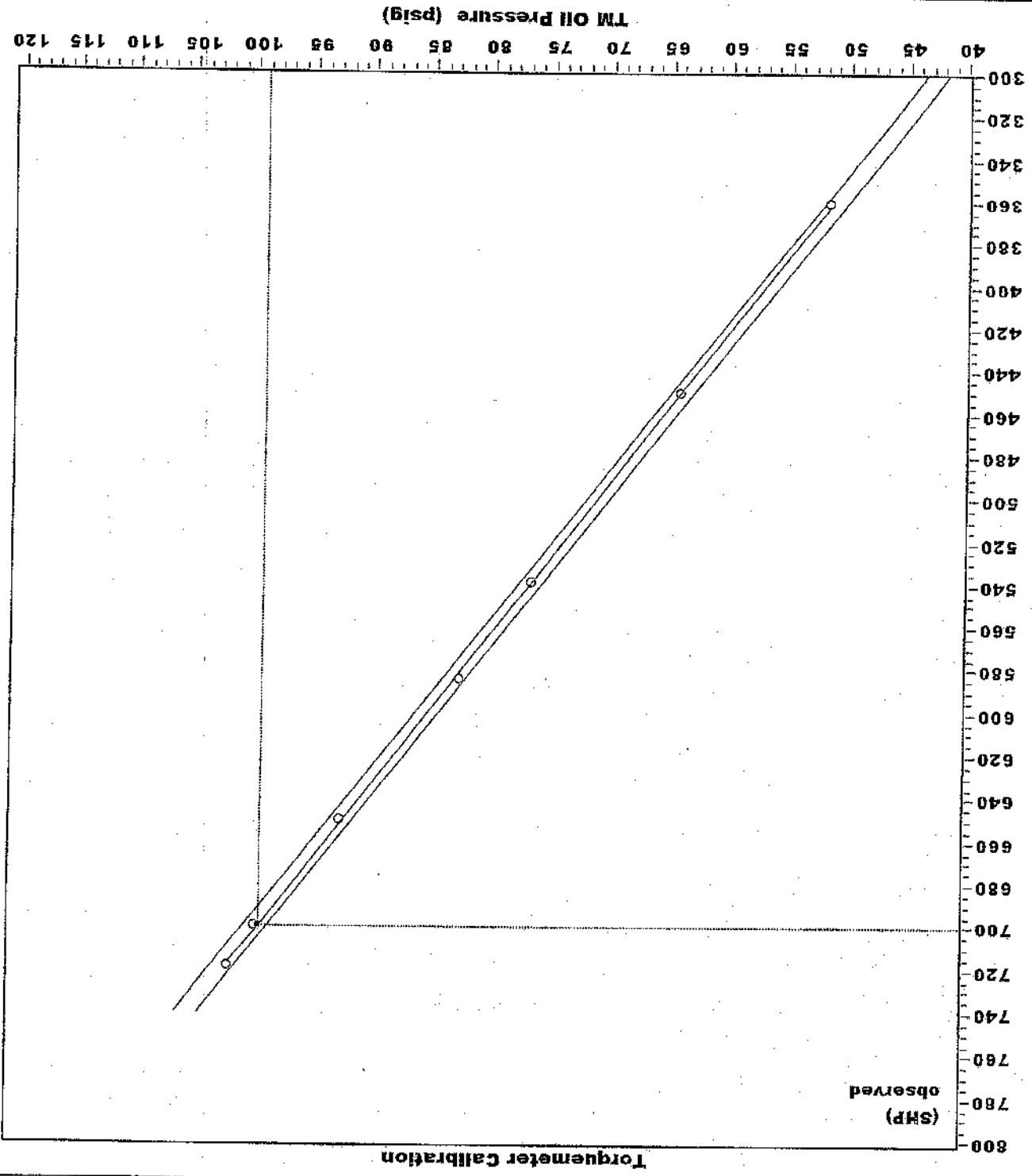


Inspector:

10:57:53 AM
Wednesday, April 18, 2001
S/N: CAE890381S
W/O: 21-3321



A250 - C30S Enh		
PSIG	@	SHP
48.1		334.0
59.8		418.0
71.5		501.0
79.3		557.0
92.3		650.0
99.3		700.0



TEMP	TIME	PRESS. M.B.	PRESS. "H"
59.6	10:06	101.4	30.03

BAROMETER
 TYPE OF TEST: REGULAR
 DATE OF TEST: 18 APRIL 2001

ACRO AEROSPACE
 ALLISON 250 C30C30S1C30S Emh
 ENGINE TEST LOG

FUEL SPEC. JET-A-1	ENGINE S/N CAE 8703818	TEST NUMBER: 1
LUBE OIL SPEC. MIL-L-23699	MODEL 250 C30 & Emh	WORK ORDER: 21-332-1
FUEL LOW: HEAT VALUE 18513 BTU/LB	MANUAL NO.: 14WS	OWNER: CHL-E

SETTINGS	UNITS	NOTED	START	4	5	5	5	5	6	6	7	7	8	8	9	9	10	11	12
TIME		09:12	09:12	09:12	09:12	09:12	09:12	09:12	09:12	09:12	09:12	09:12	09:12	09:12	09:12	09:12	09:12	09:12	09:12
NI SPEED	RPM	10063	3770	50470	57550	49800	49800	49800	49800	49800	49800	49800	49800	49800	49800	49800	49800	49800	49800
NI (ARC/NFT)	%	63.2	94.0	101.2	101.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
NI (ARC/NFT)	RPM	2830	36650	30650	30650	30650	30650	30650	30650	30650	30650	30650	30650	30650	30650	30650	30650	30650	30650
NI (ARC/NFT)	%	81	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
DYNO SPEED	RPM	4881	6016	6016	6016	6016	6016	6016	6016	6016	6016	6016	6016	6016	6016	6016	6016	6016	6016
DYNO TORQUE	FT LBS	7	567	627	627	627	627	627	627	627	627	627	627	627	627	627	627	627	627
12 CELL REFR.		56.1	56.6	53.8	53.8	56.0	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9
TTS INDICATED T.O.T.		790	1282	1358	1358	1206	1236	1197	761	1288	740	1290	1800	750	1207	1301	1317	1043	1110
OBSERVED FUEL FLOW	LB/HR	-	318	446	446	330	334	329	-	380	-	380	380	-	380	388	419	247	283
NAF-CORRECT @ 18000 EG-16	LB/HR	-	101	379	446	331	335	330	119	381	94	381	113	177	384	420	246	284	314
FUEL PRESSURE	P.S.I.	162	536	577	577	331	335	330	119	381	94	381	113	177	384	420	246	284	314
FUEL BOOST	P.S.I.	185	844	68	68	10.5	18.3	10.5	18.3	19.2	N/A	18.4	N/A	13.3	12.1	5.4	5.4	5.4	5.4
FUEL TEMPERATURE	F	64	53	52	52	53	54	53	54	53	31060	53	2870	119.8	119.8	119.8	119.8	119.8	119.8
OIL IN TEMPERATURE	F	373	198	198	198	119.4	119.4	119.4	119.4	119.4	119.4	119.4	119.4	119.4	119.4	119.4	119.4	119.4	119.4
OIL OUT TEMPERATURE	F	82	194	194	194	194	194	194	188	189	189	189	185	192	193	192	193	193	193
TORQUEMENTER (WBT)	P.S.I.	111	263	268	268	78.3	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9
SCAV. OIL PRESSURE	P.S.I.	6.9	27.1	37.1	40.0	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6
OIL IN PRESSURE	P.S.I.	0.9	0.1	0.7	0.7	0.8	1.1	0.8	1.1	1.0	1.0	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1
GEARBOX PRESSURE	"H _g	3.0	-9.0	-10.0	-10.0	-6.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
COMP. SEAL VENT	"H _g	3.6	9.8	9.0	9.0	7.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
COMP. DISC PRESSURE	P.S.I.	26.0	118.3	117.6	117.6	74	118.3	101.7	101.7	101.7	101.7	101.7	101.7	101.7	101.7	101.7	101.7	101.7	101.7
PT2	MB	1017	1017	1017	1017	1017	1017	1017	1017	1017	1017	1017	1017	1017	1017	1017	1017	1017	1017
PT3	MB	1014	1012	1011	1011	1013	1045	1045	1045	1045	1045	1045	1045	1045	1045	1045	1045	1045	1045
ANTI-ICE PRESSURE	P.S.I.	-0.3	-1.8	-1.8	-1.8	-1.6	23.3	-1.6	-1.7	-0.3	-1.7	-1.7	-1.7	-1.7	-1.7	-1.7	-1.7	-1.7	-1.7
DYNO PRESSURE	P.S.I.	52	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35
DYNO TEMP 1	"C	19	23	24	24	25	25	25	25	25	25	25	25	25	25	25	25	25	25
DYNO TEMP 2	"C	20	24	23	23	24	24	24	24	24	24	24	24	24	24	24	24	24	24
DYNO H ₂ O IN	"C	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22
DYNO H ₂ O OUT	"C	22	34	35	35	33	33	33	33	33	33	33	33	33	33	33	33	33	33
COMPRESSOR VIB.	IPS	1.9	3.0	3.0	3.0	2.8	2.7	2.3	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
GEARBOX VIB.	IPS	1.5	1.8	1.8	1.8	1.2	1.2	1.1	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
TURBINE VIB.	IPS	1.2	1.8	1.8	1.8	1.2	1.2	1.1	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
START TIME	SEC.	32	38	28	28	26	23	21	14	14	12	4	4	4	4	4	4	4	4
START TEMPERATURE	F	1121	1121	1121	1121	1121	1121	1121	1121	1121	1121	1121	1121	1121	1121	1121	1121	1121	1121
START NUMBER	No.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

REMARKS: <u>SHIFT 711: 0-003</u>	Leak Fuel Line
DYNO WPTIC: 0.0	CHICK FIP TO FEU
T5 RESISTANCE: 134 J	CLBOT REMOVED
ACRO #144 (99)	OK PARTS APT. TO 119.8 PSI
COMPRESSOR S/N CAE 90463	GEARBOX S/N CAG 90453
TURBINE S/N DVT 90310	
FUEL DRAINAGE	ALL
COMB. CHAMBER	ALL
FUEL P. SEAL DRAN	ALL
EXHAUST COLLECTOR	ALL
PIPE SHIELD	N/A
OIL CONSUMPTION	N/A
OIL AT LEVEL	ELAP
START	10:06
FINISH	10:12
COMP. SEAL VENT CHECK DASH NO. 1/4	
TORQUE METER OPERATOR	
HP. 700 PSIG 97.3	
SPEC. GRAVITY OF FUEL: 814 @	
FUEL CONTROL S/N 337108	
PT GOVERNOR S/N 8420021	
CELL FACTOR	1.00
SEA LEVEL - STATIC AIR DENSITY BRAM PERF	
POW. SETTING	N OR T.O.
T.O.T.F	128 1388 1492
MIN ALLOW	637 719 777
% VAR	87 880 700
S.F.C.	412.7 410.7 411.0
MAX ALLOW	607 582 588
% VAR	-1.0 -1.0 -0.8
POW. SETTING	N OR T.O.
T.O.T.F	781 1397 1386
MIN ALLOW	307 687 729
% VAR	587 580 700
S.F.C.	48.9 45.7 45.5
MAX ALLOW	579 587 588
% VAR	-1.3 -0.5 -0.5
POW. SETTING	N OR T.O.
T.O.T.F	1240 1317 1371
MIN ALLOW	574 666 723
% VAR	580 580 700
S.F.C.	44.8 42.5 43.3
MAX ALLOW	603 591 586
% VAR	-1.7 -2.2 -3.2
OPERATOR: L. LINA	TEST
ASPECTOR: D. CHAN	ETS
DATE OF ACCEPTANCE: 18 APR 2001	
TOTAL TIME: 2 HRS 26 MIN	
SHEET 1 OF 2	STARTS 3

BAROMETER

TEMP.	TIME	PRESS. Hg	PRESS. Hg
59.5	10:13	10.17	30.03

TYPE OF TEST: Repair
 DATE OF TEST: 18 APR 2001

ACRO AEROSPACE
ALLISON 250 C30/C30S/C30S Eng
ENGINE TEST LOG

FUEL SPEC. JET A-1	ENGINE SN. CAE <u>8903815</u>	TEST NUMBER: <u>1</u>
LUBE OIL SPEC. MIL-L-23899	MODEL <u>280 C30 & Eng</u>	WORK ORDER: <u>21-3321</u>
FUEL LOW. HEAT VALUE <u>18573 BTU/LB</u>	MANUAL NO. <u>14WS</u>	OWNER: <u>CHL-E</u>

SETTING	UNITS	OIL LEVEL																							
		13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28								
TIME																									
M1 SPEED	RPM	4900	4965	5000	5100	5160	5250	5350	5450	5550	5650	5750	5850	5950	6050	6150	6250	6350	6450	6550	6650	6750	6850	6950	
M2 (MCR) FT/L	RPM	961	976	981	1012	1015	1025	1035	1045	1055	1065	1075	1085	1095	1105	1115	1125	1135	1145	1155	1165	1175	1185	1195	
N2 SPEED	%	3060	3080	3080	3080	3080	3080	3080	3080	3080	3080	3080	3080	3080	3080	3080	3080	3080	3080	3080	3080	3080	3080	3080	
M2 (MCR) FT/L	RPM	182	182	182	182	182	182	182	182	182	182	182	182	182	182	182	182	182	182	182	182	182	182	182	
DYNO SPEED	RPM	6916	6916	6916	6916	6916	6916	6916	6916	6916	6916	6916	6916	6916	6916	6916	6916	6916	6916	6916	6916	6916	6916	6916	
DYNO TORQUE	FT. LBS.	470	510	561	611	627	611	611	611	611	611	611	611	611	611	611	611	611	611	611	611	611	611	611	
72 OIL REF.	%	59	58	58	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	
77 INDICATED T.O.T.	°F	1203	1237	1293	1346	1361	1361	1361	1361	1361	1361	1361	1361	1361	1361	1361	1361	1361	1361	1361	1361	1361	1361	1361	
OBSERVED FUEL FLOW	LB/HR	325	344	381	408	414	414	414	414	414	414	414	414	414	414	414	414	414	414	414	414	414	414	414	
W-CORR-CORR-9989 52-1-6	LB/HR	327	360	387	408	415	415	415	415	415	415	415	415	415	415	415	415	415	415	415	415	415	415	415	
FUEL PRESSURE	P.S.I.	447	490	537	580	542	319	159																	
FUEL BOOST	P.S.I.	10.4	9.7	8.3	7.4	7.1	14.0	18.8																	
FUEL TEMPERATURE	°F	54	54	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	
OIL PRESSURE	P.S.I.	119.3	119.3	119.4	119.6	119.6	119.6	119.6	119.6	119.6	119.6	119.6	119.6	119.6	119.6	119.6	119.6	119.6	119.6	119.6	119.6	119.6	119.6	119.6	
OIL IN TEMPERATURE	°F	194	194	194	194	195	193	182																	
OIL OUT TEMPERATURE	°F	268	262	265	261	270	254	209																	
TORQUE METER (MET)	P.S.I.	36.7	87.6	92.5	99.6	101.7	51.6	2.1																	
SOAV. OIL PRESSURE	P.S.I.	38.6	38.3	38.2	38.1	39.2	38.8	269																	
OIL IN PRESSURE	P.S.I.	0.8	0.7	0.7	0.6	0.6	0.9	1.0																	
GEARBOX PRESSURE	°F	4.5	6.5	9.0	10.5	11.5	10.0	3.5																	
COMP. SEAL VENT	Hg	8.4	8.1	9.1	8.4	8.4	2.1																		
COMP. DISC PRESSURE	P.S.I.	100.6	106.1	111.4	113.7	113.0	87.8	114																	
P/Z	MB	1016	1016	1016	1016	1016	1016	1016																	
PSI	MB	1013	1013	1012	1012	1012	1014	1015																	
ANTIICE PRESSURE	P.S.I.	-1.6	-1.7	-1.8	-1.8	-1.8	-1.3	-0.4																	
DYNO PRESSURE	P.S.I.	35	36	35	35	35	35	52																	
DYNO TEMP 1	°C	27	28	28	29	29	29	27																	
DYNO TEMP 2	°C	29	30	31	31	32	32	29																	
DYNO I/O IN	°C	22	24	24	24	23	23	24																	
DYNO I/O OUT	°C	33	34	34	36	36	30	24																	
COMPRESSOR VIB	PS	27	27	26	24	25	26	19																	
GEARBOX VIB	PS	19	18	18	18	19	18	15																	
TURBINE VIB	SEC	2.2	2.7	2.4	2.5	2.6	3.3	1.2																	
START TIME	°F																								
START TEMPERATURE	°F																								
START NUMBER	No.																								

REMARKS: COND 28)
OP 29) WATER
INSTR 31) BMT

COMPRESSOR SN CAE 806423
 GEARBOX SN CAE 904453
 TURBINE SN CAE 903260

INSPECTOR: L. LUNA ASST
 OPERATOR: D. CHIQUIN LET-4
 DATE OF ACCEPTANCE: 18 APR 2001
 TOTAL TIME: 2 HRS 20 MIN
 SHEET: 2 OF 3 STARTS: 3

1. Approving national aviation authority/country **2.** **AUTHORIZED RELEASE CERTIFICATE**
Transport Canada **TCCA 24-0078**

3. Form Tracking No. **ARCI 232499**
5. Work Order/Contract/Invoice **L725370**

4. Approved organization name and address **STANDARD AERO, 33 ALLEN DYNE, WINNIPEG, MANITOBA, CANADA, R3H 1A1**
AMO Approval No. 22-58

6. Item **7. Description** **8. Part No.** **9. Eligibility*** **10. Qty.** **11. Serial/batch No.** **12. Status/Work**
01 **C30 GOVERNOR** **23070106** **N/A** **1** **84020051** **Overhauled**


13. Remarks
 THE PRODUCT IDENTIFIED ABOVE HAS BEEN OVERHAULED AND TESTED IN ACCORDANCE WITH ROLLS-ROYCE COMPONENT MAINTENANCE MANUAL CSP 24009 EDITION 1 REVISION 7 DATED 15/JUN/2004 AND THE CURRENT MAINTENANCE RULES OF THE CANADIAN AVIATION REGULATION. THE PRODUCT IS APPROVED FOR RETURN TO SERVICE IN COMPLIANCE WITH CAR 571, PAR PART 43.17 AND EASA PART 145(REF. EASA APPROVAL CERTIFICATE EASA 145, 7059). ALL PERTINENT DETAILS OF THE WORK PERFORMED ARE ON FILE AT THIS ORGANIZATION UNDER WORK ORDER: L725370
 TSN: UNK. TSO: 0.0HRS.
 CEB 73-3017: EMBODIED.

14. Certifies that the items identified above were manufactured in conformity to:
 Approved design data and are in condition for safe operation.
 Non approved design data specified in block 13.

15. Authorized signature **16. Certificate/Approval ref. No.** **19. Certifies that, except where otherwise specified in block 13, the work identified in block 12 and described in block 13 was performed in accordance with CAR 571.**
 N/A N/A
 CAR 571.10 Maintenance release.
 Other regulations specified in block 13.

17. Name **18. Date (dd/mm/yyyy)** **20. Authorized signature** **21. Certificate/Approval ref. No.**
 N/A N/A
 CUC PHAN
 S.A.L. 341 01
 AMO Approval No. 22-58
22. Name **23. Date (dd/mm/yyyy)**
 CUC PHAN 29-Oct-2008

1. This document does not constitute authority to install part.
 2. Where the installer works in accordance with the national regulations of an airworthiness authority other than the authority specified in block 1, the installer must ensure that his/her airworthiness authority accepts products or maintenance from the airworthiness authority specified in block 1.
 3. Statements 14 and 19 do not constitute installation certification. In all cases the aircraft technical record must contain an installation certification, issued in accordance with the national regulations of the state of registry, before the aircraft may be flown.
 1209/2001

1. Approving Civil Aviation Authority/Country Transport Canada		2. AUTHORIZED RELEASE CERTIFICATE FORM ONE		3. Form Tracking No. ARCLW272163	
4. Organization name and address  STANDARD AERO LTD 33 ALLEN DYNE RD. WINNIPEG, MANITOBA, CANADA, R3H 1A1 AMO Approval No. 22-58				5. Work Order/Contract/Invoice LW758708	
6. Item Description 01 ENGINE ASSEMBLY		8. Part No. 23005290		9. Qty. 1	
10. Serial/batch No. CAE-890381		11. Status/Work Repaired			



12. Remarks TSN: 9968.7 TSO: 8023.2 CSN: 18758
PO: 527105

The product identified complete with (2) vibration brackets (less N2 Overspeed Control, Start Counter, Fuel Hose, Fuel Control to Fireshield Tube & Solenoid to Bleed Valve Tube) has been repaired for Metal Generation (OCC & Discharge Tubes were NDT inspected & pressure tested; a new Combustion Liner was installed) (Compressor Assy s/n CAC-90451 installed) (Gearbox Assy s/n CAG-90208 installed) (Turbine Assy s/n CAT-90157 installed) & tested (159 hr vibration test performed) in accordance with Rolls Royce 250-C30 Overhaul Manual 14W3 2nd Ed. 15th Rev. Dated 01/04/09 and the current maintenance rules of the Canadian Aviation Regulations. 150, 300 & 2000 hr inspections have been complied with (engine only) as indicated in the supplied checklist law Maintenance Manual 14W2 6th Ed. 15th Rev. Dated 15/11/08. The following major parts were replaced: Turbine Assy, Compressor Assy, Vent Tube Flanged Adapter, Compressor to Turbine Vent Tube, Combustion Liner, (6) Tube Assy's & Lube Check Valve. The product is released serviceable for return to service in compliance with CAR 571, FAR Part 43.17 and EASA Part 145 (reference EASA Approval EASA.145.7059). All pertinent details of work performed are on file at this organization under Work Order LW758708.

The engine comprises of the following:

Module	P/N	S/N	TTSN	TSO	TCSN	CSO
Compressor	23051643	CAC-90451	9313.4	new	20,053	new
Gearbox	23035179	CAG-90208	14,293.2	4254.8	n/a	n/a
Turbine	23035128	CAT-90157	10,596.0	0.0	21,624	0

COPY

13a. Certifies that the items identified above were manufactured in conformity to:		14a. <input checked="" type="checkbox"/> CAR 571.10 Maintenance release. <input checked="" type="checkbox"/> Other regulations specified in block 12.	
<input type="checkbox"/> Approved design data and are in condition for safe operation. <input type="checkbox"/> Non approved design data specified in block 12.		Certifies that, except where otherwise specified in block 12, the work identified in block 11 and described in block 12 was performed in accordance with Canadian Aviation Regulations.	
13b. Signature N/A	13c. Approved Organization Number N/A	14b. Signature 	14c. Approved Organization Number AMO Approval No. 22-58 
13d. Name N/A	13e. Date (dd/mm/yyyy) N/A	14d. Name LORNA RICHARD	14e. Date (dd/mm/yyyy) 11-Sep-2009

1. This document does not constitute authority to install part.
2. Where the installer works in accordance with the national regulations of an airworthiness authority other than the authority specified in block 1, the installer must ensure that his/her airworthiness authority accepts products or maintenance from the airworthiness authority specified in block 1.
3. Statements 13a and 14a do not constitute installation certification. In all cases the aircraft technical record must contain an installation certification, issued in accordance with the national regulations of the state of registry, before the aircraft may be flown.
(Previously Form 24-0078)



Engine Test Results

Model 250-C30SE

Customer: CANADIAN HELICOPTERS LIMITED ***

Date: 8-Sep-09

TCN: LW758708

Shop Order: LPM8N

Run No.: 3

Engine S/N: CAE-890381

Comp S/N: CAC-80451

Turbine S/N: CAT-90157

Gearbox S/N: CAG-90208

RGB S/N: N/A

Engine performance data corrected to sea level, static (unfly ram) standard day

Setting	CRC	CRB	CRA	NCR	TO	2.5 MIN
GP101				1240.0	1317.0	1371.0
SHP				597.7	677.5	732.1
Min Allow	334.0	418.0	501.0	557.0	650.0	700.0
% Var				7.3%	4.2%	4.6%
SFC	0.684	0.630	0.598	0.576	0.565	0.561
Max Allow	0.719	0.665	0.624	0.607	0.592	0.588
% Var	-4.8%	-5.2%	-4.1%	-5.1%	-4.5%	-4.7%

T/M Calibration at 700 HP = 99.4 PSIG

Seal Vent Office=

4

I hereby certify that the engine identified above has been tested in accordance with Rolls-Royce overhaul manual 14W3 ED2 REV15 01 APRIL 2009 for the specified workscope.



[Handwritten signature]

ATA Position Part Number Description Doc Ref# Doc Date A/F Time CC WC Interval TSN TS? Remaining Due \$

ATA	Position	Part Number	Description	Doc Ref#	Doc Date	A/F Time	CC	WC	Interval	TSN	TS?	Remaining	Due \$
720000	#1	250C305	ENGINE ASSEMBLY (C305)	CAE-890381	P/O 527105	9/09/11						9968:70 3968:70 18758 4558	9868:70 8023:20 4558
52030	#1	576A-INS-150	150 HR ENGINE INSPECTION	CAE-890381S	P/O 527105	9/09/11						150:00	150:00
52045	#1	576A-INS-300	300 HOUR ENGINE INSP.	CAE-890381S	P/O 527105	9/09/11						300:00	300:00
52070	#1	576A-INS-2000	2000 HOUR ENGINE INSP.	CAE-890381S	P/O 527105	9/09/11						2000:00	2000:00
53060	#1	RR250-SIH-0150	ENGINE VIBRATION CHECK	CAE-890381S	P/O 527105	9/09/11						150:00	150:00
723000	#1	23051663	COMPRESSOR ASSEMBLY	CAC-90451	P/O 527105	9/09/11						20053	20053
53000	#1	RR250-SIH-2000C	NI SHAPTING INSP. (COMP)	CAC-90451	P/O 527105	9/09/11						9313:40 4054:90	9313:40 4054:90
53000	#1	RR250-SIH-3000S	INSP.COMP.ROTOR/SPLINE AD	CAC-90451	P/O 527105	9/09/11						2000:00	2000:00
723020	#1	23076537	IMPELLER: COMPRESSOR	JY105818	P/O 527105	9/09/11						100	100
724012	#1	23066675	COMBUSTION LINER	SL13466A	P/O 527105	9/09/11						0	0
725000	#1	23035128	TURBINE ASSEMBLY	CRI-90157	P/O 527105	9/09/11						452:10	452:10
53000	#1	RR250-SIH-2000T	NI SHAPTING INSP. (TURB)	CRI-90157	P/O 527105	9/09/11						6000	6000
725011	#1	23073566	1ST STAGE NOZZLE SHIELD	SL13487A	P/O 527105	9/09/11						3407:70	3407:70
725014	#1	23053399	1ST STAGE WHEEL	X58874Z	P/O 527105	9/09/11						0	0
725022	#1	23032780	2ND STAGE WHEEL	X578907	P/O 527105	9/09/11						2025:00	2025:00
725070	#1	5898663	WHEEL: 3RD STAGE	X56574I	P/O 527105	9/09/11						3000	3000
725074	#1	23066744	4TH STAGE TURBINE WHEEL	X571209	P/O 527105	9/09/11						4550:00	4550:00
726010	#1	23035179	ENGINE GEARBOX (C306)	CAG-90208	P/O 527105	9/09/11						6:00	6:00
730010	#1	5996310	FUEL PUMP ASSY	TOLES	P/O 527105	9/09/11						0	0
730040	#1	2307360	FUEL NOZZLE (11-THREAD)	WANA12195	P/O 527105	9/09/11						1098:00	1098:00
730010	#1	23070624	FUEL CONTROL UNIT	329610	P/O 527105	9/09/11						182:00	182:00
53060	#1	RR250-SIH-2000F	F/O FILTER INSPECTION	329610	P/O 527105	9/09/11						2223:70	2223:70
732030	#1	23070106	F/O GOVERNOR	84050051	P/O 527105	9/09/11						2000:00	2000:00
733010	#1	23073353	BLEED VALVE	FF57116	P/O 527105	9/09/11						474:60	474:60

*** END OF REPORT ***

The following components were installed onto engine s/n CAF-890381 under Work Order L/W758708:

Compressor Assembly p/n 23051643 s/n CAC-90451
TTSN: 9313.4 hrs TSO: new
TCSN: 20,053 cycles CSO: new

Impeller Assembly 23076537 s/n JY105818
TTSN: 0.0 hrs T/R: 12,500 hrs
TCSN: 0 cycles C/R: 25,000 cycles

Gearbox Assembly p/n 23035179 s/n CAG-90208
TTSN: 14,293.2 hrs TSO: 4254.8 hrs

Turbine Assembly p/n 23035128 s/n CAT-90157
TTSN: 10,596.0 hrs TSO: 0.0 hrs
TCSN: 21,624 cycles CSO: 0 cycles

1st Stage Turbine Wheel p/n 23053299 s/n X588742
TTSN: 0.0 hrs T/R: 2025 hrs
TCSN: 0 cycles C/R: 3000 cycles

2nd Stage Turbine Wheel p/n 23032280 s/n X578907
TTSN: 0.0 hrs T/R: 2025 hrs
TCSN: 0 cycles C/R: 3000 cycles

3rd Stage Turbine Wheel p/n 6898663 s/n X565741
TTSN: 0.0 hrs T/R: 4550 hrs
TCSN: 0 cycles C/R: 6000 cycles

4th Stage Turbine Wheel p/n 23066744 s/n X571209
TTSN: 0.0 hrs T/R: 4550 hrs
TCSN: 0 cycles C/R: 6000 cycles

PT Governor p/n 23070106 s/n 84020051
TTSN: Unknown TSO: 474.6 hrs
T/R: 1525.4 hrs

Fuel Control p/n 23070613 s/n 329810
TTSN: Unknown TSO: 0.0 hrs
T/R: 2500.0 hrs

Fuel Pump p/n 6896810 s/n T0159
TTSN: Unknown TSO: 1098.0 hrs
T/R: 1902.0 hrs

Fuel Nozzle p/n 23077067 s/n VNIALP1493
TTSN: Unknown TSO: 182.0 hrs
T/R: 1818.0 hrs

SEE OVER

LW 758 708

Table 603

Inspection Checksheet

Date: SEP 04 2009 *SEP 11/09*

Owner: CANADIAN

A/C Make/Model: _____ S/N: _____ Reg No: _____ TSN: _____

Engine S/N: CAF-890381 TSN: 9968.7 TSO: 8023.2

This inspection checksheet is to be used when performing scheduled inspections. This form may be locally reproduced and/or expanded to reflect the aircraft operating environment. Keep the completed sheets as a permanent part of the aircraft engine records. Detailed information regarding each inspection item is contained in the referenced Operation and Maintenance Manual paragraphs.

CAUTION: BEFORE UNDERTAKING ANY INSPECTION OR MAINTENANCE ACTION, CONSULT THE REFERENCED PARAGRAPHS OF THE OPERATION AND MAINTENANCE MANUAL. FAILURE TO FOLLOW THE RECOMMENDED INSTRUCTIONS IN THE MANUAL COULD RESULT IN EQUIPMENT DAMAGE OR DESTRUCTION, POSSIBLY RESULTING IN PERSONNEL DEATH OR INJURY.

Item	Inspection/Maintenance Action	REFERENCE SECTION	Initial
	150 HOUR INSPECTION		
1	Inspect the engine for obvious loose bolts, broken or loose connections, security of mounting accessories, and broken or missing safeties. Check accessible areas for obvious damage and evidence of fuel and oil leakage.		<i>OK</i>
	Check B-nuts for presence and alignment of torque stripes. B-nuts with missing torque stripes must be loosened and retightened, before application of new torque stripes.	<i>lock torqued nuts after test.</i>	<i>OK</i>
2	Inspect the compressor impeller leading edges for damage.	72-30-00, para 4.B.	<i>OK</i>
3	Clean the compressor, as required, with a chemical wash solution if dirt buildup is evident.	72-30-00, para 5.B.	<i>OK</i>
4	Without disassembly, inspect the turbine and exhaust collector supports for condition of welded joints, cracks and buckling.	72-50-00, para 6.L. and para 8.B.	<i>OK</i>
5	Using a small mirror and a flashlight, inspect flow divider inside turbine and exhaust collector support for cracks or separated tack welds. If cracking of sheet metal or welds is found but limits are not exceeded, inspect every 25 hours until support is repaired, flow divider is removed, or limits are exceeded. Compliance with 250 CEB 72-3040 eliminates this inspection requirement.	72-50-00, para 6.L. and para 8.B.	<i>NK</i>

Table 603 (cont)

Item	Inspection/Maintenance Action	REFERENCE SECTION	Initial
	150 HOUR INSPECTION (cont)		
6	Inspect the engine fuel system for evidence of leakage. Check condition and security of fittings and tubing. Check fuel control lever for freedom of operation and full travel. Check condition and security of all linkages.	73-00-00, para 2.A.	✓ or
7	Inspect the engine mounts for condition and security.		N/A or
8	Perform a detailed visual inspection of the outer combustion case. Using a bright light (flashlight or equivalent), inspect all weld areas for cracks. Outer combustion cases without brazed reinforcement wire patches, comply with inspection requirements of 250 CEB-A-72-3115.	72-40-00, para 2.B.(1)	✓ or
9	Inspect electrical harness for loose, chafed, frayed, or broken wires and loose connectors.		✓ or
10	For aircraft with external energy absorbing ring installed, inspect ring upper bracket for cracks. Reference 250 CEB-A-72-3124, Revision No. 2		N/A or
<p>CAUTION: NORMAL ENGINES USE A MINIMAL AMOUNT OF OIL. HOWEVER, ANY SUDDEN INCREASE IN OIL CONSUMPTION IS INDICATIVE OF OIL SYSTEM PROBLEMS AND MUST BE CORRECTED.</p>			
11	Check oil supply level. If the engine has been idle for more than 15 minutes, motor the engine for 30 seconds to scavenge any oil that may have drained into the gearbox from the oil tank. Failure to completely scavenge the oil from the gearbox will cause a false indication of high oil consumption. See Post Flight Check No. 3.	72-00-00, Table 101 Trouble-shooting, items 17 and 18.	N/A or
<p>NOTE: Check oil supply level within 15 minutes of engine shutdown.</p>			
12	Inspect for extension of impending oil filter bypass indicator. If indicator is extended, clean oil filter. It is possible for the impending oil filter bypass indicator to extend during a start of a cold soaked engine, giving an erroneous indication of a dirty oil filter. If the impending filter bypass indicator is extended, run the engine until the oil is at operating temperature and push the indicator button in. If the button remains in throughout the normal speed range of the engine, the filter does not require cleaning.	72-60-00, PARA 1.C.	✓ or

72-00-00

72-00-00

Item	Inspection/Maintenance Action	REFERENCE SECTION	Initial
	150 HOUR INSPECTION (cont)		
	<p>CAUTION: WHEN THERE IS EVIDENCE THAT THE AIRFRAME OR ENGINE FUEL FILTER HAS BEEN BYPASSED, THE GAS PRODUCER FUEL CONTROL INLET FILTER, THE FUEL NOZZLE FILTER, MUST BE CLEANED. (REFER TO SPECIAL INSTRUCTIONS, 72-00-00, TABLE 607) IF ANY CONTAMINATION IS FOUND IN THE FUEL NOZZLE FILTER, THIS WILL REQUIRE THAT THE FUEL CONTROL BE SENT TO AN AUTHORIZED REPAIR FACILITY FOR INTERNAL CLEANING. REFERENCE MUST ALSO BE MADE TO THE AIRFRAME MAINTENANCE MANUAL FOR FUEL SYSTEM MAINTENANCE FOLLOWING FUEL CONTAMINATION.</p>		
13	Inspect for extension of impending fuel filter bypass indicator. If indicator is extended, replace fuel filter.	73-10-05, PARA 2.	✓
	Inspect fuel filter in the fuel control and the filter in the fuel nozzle. Ground run engine to assure proper operation of control system.	73-20-02, PARA 5.A.	✓
13.A	Clean and inspect the fuel nozzle. If no airframe mounted fuel filter is installed, inspect the fuel nozzle filter. Install fuel nozzle with proper number of spacers.	73-10-03	✓
14	Record component changes, inspections, and compliance with technical instructions as required. Report engine difficulties to Rolls-Royce and/or Authorized Maintenance Center (AMC) on model 250 report, Form 8117-1 (Rev. 5-94) as required.		✓ SAL 661 Q1
15	Without disassembly, check the compressor discharge air tubes. Inspect for air leaks, dents, cracks, chafing, and proper clamping.	72-40-00, Table 203.	✓
16	Inspect compressor scroll for cracks. Pay particular attention to welded areas.		✓
17	Clean the burner drain valve. Ensure that the airframe overboard is clear. Refer to aircraft manual for maintenance procedures.	72-40-00, PARA 3.	✓
18	Inspect the anti-icing, bleed air, and overspeed solenoid valves for loose, chafed, frayed or broken wires, loose connections and security of attachment.		✓
19	Inspect the horizontal and vertical firewall shields for Continued sheet metal or tube cracking may be an indication of excessive engine, engine accessory, or airframe vibration.	72-50-00, PARA 6.K.	✓

EXPORT CONTROLLED
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250-C30 SERIES OPERATION AND MAINTENANCE
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TABLE 603 (cont)

EXPORT CONTROLLED
Rolls-Royce
250-C30 SERIES OPERATION AND MAINTENANCE

TABLE 603 (cont)

Item	Inspection/Maintenance Action	REFERENCE SECTION	Initial
	150 HOUR INSPECTION (cont)		
20	Check fuel control and power turbine governor for proper rigging.	73-20-01, PARA 2.C, and 73-20-02, PARA 2.C.	N/A
21	On power and accessory gearbox cover, check the applied torque on all turbine and exhaust collector support-to-gearbox retaining nuts. Torque must be 120-150 lb in. (14-17 Nm). Compliance with 250 CEB-72-3017 cancels this periodic inspection requirement.	72-50-00, PARA 1.B.	✓
22	Remove, clean, operationally test, and reinstall the magnetic drain plugs: a. Standard type - examine the chip detector end of the plugs for cracks. b. Quick disconnect - examine the locking pins and flanged inserts for wear. Torque 60-80 lb in. (6.8-9.0 Nm). No cracks are permitted. Examine each chip detector separately.	72-00-00, PARA 8.E.	✓
23	Inspect ignition lead for burning, chaffing or cracking of conduct. Also, check for loose connectors and/or broken lockwire. Perform operational check of ignitors.	74-20-02, PARA 2. 74-20-01, PARA 2.B.	✓
24	Remove, inspect, clean and reinstall the oil filter.	72-60-00, PARA 1.C.	✓
25	Measure and record power turbine support pressure oil nozzle flow from scavenge oil strut. Record and retain flow record. Compare with previous flow. Any large deviation could indicate carbon buildup. While motoring N ₁ to 16-18% the minimum flow is 90cc in 15 seconds.	72-50-00, PARA 6.E.	N/A

Item	Inspection/Maintenance Action	REFERENCE SECTION	Initial
TABLE 603 (cont)			
	150 HOUR INSPECTION (cont)		
26	Drain the oil system and refill. Oil changed at: 150 hours: 300 hours: 600 hours: 150 hours or 6 months max. time limit.	72-00-00, PARA 8.D, Servicing, Engine-	N/A
	NOTE: With an STC approved external scavenge filter, the oil change interval is 300 hours or 6 months. NOTE: With an STC approved external scavenge oil filter, and using approved high thermal stability (HTS) oil, the oil change interval is 600 hours or 12 months. NOTE: Refer to 250 CSL-3126, Recommended Sequence, Engine Oil Change for additional instructions.		
27	Service oil filter. If excessive carbon is found in the filter, inspect the scavenge and pressure oil system. Refer to 72-50-00 PARA 6.E, 6.F, 6.G, 6.H, 7.A, and 7.B.	72-60-00, PARA 1.C	N/A
28	Inspect P ₀ filter for proper clamping and security	73-20-03	
29	Without disassembly or removal of the P ₀ filter assembly from the mounting bracket, inspect using a 10X magnification and a bright light to detect any signs of cracks, paying particular attention to both of the end fittings at their junction with the end walls. If cracks are detected, remove assembly and comply with 250 CEB-A-75-3017.		
TABLE 604			
	Inspection/Maintenance Action	REFERENCE SECTION	Initial
	300 HOUR INSPECTION		
	In addition to the 150 hour inspection items, perform the following:		
1	Inspect compressor mount for cracks.	72-00-00, PARA 1.A (3), Engine-Inspection/Check.3	
2	Clean power turbine support scavenge oil strut.	72-50-00, PARA 6.G	
3	Clean external sump.	72-50-00, PARA 6.G	

Item	Inspection/Maintenance Action	REFERENCE SECTION	Initial
	300 HOUR INSPECTION (cont)		
4	Clean No. 1 bearing oil pressure reducer.	72-30-00, PARA 2.A (1)	✓
5	Clean pressure oil fitting screen assembly.	72-50-00, PARA 6.G	✓
	CAUTION EXTREME CARE SHOULD BE EXERCISED TO PREVENT TWISTING OF OIL NOZZLE DURING REMOVAL. DO NOT ATTEMPT TO STRAIGHTEN OR REUSE IF TWISTED.		
6	Clean power turbine pressure oil nozzle.	72-50-00, PARA 6.G	✓
7	Deleted		
8	Remove, inspect, and reinstall the turbine pressure oil check valve.	72-60-00, PARA 2.K	✓
	NOTE: Check Valve P/N 23074872 and subsequent part numbers are not applicable to this inspection (these valves are considered "ON CONDITION").		
9	Inspect the fourth-stage turbine wheel-to-exhaust collector inner cone clearance.	72-00-00, PARA 1.A (4), Engine-Inspection/Check.	W/E
	NOTE: Compliance with 250 CEB 72-3044 eliminates this inspection requirement.		
10	Inspect the rear engine mount for security and excessive bearing wear.	72-00-00, PARA 1.A (5), Engine-Inspection/Check.	✓
11	Remove, clean, inspect and reinstall the P _c filter. If engine performance deteriorates, P _c filter cleaning interval may have to be reduced.	73-20-03, PARA 2. and 3.	✓
	WARNING: PROPER TIGHTENING OF ENGINE TUBING CONNECTIONS IS CRITICAL TO FLIGHT SAFETY. CORRECT TORQUE VALUES MUST BE USED AT ALL TIMES. EXCESSIVE TORQUE ON PNEUMATIC SENSING SYSTEM CONNECTIONS RESULTS IN CRACKING OF THE FLARE CAUSING AN AIR LEAK WHICH CAN CAUSE FLAMEOUT, POWER LOSS OR OVERSPEED.		
12	Inspect N ₁ shafting.	72-50-00, PARA 6.A	✓
	NOTE: Compliance with 250 CEB 72-3059, 72-3096, 72-3100, A-72-3134 (twin engine applications), and A-72-3135 (single engine applications) eliminates this inspection requirement.		
13	On power and accessory gearbox cover, check the support-to-gearbox retaining nuts. Torque must be 120-150 lb in. (14-17 N-m).	72-50-00, para 1.B.	✓

TABLE 604 (cont)

LWT 58708 CAE-890381 SEP 04 2009

TABLE 604 (cont)			
Item	Inspection/Maintenance Action	REFERENCE SECTION	Initial
	300 HOUR INSPECTION (cont)		
14	Inspect the thermocouple assembly (TOT/MGT).	77-20-01 PARA 2.B.	<input checked="" type="checkbox"/>
TABLE 605			
Item	Inspection/Maintenance Action	REFERENCE SECTION	Initial
	600 HOUR INSPECTION		
	The following inspection is required every 600 hours time since last inspection.		
1	Perform scavenge oil filter impeding bypass function check per Facet Service Bulletin No. 090589 (ref. Rolls-Royce CSL 3116) for all aircraft equipped with an external scavenge filter system.		<i>W/K</i>
TABLE 606			
Item	Inspection/Maintenance Action	REFERENCE SECTION	Initial
	2000 HOUR INSPECTION		
	The following inspection is required every 2000 hours time since last inspection.		
1	Fuel control filter inspection.	73-20-02 PARA 5.A.	<input checked="" type="checkbox"/>
2	Fuel nozzle filter inspection	73-10-03 PARA 2.A.	<input checked="" type="checkbox"/>
3	Remove and replace the low pressure fuel filter element. Before discarding filter, inspect for signs of contaminants. If any are found, inspect the entire fuel system and clean if necessary.	73-10-05 PARA 2.	<input checked="" type="checkbox"/>
4	Inspect the combustion liner.	72-40-00 PARA 1.C.	<input checked="" type="checkbox"/>
	<i>New Liner Installed</i>		
5	Inspect the outer combustion case for cracks using Leak-Tek and/or dye penetrant.	72-40-00 PARA 2.B.(2) (3), and (4)	<input checked="" type="checkbox"/>
6	Inspect the compressor discharge air tubes.	72-40-00 PARA 4.C.	<input checked="" type="checkbox"/>
7	Inspect the N ₂ overspeed mounting dampers.	73-21-00 PARA 7.B.	<i>W/K</i>
8	Inspect the spur adapter gearshaft, compressor rotor splined adapter and associated impeller bore.	72-30-00 PARA 4.B.(2) 4.C. and 4.E.	<input checked="" type="checkbox"/>

72-00-00

TABLE 606 (cont)

Item	Inspection/Maintenance Action	REFERENCE SECTION	Initial
	2000 HOUR INSPECTION (cont)		
9	Inspect the turbine to compressor coupling, turbine splined adapter, power turbine inner shaft and turbine shaft-to-pinion gear coupling. Turbine to compressor coupling is part of the turbine assembly	72-50-00, PARA 6.A and 6.B.	✓ [Signature]
<p>NOTES: The following inspections are recommended whenever the turbine or compressor is removed in-between the required 2000 hour inspection.</p> <p>Anytime the compressor is removed from the engine, visually inspect the aft end of the spur adapter gearshaft for worn or damaged splines.</p> <p>Anytime the turbine is removed from the engine visually inspect the splines on the following items, turbine-to-compressor coupling, turbine splined adapter, power turbine outer shaft and turbine shaft-to-pinion gear coupling for worn or damaged splines.</p> <p>If spline wear or damage is observed the appropriate maintenance action is required. (Refer to item 6 and 7 above).</p> <p>Inspection intervals shall not exceed 2000 hours.</p>			

72-00-00

Date: January 25th 2005

Mandatory
Canadian Helicopters Limited
Mandatory Maintenance Advisory

Subject Document: Memo CHL-412

Installation Of Fixed Vibration Analysis Brackets On The C30S Engines

Engine Model: RR250-C30S Engines

Engine Serial Number: [Redacted]

Compliance Is Required: Prior to being returned to CHL

Continued from the previous page.

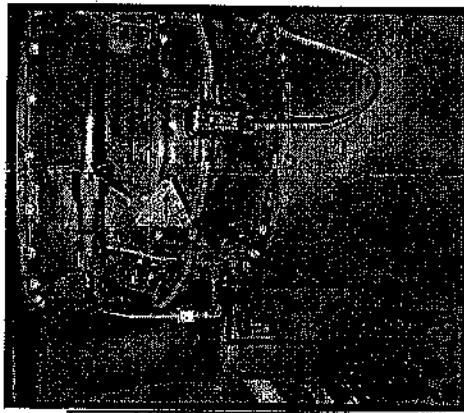
Using 1 T-Bolt P/N: MS9432-07 and 1 Nut P/N: MS21043-3 install the turbine mounted bracket as shown in picture #2 (below).

NOTE 1: The P/N of the bracket will depend on which part is supplied with this MMA. (Any of the following P/N's are acceptable: 23032993, 8422 or 054167-01)

NOTE 2: The bracket must be installed vertically on the aft side of the gas producer-to-power turbine support split line at the 12 o'clock position.

One Apex of the bracket must face the R/H side of the engine (as shown in picture 2, below).

NOTE 3: The bracket must remain with the engine when future engine changes occur. Replacement engines will come to the A/C with the bracket installed.



Picture 2: Turbine bracket (top view)

Upon completion of the above maintenance enter the following statement on the engine log card: "Memo CHL-412; Installation of fixed vibration analysis brackets on the C30S engines; carried out on engine S/N:CAE-890381" Please initial here to confirm compliance: AL



Carried out on SAL Work Order: LV592609

Routing: 1. A/C Copy: Attach to Journey Log YELLOW page AFTER the requirements of this document have been met and log entries made. Effective: 02 February 2005
Office Use Only
ATA Code: 181072
C FE NA NP NS NM PC

Installation Of Fixed Vibration Analysis Brackets On The C30S Engines

RR250-C30S Engines

Engine Model:

CAI 890381

Engine Serial Number:

Prior to being returned to CHL

Compliance Is Required:

CHL has determined that a 150-hour engine vibration analysis will be carried out on the Rolls-Royce 250-C30S engines installed on the S76A A/C. To facilitate the inspection an accelerometer bracket will be permanently mounted on the compressor and the turbine sections of each engine.

Memo CHL-412 has been issued to provide instructions for the installation of the brackets. The engine vibration check, RR250-SIH-0150, will be added to the S76A SIR section of the AIP and scheduled in the AS400 following the completion of Memo CHL-412.

Reference: Rolls-Royce 250-C30 Series Operation And Maintenance Manual; 72-00-00, pages 504 through 524.

Instructions for compliance:

For each installed engine carry out the following:

NOTE: If any problems are encountered with the following procedures contact the Regional Assistant Chief Engineer to resolve the issues.

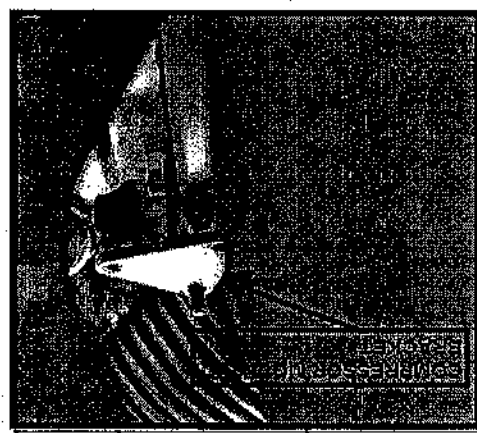
Using 1 Allen head screw P/N: 6849469-0809 install the bracket for the compressor as shown in picture #1 (below).

CAUTION: Use extra care installing the Allen head screw. Due to the location of on the A/C the screw can be easily misaligned and cross-threaded.

NOTE 1: The P/N of the bracket will depend on which part is supplied with this MMA. (Any of the following P/N's are acceptable: 23034204, 11758, or 054167-02)

NOTE 2: The bracket must be installed vertically on the front side of the compressor-to-inlet housing split line at the 12 o'clock position.

NOTE 3: The bracket must remain with the Engine when future engine changes occur. The alignment stud must face the L/H side of the engine (as shown in picture 1, below). Replacement engines will come to the A/C with the bracket installed.



Picture 1: Compressor Bracket (side view)

10 FEB. 2005

2005 v. 2004

1. Approving national aviation authority/country **2.**
Transport Canada

3. Form tracking No.
ARC 72937

AUTHORIZED RELEASE CERTIFICATE
TCCA 24-0078

4. Approved organization name and address
Standard Aero Limited, 33 Allen Dyne Road, Winnipeg, MB R3H 1A1 Canada
AMO Approval No. 22-58

5. Work order/contract/invoice
LW517031
Reference P/O 516422

6. Item	7. Description	8. Part No.	9. Eligibility*	10. Qty.	11. Serial/batch No.	12. Status/work
1	Engine Assembly	23005290	N/A	1	CAE 890381	Repaired

13. Remarks
 Engine has been repaired (Compressor 2000 hour and 3500 hour inspection complied with, Gearbox repaired for metal and 3500 hour inspection, Turbine replaced) and tested in accordance with Rolls-Royce Model 250-C30 Overhaul Manual 14W3 2nd Ed., 10th Rev., dated March 15, 2004, and the current maintenance rules of the Canadian Aviation Regulations. 150, 300 and 2000 hour inspections have been complied with (engine only), as indicated in the supplied check list. In accordance with 14W2 6th Ed., 10th Rev., dated November 15, 2003. The following major parts were replaced: Combustion Liner, Outer Combustion Case, Bleed Valve, Fuel Nozzle, Rear Engine Mount, Turbine. The engine is approved for return to service in compliance with CAR 571, FAR Part 43.17 and JAR 145 (Reference JAA Acceptance Certificate No. JAA.7059). All mandatory modifications and Airworthiness Directives were complied with. All pertinent details of the work performed are on file at this organization under Work Order No. LW517031.
 T.T.S.N. 6729.7 Hours T.T.S.O. 4784.2 Hours T.C.S.N. 11270 Cycles T.C.S.O. Unk Cycles.

The engine comprises of the following main components:

Module	Part Number	Serial Number	TSN	TSO	CSN	CSO
Compressor	23051643	CAC 90648	6020.8	N/P	10717	N/P
Gearbox	23035179	CAG 90797	14536.9	11164.6	N/A	N/A
Turbine	23035128	CAT 98288	3969.7	0.0	4237	0

14. Certifies that the items identified above were manufactured in conformity to:
 Approved design data and are in condition for safe operation.
 Non approved design data specified in block 13.

19. Certifies that, except where otherwise specified in block 13, the work identified in block 12 and described in block 13 was performed in accordance with CAR 571.
 CAR 571.10 Maintenance release.
 Other regulations specified in block 13.

15. Authorized signature N/A	16. Certificate/Approval ref. No. N/A	20. Authorized signature <i>D. Zorniak</i>	21. Certificate/Approval ref. No. AMO 22-58 JAA.7059
17. Name N/A	18. Date (dd/mm/yy) N/A	22. Name Duane Zorniak	23. Date (dd/mm/yyyy) June 9, 2004

1. This document does not constitute authority to install part.
 2. Where the installer works in accordance with the national regulations of an airworthiness authority other than the authority specified in block 1, the installer must ensure that his/her airworthiness authority accepts products or maintenance from the airworthiness authority specified in block 1.
 3. Statements 14 and 19 do not constitute installation certification. In all cases the aircraft technical record must contain an installation certification, issued in accordance with the national regulations of the state of registry, before the aircraft may be flown.

ENGINE TEST RESULTS**Model 250-C30SE****Customer:** CANADIAN HELICOPTERS LIMITED ***Date:** 05-JUN-2004**TCN:** LW517031**S/O:** 9PX24**Engine S/N:** CAE890381S**Comp S/N:** CAC90648**Turbine S/N:** CAT98288 (SLAVE)**Gearbox S/N:** CAG90797**RGB S/N:** N/A

Engine performance data corrected to sea level, static (unity ram) standard day

Setting	CRC	CRB	CRA	NCR	MC	2.5 Min
GPTOT				1240.0	1317.0	1371.0
SHP				595.5	679.2	736.4
Min Allow	334.0	418.0	501.0	557.0	650.0	700.0
% Var				+6.91 %	+4.49 %	+5.2 %
SFC	0.705	0.648	0.613	0.589	0.576	0.570
Max Allow	0.719	0.665	0.624	0.607	0.592	0.588
% Var	-1.95 %	-2.56 %	-1.76 %	-2.97 %	-2.70 %	-3.06 %

F/M Calibration at 700-HP = 99.58 PSIG

Seal Vent Orifice Size = -4

I hereby certify that the engine identified above has been tested in accordance with Rolls-Royce overhaul manual 14W3 ED2 REV 10 15 MAR 04 for the specified workscope.





Standard Aero Ltd.

ENGINE TEST CERTIFICATE

Model 250-C30SE

Customer: CANADIAN HELICOPTERS LIMITED *
Date: 06-APR-2003
TCN: LW443260

Engine S/N: CAE890381
Comp S/N: CAC90648
Turbine S/N: CAT90063
Gearbox S/N: CAG90797
RGB S/N: N/A

Engine performance data corrected to sea level, static (unity ram) standard day

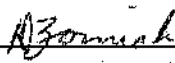

Setting	CRC	CRB	CRA	NCR	MC	2.5 Min
GPTOT				1240.0	1317.0	1371.0
SHP				583.4	664.5	718.0
Min Allow	334.0	418.0	501.0	557.0	650.0	700.0
% Var				+4.74 %	+2.23 %	+2.57 %
SFC	0.702	0.640	0.604	0.582	0.568	0.563
Max Allow	0.719	0.665	0.624	0.607	0.592	0.588
% Var	-2.36 %	-3.76 %	-3.21 %	-4.12 %	-4.05 %	-4.25 %

T/M Calibration at 700 HP = 98.61 PSIG

Seal Vent Orifice Size = -4

I hereby certify that the engine identified above has been tested and meets manufacturer's specifications described in Rolls-Royce overhaul manual.

14W3 ED2 REV 8 01 NOV 01

Standard Aero Ltd.

ENGINE TEST CERTIFICATE**Model 250-C30SE****Customer:** CANADIAN HELICOPTERS *****Date:** 15-JAN-2002**TCN:** LW357242**Engine S/N:** CAE890381
Comp S/N: CAC90648
Turbine S/N: CAT90340
Gearbox S/N: CAG90453
RGB S/N: N/A

Engine performance data corrected to sea level, static (unity ram) standard day

Setting	CRC	CRB	CRA	NCR	MC	2.5 Min
GPTOT				1240.0	1317.0	1371.0
SHP				604.8	677.6	725.3
Min Allow	334.0	418.0	501.0	557.0	650.0	700.0
% Var				+8.58 %	+4.25 %	+3.61 %
SFC	0.694	0.636	0.602	0.578	0.569	0.565
Max Allow	0.719	0.665	0.624	0.607	0.592	0.588
% Var	-3.48 %	-4.36 %	-3.53 %	-4.78 %	-3.89 %	-3.91 %

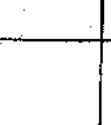
T/M Calibration at 700 HP = 99.22 PSIG

Seal Vent Orifice Size = -4

I hereby certify that the engine identified above has been tested and meets manufacturer's specifications described in Rolls-Royce overhaul manual :

14W3 ED2 REV 8 01 NOV 01

Standard Aero Limited*For Reference
only
N3*

1. Approving national aviation authority/country Transport Canada		2. AUTHORIZED RELEASE CERTIFICATE TCCA 24-0078		3. Form Tracking No. ARCLW224416	
4. Approved organization name and address STANDARD AERO, 33 ALLEN DYNE RD., WINNIPEG, MANITOBA, CANADA, R3H 1A1 AMO Approval No. 22-58		5. Work Order/Contract/Invoice LW698024		12. Status/Work Repaired	
6. Item 01	7. Description ENGINE ASSEMBLY	8. Part No. 23005290	9. Eligibility* N/A	10. Qty. 1	11. Serial/batch No. CAE-890381
13. Remarks TSN: 9303.6 TSO: 7358.1 CSN: 17173 Amended 11 September, 2008 : for modified serial number. The product identified complete with (2) vibration brackets (less FCU to Fireshield Tube Assy, Fuel Hose Assy, N2 Overspeed Control, and Starter Counter) has been repaired for low power and cycled out Turbine (OCC and Discharge Tubes were pressure tested and NDT inspected) (Compressor Assy s/n CAC-90648, Gearbox Assy s/n CAG-90208 and Turbine Assy s/n CAT-95498 were installed) and tested (150 hr vibration test completed using ACES equipment) in accordance with Rolls Royce 250-C30 Overhaul Manual 14W3 2nd Ed. 14th Rev. Dated 01/04/08 and the current maintenance rules of the Canadian Aviation Regulations. 150, 300 & 2000 hr inspections have been complied with (engine only) as indicated in the supplied checklist in Maintenance Manual 14W2 6th Ed. 14th Rev. Dated 15/11/07. The following major parts were replaced: (2) Tube Assy, Fuel Control, Combustion Liner, Lube Oil Check Valve, Gearbox Assy and Turbine Assy. The product is released serviceable for return to service in compliance with CAR 571, FAR Part 43.17 and EASA Part-145 (reference EASA Approval Certificate EASA.145.7059). All pertinent details of the work performed are on file at this organization under Work Order LW698024 / P.O.: 524712. TSN: 9303.6 hrs TSO: 7358.1 hrs CSN: 17173 cycles CSO: unk The Engine comprises of the following: Module P/N S/N TSN TSO CSN CSO Compressor 23051643 CAC-90648 8594.7 new 16620 new Gearbox 23035179 CAG-90208 13628.1 n/a n/a Turbine 23035128 CAT-95498 11890.5 0.0 21871 0					
14. Certifies that the items identified above were manufactured in conformity to: <input type="checkbox"/> Approved design data and are in condition for safe operation. <input type="checkbox"/> Non-approved design data specified in block 13.					
15. Authorized signature N/A		16. Certificate/Approval ref. No. N/A		19. Certifies that, except where otherwise specified in block 13, the work identified in block 12 and described in block 13 was performed in accordance with CAR 571. <input checked="" type="checkbox"/> CAR 571.10 Maintenance release. <input checked="" type="checkbox"/> Other regulations specified in block 13.	
17. Name N/A		18. Date (dd/mm/yyyy) N/A		20. Authorized signature  21. Certificate/Approval ref. No. AMO Approval No. 22-58	
				22. Name ROGER CERVANTES	
				23. Date (dd/mm/yyyy) 22-Aug-2008	

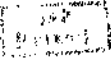

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3. Statements 14 and 19 do not constitute installation certification. In all cases the aircraft technical record must contain an installation certification, issued in accordance with the national regulations of the state of registry, before the aircraft may be flown.
12/09/2001

LW698024

TABLE 603

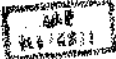
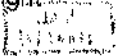
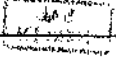
CAE8903815

AUG 22 2008

INITIAL	150 HOUR INSPECTION	REFERENCE SECTION	REMARKS
SAL 1000 DI	1. Inspect the engine for obvious loose bolts, broken or loose connections, security of mounting accessories, and broken or missing safeties. Check accessible areas for obvious damage and evidence of fuel and oil leakage. Check B-nuts for presence and alignment of torque stripes. B-nuts with missing torque stripes must be loosened and retightened, before application of new torque stripes.		
SAL 1000 DI	2. Inspect the compressor impeller leading edges for damage.	72-30-00, para 4.B.	
SAL 1000 DI	3. Clean the compressor, as required, with a chemical wash solution if dirt buildup is evident.	72-30-00, para 5.B.	
SAL 1000 DI	4. Without disassembly, inspect the turbine and exhaust collector supports for condition of welded joints, cracks and buckling.	72-50-00, para 6.L. and para 8.B.	
SAL 1000 DI	5. Using a small mirror and a flashlight, inspect flow divider inside turbine and exhaust collector support for cracks or separated tack welds. If cracking of sheet metal or welds is found but limits are not exceeded, inspect every 25 hours until support is repaired, flow divider is removed, or limits are exceeded.	72-50-00, para 6.L. and para 8.B.	Compliance with 250 CEB 72-3040 eliminates this inspection requirement.
SAL 1000 DI	6. Inspect the engine fuel system for evidence of leakage. Check condition and security of fittings and tubing. Check fuel control lever for freedom of operation and full travel. Check condition and security of all linkages.	73-00-00, para 2.A.	
SAL 1000 DI	7. Inspect the engine mounts for condition and security. (REAR) 		
SAL 1000 DI	8. Perform a detailed visual inspection of the outer combustion case. Using a bright light (flashlight or equivalent), inspect all weld areas for cracks.	72-40-00, para 2.B.(1)	Outer combustion cases without brazed reinforcement wire patches, comply with inspection requirements of 250 CEB-A-72-3115.

72-00-00

TABLE 603 (cont)

INITIAL	150 HOUR INSPECTION	REFERENCE SECTION	REMARKS
SAL 1000 D	Inspect electrical harness for loose, chafed, frayed, or broken wires and loose connectors.		
N/A	10. For aircraft with external energy absorbing ring installed, inspect ring upper bracket for cracks.		Reference 250 CEB-A-72-3124, Revision No. 2
	CAUTION: NORMAL ENGINES USE A MINIMAL AMOUNT OF OIL. HOWEVER, ANY SUDDEN INCREASE IN OIL CONSUMPTION IS INDICATIVE OF OIL SYSTEM PROBLEMS AND MUST BE CORRECTED.		
N/A	11. Check oil supply level. NOTE: Check oil supply level within 15 minutes of engine shutdown.	72-00-00, Table 101 Troubleshooting, items 17 and 18.	If the engine has been idle for more than 15 minutes, motor the engine for 30 seconds to scavenge any oil that may have drained into the gearbox from the oil tank. Failure to completely scavenge the oil from the gearbox will cause a false indication of high oil consumption. See Post Flight Check No. 3 
SAL 1000 D	2. Inspect for extension of impending oil filter bypass indicator. If indicator is extended, clean oil filter.	72-60-00, PARA 1.C.	It is possible for the impending oil filter bypass indicator to extend during a start of a cold soaked engine, giving an erroneous indication of a dirty oil filter. If the impending filter bypass indicator is extended, run the engine until the oil is at operating temperature and push the indicator button in. If the button remains in throughout the normal speed range of the engine, the filter does not require cleaning. 

LW698024

TABLE 603 (cont)

CAE 890381S

AUG 22 2000

INITIAL	150 HOUR INSPECTION	REFERENCE SECTION	REMARKS
<p>CAUTION: WHEN THERE IS EVIDENCE THAT THE AIRFRAME OR ENGINE FUEL FILTER HAS BEEN BYPASSED, THE GAS PRODUCER FUEL CONTROL INLET FILTER, THE FUEL NOZZLE FILTER, MUST BE CLEANED. (REFER TO SPECIAL INSPECTIONS, 72-00-00, TABLE 607) IF ANY CONTAMINATION IS FOUND IN THE FUEL NOZZLE FILTER, THIS WILL REQUIRE THAT THE FUEL CONTROL BE SENT TO AN AUTHORIZED REPAIR FACILITY FOR INTERNAL CLEANING. REFERENCE MUST ALSO BE MADE TO THE AIRFRAME MAINTENANCE MANUAL FOR FUEL SYSTEM MAINTENANCE FOLLOWING FUEL CONTAMINATION.</p>			
SAL 1000 DI	13. Inspect for extension of impending fuel filter bypass indicator.	73-10-05, PARA 2. 73-20-02, PARA 5.A.	If indicator is extended, replace fuel filter. Inspect fuel filter in the fuel control and the filter in the fuel nozzle. Ground run engine to assure proper operation of control system.
SAL 1000 DI	13.A. Clean and inspect the fuel nozzle. If no airframe mounted fuel filter is installed, inspect the fuel nozzle filter.	73-10-03	Install fuel nozzle with proper number of spacers.
SAL 1000 DI SAL 1175 QI	4. Record component changes, inspections, and compliance with technical instructions as required. Report engine difficulties to Rolls-Royce and/or Authorized Maintenance Center (AMC) on Model 250 report, Form 8117-1 (Rev. 5-94) as required.		
SAL 1000 DI	15. Without disassembly, check the compressor discharge air tubes. Inspect for air leaks, dents, cracks, chafing, and proper clamping.	72-40-00, Table 203.	
SAL 1000 DI	16. Inspect compressor scroll for cracks. Pay particular attention to welded areas.		
SAL 1000 DI	17. Clean the burner drain valve.	72-40-00, PARA 3.	Ensure that the airframe overboard is clear. Refer to aircraft manual for maintenance procedures.
SAL 1000 DI	18. Inspect the anti-icing, bleed air, and overspeed solenoid valves for loose, chafed, frayed or broken wires, loose connections and security of attachment.		

72-00-00

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Nov 15/04

TABLE 603 (cont)

INITIAL	150 HOUR INSPECTION	REFERENCE SECTION	REMARKS
SAL 1000 DI	19. Inspect the horizontal and vertical firewall shields for cracks.	72-50-00, PARA 6.K.	Continued sheet metal or tube cracking may be an indication of excessive engine, engine accessory, or airframe vibration.
N/A	20. Check fuel control and power turbine governor for proper rigging.	73-20-01, PARA 2.C. and 73-20-02, PARA 2.C.	
SAL 1000 DI	21. On power and accessory gearbox cover, check the applied torque on all turbine and exhaust collector support-to-gearbox retaining nuts.	72-50-00, PARA 1.B.	Torque must be 120-150 lb in. (14-17 N·m). Compliance with 250 CEB-72-3017 cancels this periodic inspection requirement.
SAL 1000 DI	22. Remove, clean, operationally test, and reinstall the magnetic drain plugs: a. Standard type - check the chip detector end of the plugs for cracks.	72-60-00, PARA 4.B.	Torque 60-80 lb in. (6.8-9.0 N·m). No cracks are acceptable. Check each chip detector separately.
SAL 1000 DI	Quick disconnect - inspect the locking pins and flanged inserts for wear.		
SAL 1000 DI	23. Inspect ignition lead for burning, chafing or cracking of conduit. Also, check for loose connectors and/or broken lockwire.	74-20-02, PARA 2.	
	Perform operational check of ignitors.	74-20-01, PARA 2.B.	
SAL 1000 DI	24. Remove, inspect, clean and reinstall the oil filter.	72-60-00, PARA 1.C.	
N/A	25. Measure and record power turbine support pressure oil nozzle flow from scavenge oil strut. Record and retain flow record.	72-50-00, PARA 6.E.	While motoring N ₁ to 16-18% the minimum flow is 90 cc/hr 15 seconds.
	Flow _____		
	Compare with previous flow. Any large deviation could indicate carbon buildup.		

72-00-00

EXPORT CONTROLLED

Rolls-Royce

250-C30 SERIES OPERATION AND MAINTENANCE

TECHNICAL ASPECTS ARE FAA APPROVED

TEMPORARY REVISION E6R14-72-3

LW698024

TABLE 603 (cont)

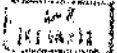
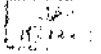
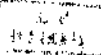
CAE 8903813

AUG 22 2008

INITIAL	150 HOUR INSPECTION	REFERENCE SECTION	REMARKS
N/A	26. Drain the oil system and refill. Oil changed at: 150 hours: _____ 300 hours: _____ 600 hours: _____	72-00-00, PARA 8.D., Engine-Servicing.	150 hours or 6 months max. time limit. NOTE: With an STC approved external scavenge filter, the oil change interval is 300 hours or 6 months. NOTE: With an STC approved external scavenge oil filter, and using approved high thermal stability (HTS) oil, the oil change interval is 600 hours or 12 months.
SAL 1000 DI	27. Service oil filter	72-60-00, PARA 1.C.	If excessive carbon is found in the filter, inspect the scavenge and pressure oil system. Refer to 72-50-00 PARA 6.E., 6.F., 6.G., 6.H., 7.A., and 7.B.
SAL 1000 DI	28. Inspect P _c filter for proper clamping and security	73-20-03	
SAL 1000 DI	29. Without disassembly or removal of the P _c filter assembly from the mounting bracket, inspect using a 10X magnification and a bright light to detect any signs of cracks, paying particular attention to both of the end fittings at their junction with the end walls. If cracks are detected, remove assembly and comply with 250 CEB-A-75-3017.		Compliance with 250 CEB-A-75-3017 eliminates this inspection requirement.

72-00-00

TABLE 604

INITIAL	300 HOUR INSPECTION In addition to the 150 hour inspection items, perform the following:	REFERENCE SECTION	REMARKS
SAL 1000 DI	1. Inspect compressor mount for cracks.	72-00-00, PARA 1.A. (3), Engine-In- spection/ Check.3	
SAL 1000 DI	2. Clean power turbine support scavenge oil strut.	72-50-00, PARA 6.G.	
SAL 1000 DI	3. Clean external sump.	72-50-00, PARA 6.G.	
SAL 1000 DI	4. Clean No. 1 bearing oil pressure reducer.	72-30-00, PARA 2.A. (1)	
SAL 1000 DI	5. Clean pressure oil fitting screen assembly.	72-50-00, PARA 6.G.	
<p>CAUTION: EXTREME CARE SHOULD BE EXERCISED TO PREVENT TWISTING OF OIL NOZZLE DURING REMOVAL. DO NOT ATTEMPT TO STRAIGHTEN OR REUSE IF TWISTED.</p>			
SAL 1000 DI	6. Clean power turbine pressure oil nozzle.	72-50-00, PARA 6.G.	
	7. Deleted		
SAL 1000 DI	8. Remove, inspect, and reinstall the turbine pressure oil check valve.	72-60-00, PARA 2.K.	<p>NOTE: Check Valve P/N 23074872 and subsequent part numbers are not applicable to this inspection (these valves are considered "ON CONDITION").</p>
SAL 1000 DI	9. Inspect the fourth-stage turbine wheel-to-exhaust collector inner cone clearance.	72-00-00, PARA 1.A. (4), Engine- Inspection/ Check.	<p>NOTE: Compliance with 250 CEB 72-3044 eliminates this inspection requirement.</p>

72-00-00

EXPORT CONTROLLED

Rolls-Royce

250-C30 SERIES OPERATION AND MAINTENANCE

TECHNICAL ASPECTS ARE FAA APPROVED

TEMPORARY REVISION E6R14-72-2

LW698024

TABLE 604 (cont)

CAE 890381

AUG 22 2008

INITIAL	300 HOUR INSPECTION	REFERENCE SECTION	REMARKS
SAL 1000 DI	10. Inspect the rear engine mount for security and excessive bearing wear.	72-00-00, PARA 1.A. (5), Engine-Inspection/Check.	
SAL 1000 DI	11. Remove, clean inspect and reinstall the P _c filter.	73-20-03 PARA 2. and 3.	If engine performance deteriorates, P _c filter cleaning interval may have to be reduced.
<p>WARNING: PROPER TIGHTENING OF ENGINE TUBING CONNECTIONS IS CRITICAL TO FLIGHT SAFETY. CORRECT TORQUE VALUES MUST BE USED AT ALL TIMES. EXCESSIVE TORQUE ON PNEUMATIC SENSING SYSTEM CONNECTIONS RESULTS IN CRACKING OF THE FLARE CAUSING AN AIR LEAK WHICH CAN CAUSE FLAMEOUT, POWER LOSS OR OVERSPEED.</p>			
SAL 1000 DI	12. Inspect N ₁ shafting.	72-50-00, PARA 6.A.	NOTE: Compliance with 250 CEB 72-3059, 72-3096, 72-3100, A-72-3134 (twin engine applications), and A-72-3135 (single engine applications) eliminates this inspection requirement.
SAL 1000 DI	13. On power and accessory gearbox cover, check the applied torque on all turbine and exhaust collector support-to-gearbox retaining nuts.	72-50-00, para 1.B.	Torque must be 120-150 lb in. (14-17 N-m).
SAL 1000 DI	14. Inspect the thermocouple assembly (TOT/MGT).	77-20-01, PARA 2.B.	

TABLE 605

INITIAL	600 HOUR INSPECTION The following inspection is required every 600 hours time since last inspection.	REFERENCE SECTION	REMARKS
N/A	1. Perform scavenge oil filter impending bypass function check per Facet Service Bulletin No. 090589 (ref. Rolls-Royce CSL 3116) for all aircraft equipped with an external scavenge filter system.		

72-00-00

TABLE 606

INITIAL	2000 HOUR INSPECTION The following inspections are required every 2000 hours time since last inspection.	REFERENCE SECTION	REMARKS
N/A	1. Fuel control filter inspection.	73-20-02, PARA 5.A.	
SAL 1000 DI	2. Fuel nozzle filter inspection	73-10-03, PARA 2.A.	
SAL 1000 DI	3. Remove and replace the low pressure fuel filter element. Before discarding filter, inspect for signs of contaminants. If any are found, inspect the entire fuel system and clean if necessary.	73-10-05, PARA 2.	
SAL 1000 DI	4. Inspect the combustion liner.	72-40-00, PARA 1.C.	
SAL 1000 DI	5. Inspect the outer combustion case for cracks using Leak-Tek and/or dye penetrant.	72-40-00, PARA 2.B.(2) (3), and (4)	
SAL 1000 DI	6. Inspect the compressor discharge air tubes.	72-40-00, PARA 4.C.	
N/A	7. Inspect the N ₂ overspeed mounting dampers.	73-21-00, PARA 7.B.	
SAL 1000 DI	8. Inspect the spur adapter gearshaft, compressor rotor splined adapter and associated impeller bore.	72-30-00, PARA 4.B.(2), 4.C. and 4.E.	
SAL 1000 DI	9. Inspect the turbine to compressor coupling, turbine splined adapter, power turbine inner shaft and turbine shaft-to-pinion gear coupling	72-50-00, PARA 6.A. and 6.B.	Turbine to compressor coupling is part of the turbine assembly.
<p>NOTES: The following inspections are recommended whenever the turbine or compressor is removed in-between the required 2000 hour inspection.</p>			
<p>Anytime the compressor is removed from the engine, visually inspect the aft end of the spur adapter gearshaft for worn or damaged splines.</p>			
<p>Anytime the turbine is removed from the engine visually inspect the splines on the following items, turbine-to-compressor coupling, turbine splined adapter, power turbine outer shaft and turbine shaft-to-pinion gear coupling for worn or damaged splines.</p>			
<p>If spline wear or damage is observed the appropriate maintenance action is required. (Refer to item 6 and 7 above).</p>			
<p>Inspection intervals shall not exceed 2000 hours.</p>			

72-00-00



Engine Test Results

Model 250-C30SE

Customer: CANADIAN HELICOPTERS LIMITED ***
 Date: 20-Aug-08
 TCN: LW698024
 Shop Order: JBP83
 Run No.: 1

Engine S/N: CAE-890381
 Comp S/N: CAC-90648
 Turbine S/N: CAT-95498
 Gearbox S/N: CAG-90208
 RGB S/N: N/A



Engine performance data corrected to sea level, static (unity ram) standard day

Setting	GRC	CRB	CRA	NCR	TO	2.5 MIN
GPTOT				1240.0	1317.0	1371.0
SHP				578.8	656.8	708.2
Min Allow	334.0	418.0	501.0	557.0	650.0	700.0
% Var				3.9%	1.0%	1.2%
SFC	0.697	0.641	0.607	0.586	0.574	0.568
Max Allow	0.719	0.665	0.624	0.607	0.592	0.588
% Var	-3.0%	-3.7%	-2.8%	-3.4%	-3.1%	-3.3%

T/M Calibration at 700 HP = 98.9 PSIG

Seal Vent Orifice= -9

I hereby certify that the engine identified above has been tested in accordance with Rolls-Royce overhaul manual 14W3 ED2 REV14 01 APRIL 2008 for the specified workscope.



REPAIR AND OVERHAUL WARRANTY FOR MODEL 250

WARRANTY

Standard Aero warrants that repairs and overhauls performed by Standard Aero shall be free from defects in workmanship for the applicable warranty period subject to the terms and conditions herein. A defect shall mean the failure of an engine, module, or part to function in accordance with the applicable airworthiness authority or OEM's requirements due to Standard Aero's workmanship. New parts embodied by Standard Aero during an overhaul or repair shall be subject to the OEM's new part warranty. Standard Aero warrants that any other parts embodied by Standard Aero which have been subjected to the full Standard Aero Quality Assurance and Inspection shall be free from defects for the applicable warranty period only to the extent that such defects are reasonably ascertainable.

WARRANTY PERIOD AND COVERAGE

This warranty shall be effective during the following warranty periods. The warranty period shall be the Engine Operating Time measured in hours or the number of months prescribed, whichever occurs first:

SERVICE	HOURS	FROM INSTALLATION	SINCE SHIPPED	COVERAGE	
				Hours	Percentage
Accessories Overhaul	500 hours	12 months	12 months	0 - 500 hours	100%
Accessories Repair	500 hours	6 months	12 months	0 - 500 hours	100%
Engine Repair or Overhaul	500 hours	12 months	12 Months	0 - 500 hours	100%
OEM Embodied New Material	Per OEM	Per OEM	Per OEM	Per OEM	

WARRANTY CLAIMS

To obtain warranty coverage, defects in workmanship must be discovered within the warranty period and Standard Aero must be given prompt notice in writing no later than 3 days from the date the Customer knew or should have known of the defect. The engine, module or part must be returned to Standard Aero no later than 30 days after such notification is made at the Customer's expense. The Customer must make any previously attached or related parts available to Standard Aero upon request to assist in determining the cause of the defect.

Standard Aero will assist the Customer by administering new parts warranty claims with the OEM on behalf of the Customer in accordance with OEM warranty policies. Standard Aero will also assist the Customer by requesting that Standard Aero's suppliers' and subcontractors' warranties with respect to parts embodied in or services provided on the Customer's engines, modules, or parts will be extended to and be enforceable by the Customer.

Engines, modules, or parts for which a warranty claim has been allowed, shall be returned to the Customer at Standard Aero's expense. In the event that a warranty claim is denied, the engine, module, or part shall be returned to the customer C.O.D. and the cost of disassembly and reassembly to disclose the claimed defect and the cost of preparation of any technical report shall be borne by the Customer at Standard Aero's current applicable hourly rates.

CONDITIONS FOR WARRANTY COVERAGE

This warranty is extended to the Customer that originally contracted Standard Aero to perform the overhaul or repair service. This warranty may be transferred to another party with the prior written approval of Standard Aero and upon payment of a transfer fee of \$100.00.

Warranty coverage may be denied if the engine, module, or part: (1) has not been maintained and operated in accordance with Standard Aero's recommendations and the OEM's directives and instructions; (2) has been altered or repaired outside Standard Aero facilities; or (3) has been subjected to misuse, neglect, accident or damage from the elements.

WARRANTY LIMITATIONS AND EXCLUSIONS

Standard Aero does not warrant parts embodied or services performed by other companies.

The obligation of Standard Aero under this warranty is limited to the repair or replacement of the parts which failed due to defects in Standard Aero's workmanship and shall not include the costs of parts or labor necessary for the disassembly, reassembly, or testing of the major assembly in which the defect occurred. In the event that life-limited parts covered by this warranty are damaged beyond repair, Standard Aero shall only be obligated for the replacement value of such parts.

This warranty is in lieu of all other warranties expressed or implied, including but not limited to, any warranty of merchantability or fitness for a particular purpose. All other obligations and liabilities either direct or consequential on the part of Standard Aero relating to engines, modules, or parts are hereby expressly disclaimed.

This warranty does not include, and Standard Aero will not be liable for any other remedy or liability for incidental or consequential damages of any kind, including but not limited to such damages resulting from a breach of contract or warranty, alleged negligence or otherwise, damage to airframe or other property, costs or expense of operation of the engine, module, or part or other equipment, loss of the use of the aircraft, lost profits or revenue, cost of capital, cost of substitute equipment, facilities or services, downtime costs, collection costs, attorneys fees, damages of any type, or claims of Customer's buyers or other third parties for such damages, or any other loss, claim or demand of any description. Unresolved warranty disputes shall be referred to binding arbitration pursuant to the laws and in the location to be determined solely by Standard Aero.

Canadian Helicopters Limited

Customer Name

The Customer acknowledges having read and accepts the warranty terms and conditions herein.

22 August, 2008

Date of Issue

CAE-890381S

Engine / Module / Part Serial Number

Authorized Signature

ASSEMBLY RECORD

TURBINE ASSEMBLY

Turbine Serial Number CAT-90157

Engine Model 250-C30

Nomenclature	Part Number	Serial Number	INSTALLED			REMOVED			Reason
			Date	Unit Total Time	Life, Run Time	Date	Unit Total Time	Life, Run Time	
LEE BOLT	23008030	NC 74338	23-5-95	4309.9	7-376	10-7-97	5339.2	0.0	OK
1st Stage Wheel	23053299	XX	10-7-97	5339.2	0.0	Aug. 2001	7183.3	1650.1	OK
2nd Stage Wheel	23032280	XX	10-7-97	5339.2	0.0	Aug. 2001	7183.3	1650.1	OK
3rd Stage Wheel	089968	XX	10-7-97	5339.2	0.0	10/10/01	8424.9	3036.7	OK
4th Stage Wheel	089724	XX	10-7-97	5339.2	0.0	10/10/01	8424.9	3036.7	OK
TIE BOLT	23008030	NC 74338	10-7-97	5339.2	7-376	May 18/00	6622.4	1284.2	REPAIR
TIE BOLT	23008030	NC 74338	8 June 00	6622.4	7-376	Feb 16/03	5282.0	1151.1	OK
1st Stage Wheel	23053299	511848	12 Dec. 01	7183.3	0.0	Feb 16/03	7280.0	1000.0	OK
2nd Stage Wheel	23032280	X503560	12 Dec. 01	7183.3	0.0	Feb 16/03	7280.0	1000.0	REPAIR

ASSEMBLY RECORD TURBINE ASSEMBLY

Part V
Page No. 4.

Turbine Serial Number 247 94157

Engine Model 250-C305

Nomenclature	Part Number	Serial Number	INSTALLED			REMOVED			Reason
			Date	Turbine Total Time	This Run Cycles	Date	Turbine Total Time	This Run Cycles	
			NOV 10 53	7436.4	5913				
	2105241	11720			1200	AUG 04	8424.9	1236.6	TX'D
					30			2025	
					1378			1236.6	TX'D
					610	AUG 04	8424.9	7825	
					7136			UNK	
						AUG 04	8424.9	UNK	OVERHAUL



TURBINE ASSEMBLY



2785D (5/95)

Part V
Page No. 5

Turbine Serial Number CAT-90157 Engine Model 250-0305

Nomenclature	Part Number Serial Number	Date	INSTALLED		Date	REMOVED	
			Turbine	Component		Turbine	Component
			TT CYCLES	TT CYCLES		TT CYCLES	TT CYCLES
1 st STG. WHL.	23053299	04 OCT. 04	8424.9	0.0	FEB 28, 2005	8751.6	326.7
	X543435		16342	0		16913	571
2 nd STG. WHL.	23032280	04 OCT. 04	8424.9	0.0	FEB 28, 2005	8751.6	326.7
	X538487		16342	0		16913	571
3 rd STG. WHL.	6898663	04 OCT. 04	8424.9	0.0	FEB 28, 2005	8751.6	326.7
	X536796		16342	0		16913	571
4 th STG. WHL.	23066744	04 OCT. 04	8424.9	0.0	FEB 28, 2005	8751.6	326.7
	X530578		16342	0		16913	571
TIE BOLT	23068030	04 OCT. 04	8424.9	FREE	FEB 28, 2005	8751.6	UNK
	NC74938		16342	7376		16913	571
5 th STG. WHL.	23073566	04 OCT. 04	8424.9	0.0	FEB 28, 2005	8751.6	326.7
	NIL		16342	0		16913	571
5 th STAGE WHEEL	23053299	MAY 6, 2005	8751.6	0.0	16 JAN. 08	9915.8	1164.2
	X544083		16913	0		19724	2811
6 th STAGE WHEEL	23032280	MAY 6, 2005	8751.6	0.0	13 APR. 06	9210.7	459.1
	X538849		16913	0		18015	110.2
7 th STAGE WHEEL	6898663	MAY 6, 2005	8751.6	0.0	16 JAN. 08	9915.8	1164.2
	X536760		16913	0		19724	2811
8 th STAGE WHEEL	23066744	MAY 6, 2005	8751.6	0.0	8 JUL 09	10596.0	1844.4
	X530670		16913	0		21624	471



F-2705D (6/95)

ASSEMBLY RECORD TURBINE ASSEMBLY

Part V
Page No. 6

Turbine Serial Number CAT-90159

Engine Model 250-C30S

Nomenclature	Part Number Serial Number	Date	INSTALLED		Date	REMOVED	
			Turbine	Component		Turbine	Component
			TT CYCLES	TT CYCLES		TT CYCLES	TT CYCLES
	23002030		8751.6	0.0		10596.0	1844.4
1 ST STAGE	NC 81663	MAY 6 2005	16913	0	8 JUL 09	21624	4711
NOZZLE SHIELD	23073566		8751.6	120.0		10596.0	1501844.4
	WA 1185116	MAY 6 2005	16913	0.0	8 JUL 09	21624	4711
2 ND STG. WHL	23002280		9210.7	510.2		9915.8	1215.3
	X538375	6 MAY 06	18015	12120	16 JAN 08	9724	2921
3 RD STG. WHL	23053249		9915.8	0.0		10596.0	680.2
	X576118	13 FEB 08	19724	0	8 JUL 09	21624	1900
4 TH STG. WHL	23032280		9915.8	0.0		10596.0	680.2
	X576302	13 FEB 08	19724	0	8 JUL 09	21624	1900
5 TH STG. WHL	6898663		9915.8	0.0		10596.0	680.2
	X365808	13 FEB 08	19724	0	8 JUL 09	21624	1900
6 TH STG. WHL	23053199		10596.0	0.0			
	X588742	21 AUG 09	21624	0			
7 TH STG. WHL	23032280		10596.0	0.0			
	X578967	21 AUG 09	21624	0			
8 TH STG. WHL	6898663		10596.0	0.0			
	X565741	21 AUG 09	21624	0			
9 TH STG. WHL	23006744		10596.0	0.0			
	V471279	21 AUG 09	21624	0			

Assembly Record Turbine Assembly

Turbine Serial Number CAT- 90157 Engine Model 250- C30S

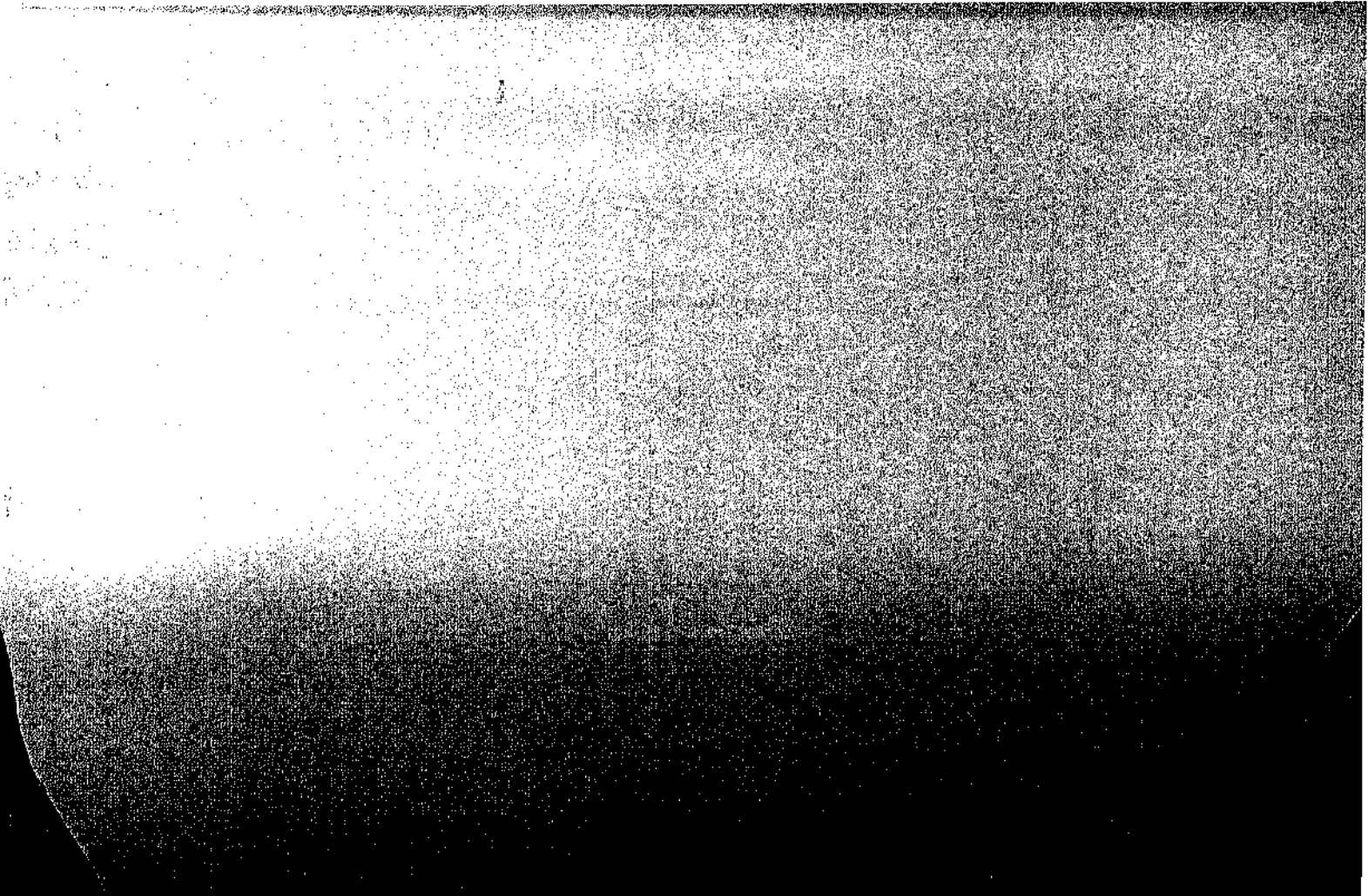
Nomenclature	Part Number Serial Number	Date	Installed		Removed		
			Turbine	Component	Date	Turbine	Component
			TT Cycles	TT Cycles		TT Cycles	TT Cycles
TIE BOLT	23008030 NC81863	21 AUG 09	10596.0	1844.4			
1 ST STAGE NOZZLE SHIELD	23073566 SL13487A	21 AUG 09	10596.0	186.0-0			



LIFE LIMITED PART LOG CARD

LIFE LIMITED PART NAME		PART NUMBER				SERIAL NUMBER		
3 rd STG WHEEL		6898663				X 565741		
Date Installed	Date Removed	Engine and Module S/N	Engine Model	Hours	Cycles	Overspeed Events* (as app)	Comments	Signature And Certificate #
				0.0	0			
		CAT-90157	L30S					

For PT Wheel Overspeed Cycles, record event date and event maximum % no the Comments Line.
 This card should accompany the part when removed from engine or module.
 12017 (4-05)





Rolls-Royce

LIFE LIMITED PART LOG CARD

LIFE LIMITED PART NAME		PART NUMBER			SERIAL NUMBER			
Date Installed	Date Removed	Engine and Module S/N	Engine Model	Hours	Cycles	Overspeed Events* (as app)	Comments	Signature And Certificate #
21 AUG 09		CAT-90157	1305	0.0	0			

*For PT Wheel Overspeed Cycles, record event date and event maximum % no the Comments Line.

*This card should accompnay the part when removed from engine or module.



LIFE LIMITED PART LOG CARD

This card is to accompany every life limited part of the engine for proper tracking of component life.

This card is to be completely filled out with all necessary information as follows:

Page Number - (if more than one card is needed for the component all pages should be retained for history purposes)

Life Limited Part Name

Part Number - (if part number is changed at some point during the life of the component a new card should be created and the old card retained for history purposes)

Serial Number

Date Installed

Date Removed

Engine and Module Serial Number

Engine Model

Hours - (to correspond with the date installed or removed, depending on entry being recorded)

Cycles - (to correspond with the date installed or removed, depending on entry being recorded)

Exceedance Events (as app) - (this column is only to be filled out for Power Turbine Wheels that are required to be tracked by events exceeding specified Event Thresholds)

Comments - (any important information regarding the history of the component, i.e. reason for removal, inspections, compliance, repair, scrap date, etc.)

Manufacturer and Certificate #

FORM 9385 (11-77)

CYCLE RECORD TURBINE ASSEMBLY

Part VI
Page No. 7

(Refer to Life Limiting CSL)

Turbine Serial Number GAT - 90157

Engine Model 250-C30

Installed				Do Not Exceed Cycle Counter Reading	Removed		Cycles Thru Installation
Date	Owner	Eng. S/N	Cycle Counter Reading		Date	Cycle Counter Reading	
4-29-79		890154	0000	3,000	16-5-83	1154	1154
16-May-83	Hants & Sussex	890154	156	3,000			
		890346	1904		11-7-85	1904	N/A
12/85	BAL	890346					
3-2-89	NOT PURCHASED	MINI-SERIES	1904	3000	01-15-89	1904	1904
		890455	1927		16-10-82	1958	1958
8-12-91	CHL GIMBIZ	890346	1958	3000	1-3-95	3238	1380/CSL 1380
5-6-96	CHL GIMBIZ	890249	2540	3000			
30-APR-97	CHL GIMBIZ	890249	2540	3000			
20-APR-97	CHL GIMBIZ	890249	2540	3000			

ENGINE CYCLE RECORD
TURBINE ASSEMBLY

(Refer to Life Limiting CSL)

Turbine Serial Number: DAF-90157 Engine Model: 50-630

Installed			Not Exposed		Removed		
Date	Owner	Eng. S/N	Cycle Counter Reading	Cycle Counter Reading	Date	Cycle Counter Reading	Cycles This Installation
	AME GCMW	8902093	906	0			
			2459	0			
			12044	0			
			1589	0			
			18042	0			
			6547	0			
			16127	0			
			9824	0			
			1535	0			

Engine S/N	Date	Turbine	Cycle Count	Engine Cycles at Installation	Data	Turbine	Engine Cycles		Engine S/N
							Current	Removal	

Engine Serial Number CAT 40 G 5 # Engine Model 2504 B02

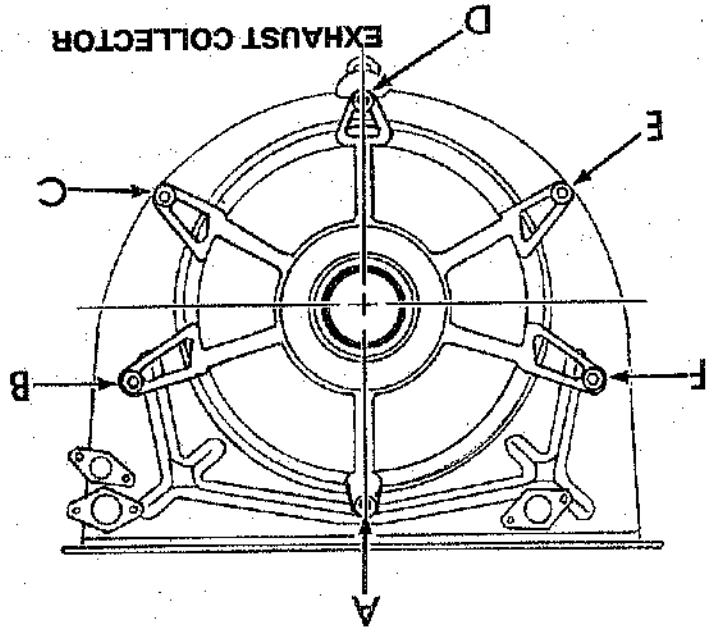
Cycle Record Turbine Assembly



Rolls-Royce

NOTE: Mount positions established as viewed from aft engine.

Date	SEP 01 2009
SAL W/O	LM 758705
Turbine S/N	CAT-90157



Shim Position	Total Shim Thickness
A	.002
B	.002
C	.000
D	.000
E	.000
F	.002

ROLLS-ROYCE 250 SERIES III & IV SHIM NOTICE

Inspection - Maintenance - Overhaul - Transfer - AD/CEB Compliance Record Accessory



Rolls-Royce

Part II


Nomenclature COMBUSTION LINER

Page No. 1

Component serial number SL13466A

Engine Model 250-030

Note 1: Record AD & CEB compliance and transfer information in "Remarks" section.
Note 2: This card must accompany accessory at removal.

Date	P/N	Accy. Time		Remarks	Signature and Certificate No.
		Since OH	Total		
11 Sept 09	23066675	0.0	unk	installed in new HW3, 2 nd ed, 15 th Rev dated 01/04/09 on SAL W/O LW 758708	 SAL-AMO



Service Accessory Record

Part I

Page No. 1

omenclature WEEB VALVE

omponent serial number FF 80310

Engine Model 250-C30

P/N 23073355 (040312) M.B.

Installed					Removed			
Date	Engine S/N	A/C S/N	Accy. Time		Date	Accy. Time		Reason
		Reg. #	Since OH	Total		Since OH	Total	
17 FEB 1988	CAE- 8903018	760055	0.0	UNK	17 FEB 1988			TROUBLE SHOOTING 4 ENGINE
31 MAY 2004	8903018	CGJMY			02 NOV 2004	264.5	UNK	DECLINING TRENDS EXHIBITS
2 FEB 2007	CAE- 900194	CGJMY	264.5	UNK	23 OCT 2007	548.4	UNK	W/ENGINE
DEC 07	CAE900194		548.4	UNK	23 OCT 2009	1448.9	UNK	TIMING
1 JULY 2010	CAE- 890381		0.0	UNK	19-MAY-17	598.2	UNK	REPAIR
1 MAY 17	CAE890381		598.2	UNK				

Inspection - Maintenance - Overhaul - Transfer - AD/CEB Compliance Record Accessory



Rolls-Royce

Part II

Nomenclature BLEED VALVE Page No. 1

Component serial number FF 80310 Engine Model 250- C30

Note 1: Record AD & CEB compliance and transfer information in "Remarks" section.

Note 2: This card must accompany accessory at removal.

Date	P/N	Accy. Time		Remarks	Signature and Certificate No.
		Since OH	Total		
MAR 12 2004	23073353	0.0	UNK	The product has been overhauled and tested in accordance with Rolls-Royce Overhaul Manual 14W3 Edition 2 Revision 9 Dated 01/Mar/03. The product is approved for return to service. All pertinent details of the work are on file at this organization under Work Order: <u>LH07021 PO 516011</u> <u>CEP 75-3624: EMPLOYED.</u>	 SAL-AMO # <u>341 01</u>
NOV 09 2007	23073353	548.4	UNK	The product has been repaired and tested in accordance with Rolls-Royce Overhaul Manual 14W3 Edition 2 Revision 13 Dated 01/Mar/07. The product is approved for return to service. All pertinent details of the work are on file at this organization under WO: <u>LW67604H.</u>	 SAL-AMO # <u>341 01</u>
APR 23 2010	23073353	0.0	UNK	The product has been overhauled and tested in accordance with Rolls-Royce Overhaul Manual 14W3 Edition 2 Revision 15 Dated 01/Jun/09. The product is approved for return to service. All pertinent details of the work are on file at this organization under WO: <u>L850334. PO# 528381</u> <u>RECEIVED ON CHL PO# 528381</u>	 SAL-AMO # <u>341 01</u>
MAY 24 2017	23073353	598.2	UNK	The product has been externally visual inspected and tested in accordance with Rolls-Royce overhaul manual 14W3, 2 nd Edition, 23rd Revision, Dated 01-APRIL-2017. The product is approved for return to service. All pertinent details of the work performed are on file at this organization under WO: <u>LW 262635.</u>	 AMO #22-58 <u>ARMAND RAPPAN</u>

1. Approving Civil Aviation Authority/Country
Transport Canada

2. AUTHORIZED RELEASE CERTIFICATE
FORM ONE

3. Form Tracking No.
ARCL350554

4. Organization name and address

STANDARD AERO LTD
33 ALLEN DYNE
WINNIPEG, MANITOBA, CANADA, R3H 1A1

AMO Approval No. 22-58

5. Work Order/Contract/Invoice
L850334

6. Item 01	7. Description BLEED VALVE	8. Part No. 23073353	9. Qty. 1	10. Serial/batch No. FF30310	11. Status/Work Overhauled
---------------	-------------------------------	-------------------------	--------------	---------------------------------	-------------------------------


12. Remarks
The product identified above has been overhauled and tested in accordance with Rolls-Royce Overhaul Manual 14W3 Edition 2 Revision 15 Dated 01/Apr/09 and the current maintenance rules of the Canadian Aviation Regulation. The product is approved for return to service in compliance with CAR 571, FAR Part 43.17 and EASA Part 145 (ref. EASA Approval Certificate EASA 145, 7059). All pertinent details of the work performed are on file at this organization under Work Order: L850334.

TSN: UNK TSO: 00HRS.
PO# 528381

COPY

13a. Certifies that the items identified above were manufactured in conformity for:
 Approved design data and are in condition for safe operation.
 Non approved design data specified in block 12.

14a. CAR 571.10 Maintenance release.
 Other regulations specified in block 12.
Certifies that, except where otherwise specified in block 12, the work identified in block 11 and described in block 12 was performed in accordance with Canadian Aviation Regulations.

13b. Signature N/A	13c. Approved Organization Number N/A	14b. Signature 	14c. Approved Organization Number AMO Approval No. 22-58
13d. Name N/A	13e. Date (dd/mm/yyyy) N/A	14d. Name CUCC PHAN	14e. Date (dd/mm/yyyy) 23-Apr-2010

1. This document does not constitute authority to install part.
2. Where the installer works in accordance with the national regulations of an airworthiness authority other than the authority specified in block 1, the installer must ensure that higher airworthiness authority accepts products or maintenance from the airworthiness authority specified in block 1.
3. Statements 13a and 14a do not constitute installation certification. In all cases the aircraft technical record must contain an installation certification, issued in accordance with the national regulations of the state of registry, before the aircraft may be flown.
(Previously Form 24-0078)



Service Accessory Record



Rolls-Royce

Nomenclature FUEL CONTROL

Part I
Page No. 4

Component Serial Number 326911

Engine Model 250-630

Installed					Removed				
Date	Engine S/N	Engine TT	Accessory Time		Date	Engine TT	Accessory Time		Reason
			Since OH	Total			Since OH	Total	
31 MAY 17	CAE 890381	11162.3	1135.2	UNK					



Inspection - Maintenance - Overhaul - Transfer - AD/CEB Compliance Record Accessory



Rolls-Royce

Part II

Page No. 3

Nomenclature FUEL CONTROL

Component Serial Number 326911

Engine Model 250- C30

Note 1: Record AD & CED compliance and transfer information in "Remarks" section.

Note 2: This card must accompany accessory at removal.

Date	P/N	Accessory Time		Remarks	Signature and Certificate No.
		Since OH	Total		
MAY 30 2017	23087146 (2549092-18)	1135.2	UNK	<p>The product has been externally visual inspected and tested in accordance with Rolls-Royce Component maintenance manual CSP24009, 1st Edition, 7th Revision, Dated 15/June/2004. The product is approved to return to service. All pertinent details of the work performed are on file at this organization under WO: <u>LW3262038</u>.</p> <p><u>CEBA-73-301571 BYPASS COVER SCREW INSPECTION RMB LAD</u></p>	<p>AMO #22-58</p> <p><i>[Signature]</i> RAMPOND</p>

Service Accessory Record




Part I
Page No. 2

omenclature FUEL CONTROL UNIT
Component serial number 325011
P/N 2549092-8 MB

Engine Model 250-C30

Installed					Removed			
Date	Engine S/N	A/C S/N	Accy. Time		Date	Accy. Time		Reason
		Reg. #	Since OH	Total		Since OH	Total	
7 FEB 04	#2	760926	0.0	UNK	17 FEB 05			Wrong
16 MAR 06	CAE-8901248	CGFMW			15 DEC 05	751.4	w/k	CAE-8901248
16 MAR 06		SJGA			17 FEB 05			
14 AUG 07	CAE-8901249	FSBII	751.4	UNK	14 JUL 07	1490.6	UNK	Power degradation with tol
14 AUG 07	CAE-8908498		1490.6	UNK	28 MAR 09	2494.0	UNK	Due for oil
19 MAY 09	CAE-890381		0.0	UNK	19 MAY 07	1135.2	UNK	Functional test
			1135.2	UNK	See log card page 4.			

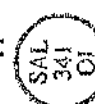

1. Approving Civil Aviation Authority/Country Transport Canada	2. AUTHORIZED RELEASE CERTIFICATE FORM ONE	3. Form Tracking No. ARCL261294
---	---	------------------------------------

4. Organization name and address  STANDARD AERO LTD 33 ALLEN DYNE WINNIPEG, MANITOBA, CANADA, R3H 1A1 AMO Approval No. 22-58					
6. Item 01	7. Description C30 FUEL CONTROL	8. Part No. 23070613	9. Qty. 1	10. Serial/batch No. 326911	11. Status/Work Overhauled

12. Remarks
The product identified above has been overhauled and tested in accordance with Rolls-Royce Component Maintenance Manual CSP 24009 Edition 1 Revision 7 Dated 15/Jun/2004 and the current maintenance rules of the Canadian Aviation Regulation. The product is approved for return to service in compliance with CAR 571, FAR Part 43.17 and EASA Part 145(ref. EASA Approval Certificate EASA 145.7059). All pertinent details of the work performed are on file at this organization under Work Order: L741278.

TSN: UNK. TSO: 0.0HRS.
CEB A-73-3075RI: EMBODIED.
PO# 526561

COPY

13a. Certifies that the items identified above were manufactured in conformity to: <input type="checkbox"/> Approved design data and are in condition for safe operation. <input checked="" type="checkbox"/> Non approved design data specified in block 12.		14a. <input checked="" type="checkbox"/> CAR 571.10 Maintenance release. <input checked="" type="checkbox"/> Other regulations specified in block 12. Certifies that, except where otherwise specified in block 12, the work identified in block 11 and described in block 12 was performed in accordance with Canadian Aviation Regulations.
13b. Signature N/A	13c. Approved Organization Number N/A	14c. Approved Organization Number AMO Approval No. 22-58 
13d. Name N/A	13e. Date (dd/mm/yyyy) N/A	14d. Date (dd/mm/yyyy) 08-Jun-2009
14b. Signature 		14d. Name CUC PHAN

1. This document does not constitute authority to install part.
2. Where the installer works in accordance with the national regulations of an airworthiness authority other than the authority specified in block 1, the installer must ensure that his/her airworthiness authority accepts products or maintenance from the airworthiness authority specified in block 1.
3. Statements 13a and 14a do not constitute installation certification. In all cases the aircraft technical record must contain an installation certification, issued in accordance with the national regulations of the state of registry, before the aircraft may be flown.
(Previously Form 24-0078)

Service Accessory Record



Rolls-Royce

nomenclature Fuel Nozzle 11thread
 component serial number UNIALP1493

Part I
 Page No. 1
 Engine Model 250-C30

Installed					Removed			
Date	Engine S/N	A/C S/N Reg. #	Accy. Time		Date	Accy. Time		Reason
			Since OH	Total		Since OH	Total	
APRIL 2009	CAE-890381		0.0	UNK	July 16/09	182.0	UNK	CHANGE TEST
SEPT. 09	CAE-890381		182.0	UNK				

Inspection - Maintenance - Overhaul - Transfer - AD/CEB Compliance Record Accessory



Rolls-Royce

Nomenclature Fuel Nozzle 11 thread Part II Page No. 1

Component serial number UNIALP1493 Engine Model 250-C30

Note 1: Record AD & CEB compliance and transfer information in "Remarks" section.

Note 2: This card must accompany accessory at removal.

Date	P/N	Accy. Time		Remarks	Signature and Certificate No.
		Since OH	Total		
6/24/07	23077067	N/A	Ø	Rec'd CHL PO# 159710	<i>[Signature]</i> 26593/018
JUL 17 2009	23077067	182.0	UNK	This product has been repaired and tested in accordance with Rolls-Royce Overhaul Manual 14W3 Edition 2 Revision 15 Dated 01/04/09. The product is approved for return to service. All pertinent details of the work are on file at this organization under W/O: <u>LN758708</u> .	<i>[Signature]</i> SAL 341 Q1

Service Accessory Record



Part I
Page No. 1

Item description FUEL PUMP

Component serial number T0159
PIN 689 6810

Engine Model 250-C305

Installed					Removed			
Date	Engine S/N	A/C S/N	Accy. Time		Date	Accy. Time		Reason
		Reg. #	Since OH	Total		Since OH	Total	
AF 13384.8 1 AUG 05 AUG. 05	CAE8905185	760110	3008.7	6059.5	AF 13681.1 25 JAN 06	3265.0	6355.8	DUR FOR OH
	#1	CGEMN						
	#2	760168	0.0	6355.8				
19 May 07	CAE8901245	C-FEBH			01 MAY 08	623.4	6979.2	REMOVED LOW FUEL PRESSURE
2 DEC 08	890381		623.4	6979.2				

Inspection - Maintenance - Overhaul - Transfer - AD/CEB Compliance Record Accessory



Rolls-Royce

Nomenclature FUEL PUMP

Part II

Page No. 1

Component serial number T0159

Engine Model 250- C306

Note 1: Record AD & CEB compliance and transfer information in "Remarks" section.

Note 2: This card must accompany accessory at removal.

Date	P/N	Accy. Time		Remarks	Signature and Certificate No.
		Since OH	Total		
FEB 21 2006	6896810 (394400-1)	0.0	6355.R	The product has been overhauled and tested in accordance with Rolls-Royce Component Maintenance Manual CSP 24009 Edition 1 Revision 7 Dated 15/Jun/04. The product is approved for return to service. All pertinent details of the work are on file at this organization under W/O: <u>L604694</u>	 SAL-341 QI
March 6, 06				Rec'd on CHL P/O # 519634	 SAL-AMO #22-
MAY 21 2006	6896810 (394400-1)	623.4	6979.R	The product has been repaired and tested in accordance with Rolls-Royce Component Maintenance Manual CSP 24009 Edition 1 Revision 7 Dated 15/Jun/04. The product is approved for return to service. All pertinent details of the work are on file at this organization under W/O: <u>L711041</u>	 SAL-341 QI
				ON CHL P/O # 524338	 SAL-AMO #22-

1. Approving national aviation authority/country
 Transport Canada

2. AUTHORIZED RELEASE CERTIFICATE
 TCCA 24-0078

3. Form Tracking No.
 ARCT211952

4. Approved organization name and address
 STANDARD AERO, 33 ALLEN DYNE, WINNIPEG, MANITOBA, CANADA, R3H 1A1
 AMO Approval No. 22-58

5. Work Order/Contract/Invoice
 L711041

6. Item Description	7. Part No.	8. Eligibility*	9. Qty.	10. Serial/Date No.	11. Status/Work
01 C30S ARGOTECH FUEL PUMP	6896810	N/A	1	T0159	Repaired

13. Remarks TSN: 6979.2 TSO: 623.4

THE PRODUCT IDENTIFIED ABOVE HAS BEEN REPAIRED AND TESTED IN ACCORDANCE WITH ROLLS-ROYCE COMPONENT MAINTENANCE MANUAL CSP 24009 EDITION 1 REVISION 7 DATED 15/JUN/2004 AND THE CURRENT MAINTENANCE RULES OF THE CANADIAN AVIATION REGULATION. THE PRODUCT IS APPROVED FOR RETURN TO SERVICE IN COMPLIANCE WITH CAR 571, FAR PART 43.17 AND EASA PART 145(REF. EASA APPROVAL CERTIFICATE EASA 145.7059). ALL PERTINENT DETAILS OF THE WORK PERFORMED ARE ON FILE AT THIS ORGANIZATION UNDER WORK ORDER: L711041

PO# 524338

14. Certifies that the items identified above were manufactured in conformity for:

Approved design data and are in condition for safe operation.

Non approved design data specified in block 13.

19. Certifies that, except where otherwise specified in block 13, the work identified in block 12 and described in block 13 was performed in accordance with CAR 571.

CAR 571.10 Maintenance release.

Other regulations specified in block 13.

15. Authorized signature	16. Certificate/Approval ref. No.	20. Authorized signature	21. Certificate/Approval ref. No.
N/A	N/A		SAL 341 Q1 AMO Approval No. 22-58
17. Name	18. Date (dd/mm/yyyy)	22. Name	23. Date (dd/mm/yyyy)
N/A	N/A	CUUC PHAN	21-May-2008

1. This document does not constitute authority to install part.
 2. Where the installer works in accordance with the national regulations of an airworthiness authority other than the authority specified in block 1, the installer must ensure that his/her airworthiness authority accepts products or maintenance from the airworthiness authority specified in block 1.
 3. Statements 14 and 19 do not constitute installation certification. In all cases the aircraft technical record must contain an installation certification, issued in accordance with the national regulations of the state of registry, before the aircraft may be flown.
 12/09/2001

Service Accessory Record



Rolls-Royce

Signature P.T. GROVER MOR
 Component serial number 84020051

Part I
 Page No. _____
 Engine Model 250-C30

Installed					Removed			
Date	Engine S/N	A/C S/N	Accy. Time		Date	Accy. Time		Reason
		Reg. #	Since OH	Total		Since OH	Total	
DEC. 08	CAE-890381		0.0	UNK				

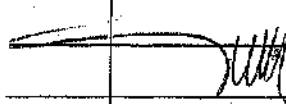
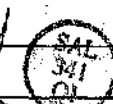
Inspection - Maintenance - Overhaul - Transfer - AD/CEB Compliance Record Accessory



Rolls-Royce

Nomenclature P.T. GOVERNOR Part II
 Page No. 1
 Component serial number 84020051 Engine Model 250-C30

Note 1: Record AD & CEB compliance and transfer information in "Remarks" section.
 Note 2: This card must accompany accessory at removal.

Date	P/N	Accy. Time		Remarks	Signature and Certificate No.
		Since OH	Total		
OCT 29 2008	23070106 (2524692-V) L110	0.0	UNK	The product has been overhauled and tested in accordance with Rolls-Royce Component Maintenance Manual CSP 24109 Edition 1 Revision 7 dated 15/10/04. The product is approved for return to service. All pertinent details of the work are on file of this organization under W/O: <u>1725370</u> . CEB 73 - 2017 : EMPLOYED.	  SAL AMO #22-5

MODIFICATION RECORD GEARBOX ASSEMBLY

Gearbox Serial Number CAG-90208

Engine Model 250-C30S

Compliance Date	Bulletin or Directive No.	Title	Signature	Organization
27 Sept. 2000	CEB 72-3206	Rework gearbox cover for installation of new #3 and 4 tabbed outer race bearings.	<i>[Signature]</i>	ACRO AEROSPACE INC.
27 Sept. 2000	CEB A-72-3217 R2	Improved No. 3 & 4 bearings - install.	<i>[Signature]</i>	ACRO AEROSPACE INC.
The following Mods are FOUND EMBODIED:				
DEC 23 2005	AD-84-24-54 - CEB 72-3066 R2 - 72-3158 r 4		SAL 303 QI	SAL-AMO-22-58
DEC 23 2005	CEB 72-3152 r 5	Install Increased Cap. Oil Pump	SAL 303 QI	SAL-AMO-22-58
DEC 23 2005	CEB 72-3182 r 1	Rmk to Add New Scr. Oil P/U Tube	SAL 303 QI	SAL-AMO-22-58
DEC 23 2005	CEB 72-3212 r 4	G/Box Oil Del. Tubing Improv. Target	SAL 303 QI	SAL-AMO-22-58
DEC 23 2005	CEB 72-3260 r 0	Release & Re-Identify Lip Seals	SAL 303 QI	SAL-AMO-22-58
DEC 23 2005	CEB 72-3270 r 1	Replace of Breather Gear Seal	SAL 303 QI	SAL-AMO-22-58
AUG 14 2008	CEB 72-3226 r 1	PTO GEARSHAFT MACHINE GROOVE	SAL 661 QI	SAL-AMO-22-58
SEP 03 2009	AD85-06-51	CEB-A-72-3098 r by ARE FOUND EMBODIED	SAL 303 QI	SAL-AMO-22-58
	CSL 3195 R1	BORE ALIGNMENT CHECK	SAL 661 QI	SAL-AMO-22-58

INSPECTION — MAINTENANCE — OVERHAUL RECORD

GEARBOX ASSEMBLY

FORM 2784C-1(4-79)

Gearbox Serial Number CAG - 90208

Engine Model 250-C30s

Date	Gearbox Time		Remarks	Signature	Organization
	Since OH	Total			
<u>24 Sep 82</u>	<u>NO PREV.</u>	<u>1705.6</u>	<u>Gearbox Visually Inspected 4/12/84</u>	<i>[Signature]</i>	<u>SAC</u>
<u>19.AUG.85</u>	<u>0.0</u>	<u>2862.8</u>	<u>Overhauled IAW Allison 250-C30 Man. 14W3 on Okanagan w/o EV05115</u>	<i>[Signature]</i>	<u>CHL</u>
<u>22.NOV.85</u>	<u>151.1</u>	<u>3013.9</u>	<u>REPAIRED WITH ENGINE 890608S IAW ALLISON 250-C30 man 14W3 on OKAN w/o EV05357</u>	<i>[Signature]</i>	<u>CHL</u>
<u>12 NOV 1987</u>	<u>1200.3</u>	<u>4063.1</u>	<u>REPAIRED IAW 14W3 ON W/O EV25218</u>	<i>[Signature]</i>	<u>CHL</u>
<u>06.06.89</u>	<u>2184.3</u>	<u>5047.1</u>	<u>REPAIRED IAW 14W3 ON EV25890</u>	<i>[Signature]</i>	<u>CHL</u>
<u>1 JUL 89</u>	<u>2184.3</u>	<u>5047.1</u>	<u>INSTALLED ON ENG 8902388 ON EV25876</u>	<i>[Signature]</i>	<u>CHL</u>
<u>3 JUL 89</u>	<u>2486.3</u>	<u>5349.1</u>	<u>REINSTALLED ON 8902385 EV 26475</u>	<i>[Signature]</i>	<u>CHL</u>
<u>21 Mar. 94</u>	<u>4065.1</u>	<u>5927.9</u>	<u>Gearbox repaired IAW 14W3 manual on CGT W/O# 93-07178, 3500HR WSP/CP</u>	<i>[Signature]</i>	<u>CHL</u>

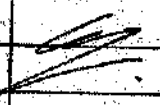

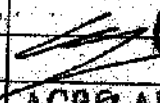

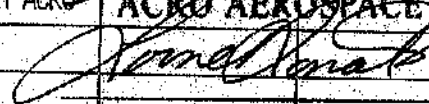

INSPECTION — MAINTENANCE — OVERHAUL RECORD

GEARBOX ASSEMBLY

FORM 2784C-1(4-79)

Gearbox Serial Number CAG - 90208

Engine Model 250- C30s

Date	Gearbox Time		Remarks	Signature	Organization
	Since OH	Total			
Nov. 97	8056.0	5193.2	Gearbox repaired IAW 14W3 manual on ACRO W/O# 97-50819 and 97-53937.		 ACRO
13 July 98	5431.8	8294.6	Gearbox repaired I.A.W. 14W3 Manual as per Acro Aerospace Inc. W/O #98-63846.		 Acro Aerospace Inc.
7 Sep. 2000	0.0	10038.4	Gearbox overhauled IAW 14W3 manual on ACRO Aerospace W/O# 20-06669.	 ACRO AEROSPACE INC	
<i>see Page 3</i>					



INSPECTION - OVERHAUL RECORD GEARBOX ASSEMBLY

F-2784B (5/95)

Gearbox Serial Number CAG- 90208 Engine Model 250-C30S

Date	Gearbox Time		Remarks	Signature and Certificate No.	Organization
	Since OH	Total			
Oct 18, 2003	912.2	10950.6	<p>STANDARD AERO www.standardaero.com</p> <p>33 Allen Dyne Road Winnipeg, Manitoba Canada R3H 1A1 Phone: 204-788-2693</p> <p>Gearbox has been repaired for vibrations in accordance with Rolls-Royce Model 250-C30 Overhaul Manual 14W3 2nd Ed., 8th Rev., dated November 1, 2001 and the current maintenance rules of the Canadian Aviation Regulations. CSL 3068 5th Rev dated March 15, 1998 has been accomplished. Further inspection or maintenance may be required and a completion of a satisfactory functional test while installed in the airframe prior to return to service. The work performed is in accordance with CAR 571, FAR Part 43.17 and JAR 145 (Reference JAA Acceptance Certificate No. JAA.7059). All mandatory modifications and Airworthiness Directives were complied with. All pertinent details of the work performed are on file at this organization under Work Order No. LW382259.</p>		

SAL-AMO-22-58


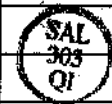


DUBNE ZORNIAK

Inspection - Maintenance - Overhaul Record Gearbox Assembly

 Gearbox Serial Number CAG-9D208

 Engine Model 250-C308

Date	Gearbox Time		Remarks	Signature and Certificate No.	Organization
	Since OH	Total			
2007/04	1969.2	12007.6	<p style="margin: 0;">STANDARD AERO www.standardaero.com</p> <p style="margin: 0;">33 Allen Dyne Road Winnipeg, Manitoba Canada R3H 1A1 Phone: 204-788-2693</p> <p style="margin: 0;">Gearbox Assembly has had an external, visual inspection for serviceability in accordance with Rolls-Royce model 250-C30 Overhaul Manual 14W3, 2nd ed., 10th rev., dated 15 March 2004, Op & Maint. Manual 14W2 6th ed., 10th rev dated 15 Nov 03. Further testing in the airframe may be required prior to the product's acceptance for return to service. All pertinent details of the work performed are on file at this organization under Work Order No. LW517147.</p>	 SAL-AMO-22-58	

Inspection - Maintenance - Overhaul Record Gearbox Assembly



Rolls-Royce

Part IV
Page No. 5.5

Gearbox Serial Number CAG-40208

Engine Model 250-C30E

Date	Gearbox Time		Remarks	Signature and Certificate No.	Organization
	Since OH	Total			
MARCH 4, 2004	1969.2	12007.6	<p>STANDARD AERO www.standardaero.com</p> <p>33 Allen Dyne Road Winnipeg, Manitoba Canada R3H 1A1 Phone: 204-788-2693</p> <p>Gearbox has been repaired for a pulled T/M Pressure Insert in accordance with Rolls-Royce 250-C30 Overhaul Manual 14W3 2nd Ed., 10th Rev., dated March 15, 2004, and the current maintenance rules of the Canadian Aviation Regulations. The gearbox is approved for return to service in compliance with CAR 571, FAR Part 43.17, and EASA Part-145 (reference EASA Acceptance Certificate EASA.145.7059). All mandatory modifications and Airworthiness Directives were complied with. All pertinent details of the work performed are on file at this organization under Work Order No. LW551774.</p> <p style="text-align: right;">of c/hl PO 517274</p>	<p>SAL-AMO-22-58</p> <p>SAL-501-01</p> <p>DUNNE ZERNIAK</p>	<p>Organization</p>

Inspection - Maintenance - Overhaul Record Gearbox Assembly

 Gearbox Serial Number CAG-90208

 Engine Model 250-C30S

Date	Gearbox Time		Remarks	Signature and Certificate No.	Organization
	Since OH	Total			
MCH 18/05	1969.2	12007.6	<p>STANDARD AERO www.standardaero.com</p> <p>33 Allen Dyne Road Winnipeg, Manitoba Canada R3H 1A1 Phone: 204-788-2693</p> <p>Gearbox has been installed onto engine S/N CAE 890849 and tested in accordance with Rolls Royce 250-C30 Overhaul Manual 14W3 2nd Ed., 10th Rev., dated March 15, 2004, and the current maintenance rules of the Canadian Aviation Regulations. The gearbox is released as repaired subject to a successful check run and power assurance check in the airframe. The work performed is compliance with CAR 571, FAR Part 43.17, and EASA Part-145 (reference EASA Acceptance Certificate EASA.145.7059). All mandatory modifications and Airworthiness Directives were complied with. All pertinent details of the work performed are on file at this organization under Work Order No. LW542305.</p>	<p>33 Allen Dyne Road Winnipeg, Manitoba Canada R3H 1A1 Phone: 204-788-2693</p> <p>SAL-AMD-22-58</p> <p><i>ASD</i> DUANE ZORNIAK</p>	<p>SAL-AMD-22-58</p> <p>501</p>

Inspection - Maintenance - Overhaul Record

Gearbox Assembly



Rolls-Royce

Part IV
Page No. 7

Gearbox Serial Number CAG-90208

Engine Model 250-6305

Date	Gearbox Time		Remarks	Signature and Certificate No.	Organization
	Since OH	Total			
Dec 23/05	2266.1	12304.5	<p>STANDARD AERO www.standardaero.com</p> <p>33 Allen Dyne Road Winnipeg, Manitoba Canada R3H 1A1 Phone: 204-788-2693</p> <p>Gearbox Assembly has been repaired for low power use and tested in accordance with Rolls Royce 250-C30 Overhaul Manual 14W3, 2nd Ed 11th Rev., dated April 1, 2005, The following major parts were replaced: spur adapter gearshaft. All mandatory modifications and Airworthiness Directives were complied with. All pertinent details of the work performed are on file at this organization under work order LW571489.</p>	 SAE-AMD-22-50 LORNA RICHARD <i>Lorna Richard</i>	

Inspection - Maintenance - Overhaul Record Gearbox Assembly

Part IV
Page No. 8

Engine Model 250-0306

Box Serial Number CAG-90208

Date	Gearbox Time		Remarks	Signature and Certificate No.	Organization
	Since OH	Total			
07/07	2930.4	12968.8	<p>STANDARD AERO www.standardaero.com 33 Allen Dyme Road Winnipeg, Manitoba Canada R3H 1A1 Phone: 204-788-2693</p> <p>Gearbox Assembly p/n 23035179 s/n CAG90208 has had an external visual serviceability inspection and tested in accordance with Rolls Royce 250-C30 Overhaul Manual 14W3 2nd Ed. 13th Rev. Dated 01/04/07 & Maintenance Manual 14W2 6th Ed. 13th Rev. Dated 15/11/06. The product is released serviceable for return to service. All pertinent details of work performed are on file at this organization under Work Order LW593753.</p>	<p>SAL 661 01</p> <p>PERRAULT REBECCA Perrault REBECCA</p>	<p>SAL-AMO-22-58</p>
07/07	2930.5	12968.9	<p>STANDARD AERO www.standardaero.com 33 Allen Dyme Road Winnipeg, Manitoba Canada R3H 1A1 Phone: 204-788-2693</p> <p>Gearbox Assembly p/n 23035179 s/n CAG90208 has been repaired for a cracked PTO Gearshaft in accordance with Rolls Royce 250-C30 Overhaul Manual 14W3 2nd Ed. 13th Rev. Dated 01/04/07. The following major parts were replaced: Power Takeoff Helical Gearshaft & Pressure Oil Screen Assy. The product is released serviceable for return to service, subject to satisfactory functional test results following installation in the airframe. All pertinent details of work performed are on file at this organization under Work Order LW556642.</p>	<p>SAL 661 01</p> <p>PERRAULT REBECCA Perrault REBECCA</p>	<p>SAL-AMO-22-58</p>

(12/98)

Inspection - Maintenance - Overhaul Record Gearbox Assembly



Rolls-Royce

Part IV
Page No. 9

Gearbox Serial Number CAG-90208

Engine Model 250-C303



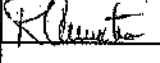
Date	Gearbox Time		Remarks	Signature and Certificate No.	Organization
	Since OH	Total			
17 Aug. 07	2930.5	12968.9	<p>STANDARD AERO www.standardaero.com</p> <p>33 Allen Dyne Road Winnipeg, Manitoba Canada R3H 1A1 Phone: 204-788-2693</p> <p>Gearbox Assembly p/n 23035179 s/n CAG90208 has been installed onto engine s/n CAB890446S and tested in accordance with Rolls Royce 250-C30 Overhaul Manual 14W3 2nd Ed. 13th Rev. Dated 01/04/07. The product is released serviceable for return to service. All pertinent details of work performed are on file at this organization under Work Order LW656883.</p>	<p>SAL 661 Q1</p> <p>SAL-AMO-22-50 Rebecca Perrault REBECCA PERRAULT</p>	
14 Aug 08	3589.7	13628.1			

Inspection - Maintenance - Overhaul Record Gearbox Assembly



Part IV
Page No. 10

Gearbox Serial Number CAG- 90208 Engine Model 250- C30S

Date	Gearbox Time		Remarks	Signature and Certificate No.	Organization
	Since OH	Total			
22 2008	3589.7	13628.1	 StandardAero www.standardaero.com Gearbox Assy p/n 23035179 s/n CAG-90208 has been installed on CAE-890381S and tested in accordance with Rolls Royce 250-C30 Overhaul Manual 14W3 2 nd Ed. 14 th Rev. Dated 01/04/08. The product is released serviceable for return to service. All pertinent details of the work performed are on file at this organization under Work Order LW698024.	33 Allen Dyne Road Winnipeg, Manitoba Canada R3H 1A1 Phone: 204-788-2693	
					SAL-AMO-22-58 
					ROGER CERVANTES

Inspection - Maintenance - Overhaul Record Gearbox Assembly





Rolls-Royce

Part IV
Page No. 11

Gearbox Serial Number CAG-90208

Engine Model 250-C30S



Date	Gearbox Time		Remarks	Signature and Certificate No.	Organization
	Since OH	Total			
3 SEPT. 09	4254.8	14293.2	 StandardAero www.standardaero.com 33 Allen Dyne Road Winnipeg, Manitoba Canada R3H 1A1 Phone: 204-788-2693 Gearbox Assembly p/n 23035179 s/n CAG-90208 has been repaired for Metal Generation & has had the 3500 hr geartrain NDT performed in accordance with Rolls Royce 250-C30 Overhaul Manual 14W3 2 nd Ed. 15 th Rev. Dated 01/04/09. The following major parts replaced: 77 Teeth Spur Idler Gearshaft, 26 Teeth Spur Idler Gearshaft, Starter Generator Gearshaft, Pressure & Scavenge Oil Pump Body Separator, Oil Pump Gear Shaft, Scavenge Oil Pump Body, Fuel Control/Oil Pump Gearshaft, T/M Gearshaft, Helical Power Takeoff Gearshaft, Helical Power Train Pinion Gear, Oil Filter Cap, (2) Helical Compression Springs & Bearings. The product is released serviceable for return to service, subject to satisfactory functional test results following installation in the airframe. All pertinent details of work performed are on file at this organization under Work Order LW758710. --	 SAL-AMO-22-58 <i>Rebecca Perrault</i> REBECCA PERRAULT	

Inspection - Maintenance - Overhaul Record Gearbox Assembly



Part IV
Page No. 12

Gearbox Serial Number CAG-90208 Engine Model 250-C305

Date	Gearbox Time		Remarks	Signature and Certificate No.	Organization
	Since OH	Total			
1 SEPT. 09	4254.8	14293.2	 StandardAero www.standaero.com 33 Allen Dyne Road Winnipeg, Manitoba Canada R3H 1A1 Phone: 204-788-2693 Gearbox Assembly p/n 23035179 s/n CAG-90208 has been installed onto engine s/n CAB-890381 & tested in accordance with Rolls Royce 250-C30 Overhaul Manual 14W3 2 nd Ed. 15 th Rev. Dated 01/04/09. The product is released serviceable for return to service. All pertinent details of work performed are on file at this organization under Work Order LW758708.	 SAL-AMO-22-58 <i>Rebecca</i> Perrault REBECCA PERRAULT	

ALLISON

SERVICE RECORD TURBINE ASSEMBLY



QT-2782D (5/85) (F)

Part I
Page No. 2

Turbine Serial Number CAT-90557 Engine Model 250-C30
Handwritten: 23075107 (030508) 248

Aircraft S/N	INSTALLED		REMOVED		Reason
	Date	TT TSO	Date	TT TSO	
CGM W	28 MAY 03				
CAE-8908075	31 MAR 03 10/16/03	7780.1	11F6360.8	8185.1	W/ENGINE
CGLMA #1	11F 9909.7	591.8	03 SEP 03	936.8	CAE-8908075
CAE-8908075	28 NOV 03 OCT 92005	8125.1	11F 10202.5	8424.9	CYCLED OUT
CGLMA #2	11F 12633.9	936.8	23 JUL 04	1236.6	
CAE-8901975	08 OCT 04	8424.9	11F 12420.6	8751.6	CRACKED BATTERY COMBUSTION CHAMBER
ESAN-760165 #2	11F 15682.8	0.0	19 FEB 05	326.7	
CAE-8905863	23 MAY 05 MAY 6 2005	8751.6	11F 14141.9	9210.7	W/ENGINE
CGM W-764169 #1	11F 9167.5	0.0	25 MAR 06	459.1	CAE-8905863
NE8905863	10 JUL 06 13 MAY 06	9210.7	11F 9704.6	9747.8	W/ENGINE
		459.1	13 JAN 07	996.2	CAE-8905863
		9747.8		9747.8	WARPED EXHAUST COLLECTOR
HE8905863	14 FEB 07	996.2	3 APR 07	996.2	
CGM W-760226		9747.8		9798.9	W/ENGINE
NE8905863	12 APR 07	996.2	17 JUL 07	1047.3	ENG CAE-8905863
CGM A-760018		9798.9		9915.8	W/ENGINE
NE8905863	21 AUG 07	1047.3	04 JAN 08	1164.2	CAE-8905863
		9915.8		10596.0	W/ENGINE
HE8905863	25 FEB 08	1164.2	16 July 09	1844.4	CAE-8905863
		10596.0			
CAE-890381	3 SEPT 09	0.0			

SERVICE RECORD TURBINE ASSEMBLY

Turbine Serial Number 890154 DATE 1/11/83 Engine Model 250-G30

INSTALLED					REMOVED			
Date	Owner	A/C or Eng. S/N	Turbine Time		Date	Turbine Time		Reason
			Since OH	Total		Since OH	Total	
4-29-79		890154	New	0.0				
6-17-80	SAHLE	890154	New	0.0	Dec 81	354	354	Major overhaul
DE 81	SAHLE	890154	3	354	5/4/83	847	847	
3/9/83	SAHLE	890154		847	10/2/85	1484	1484	Overhaul
1/18/85	SAHLE	890154	NIL	1484				
8/12/92	OH	890346	0.0	890346	10/10/92	8752	8752	REPLACED
6/16/95	CHE GIMPA	890154	0.0	4903	1/3/95	488.4	488.4	DAMAGE TO 4th WHEEL HOLDS ASSEMBLY
3/06/97	CHE GIMPA	890154	0.0	5382	10/16/99	813.2	813.2	
10/16/99	CHE GIMPA	890154	318.0	6151.6	27 May 00	1224.9	1224.9	
2/20/00	CHE GIMPA	890154	1224.9	6622.4	5/11/00	750.0	750.0	
5/11/00	CHE GIMPA	890154	0.0	7183.3	11/11/00	591.8	7781.1	

TRANSFER RECORD

Turbine Serial Number CAF 90157

Engine Model 250-090

Date	From	SHIPPED		Turbine Time		RECEIVED	
		To	Type	Since	Total	Date	By
3-29-79	BDA - GIC	SIKORSKY AIRCRAFT		New	0.0		
6-29-80	Sikorsky	British Airways	New	3.6			
	Brit. Airways	Hants & Sussex	New	354.00		7 Dec 81	Hants & Sussex
6 Dec 81	Hants & Sussex	British Airways	New	354.00			
	B.A. HELICOPTERS	HANTS AND SUSSEX AVIATION LTD.	NEW	847.15		11 Apr 83	HANTS AND SUSSEX AVIATION LTD.
6 May 83	HANTS AND SUSSEX AVIATION LTD.	B.A. HELICOPTERS	NEW	847.15			
	British Airways	HANTS AND SUSSEX AVIATION LTD.	New	1454.00		1-3-85	HANTS AND SUSSEX AVIATION LTD.
1-6-85	HANTS AND SUSSEX AVIATION LTD.	British Airways Hel.	Nil	1454.00			
8-3-89	HANTS AND SUSSEX AVIATION LTD.	B.L.H.	Nil	2940.30			

MODIFICATION RECORD

TURBINE ASSEMBLY

Turbine Serial Number CAT-90157

Engine Model 290-050

Compliance Date	Bulletin or Directive No.	Title	Signature	Organization
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07 Dec 1981	ADB 72-2025	No. 697 Bearing Oil Pressure Nozzle Assembly - Revision		AVIATION LTD
	ADB 72-2024	Exhaust Collector Flow Collector - Modify		
	ADB 72-2023	Exhaust Collector Repairing Rings-Add		
	ADB 72-2024	Horizontal Discharge Modify		
	ADB 72-2025	1.1. Outer Conductor Dis-Remove		
	ADB 72-2027	Disassemble Insulation Bracket-Remove		
	ADB 72-2021	2nd Stage Nozzle - Modify		

MODIFICATION RECORD
TURBINE ASSEMBLY

Equipment Part No.	Bulletin or Drawing No.	Description	Signature
	ORP 72-2038	2nd Stage Wheel - Modified	
	ORP 72-2038 (4.)	S.P. Inner & Outer Shells R Inner	
		Coil Spring Nut - of Electroless Nickel	
		Plate (P.T. sheet only)	
	ORP 72-4056 (Rev 4 H.III)	4th Stage Nozzle - Inspec	
		(Satisfies V/D 81-15-15)	
	ORP 7-2066	1st Spalling Inspection	
	ORP 72-2062	P.T. Inner & Outer Shells & Inner Compressor	
		and of Electroless Nickel plate.	
		P.T. Inner shell, handles on shell	
		WIP increased from diam 0.0	
		and PL sheet dissimilar from	
		2nd Stage Joints	
		ORP 72-2062	

OPERATION
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OPERATION
WILLIAMSON LTD
PLANTS AND SERVICES

FORM 278 (11-77)

MODIFICATION RECORD TURBINE ASSEMBLY

Part III
Page No. 3

Turbine Serial Number CAT 100157

Engine Model 250-030

Compliance Date	Bulletin or Directive No.	Title	Signature	Organization
11-85	CTB 72-3094	New No. 8 bearing.		CANTON AIR FORCE BASE CANTON, MA
"	" 72-7086	Turbine Drain Collector - Mods.		
"	" 72-3099	4th stage nozzle - Re-identification.		
"	" 72-3101	1st, 2, 3rd stage nozzles. Add outer band reinforcement ring & rope packing.		
"	" 72-3061	GR. 3, 4th support Assy. - Break edge hole.		
"	" 72-3106	Inspect turbine shafting & replace.		
11-85-22-05 (air tested)	"	Swir Adapter - 10 - 2185.		
"	" X 2-1107	New No. 8 bearing - 25000030.		
"	" 72-114	Dryout nozzle - install additional pin - 1101.		
"	" 72-3122	Turbine assembly 4th stage nozzle.		
"	" 72-3127	Check turbine additional Assy. & Insty. procedure.		

MODIFICATION RECORD

TURBINE ASSEMBLY

Turbine Serial Number QIT 90157 Engine Model 250-050

Compliance Date	Bulletin or Directive No.	Title	Signature	Organization
5.85	CIB 472-3128	Mod. EP support & adapt. Internal energy absorbing ring.		AMERICAN AIRLINES
"	" 472-3131	Increase stage 2 nozzle seal bore.		AMERICAN AIRLINES
"	" 472-3132	New 2nd stage wheel P/N 2503-209.		AMERICAN AIRLINES
"	" 472-3134	New Turb. to Comp. shaft P/N 2503-2145.		AMERICAN AIRLINES
8.3.89	QEB 472-3058	2 PT shafts-swage fit and pressure test		AMERICAN AIRLINES
	QEB 472-3119	PT shafts-thicker necked plate.		AMERICAN AIRLINES
	QEB 472-3142	3rd stage nozzle-modify.		AMERICAN AIRLINES
	QEB 472-3146	salined adaptor locknut torque inspect.		AMERICAN AIRLINES
	QEB 72-3151-1	PT support and sum cover-rework.		AMERICAN AIRLINES
	QEB 72-3153-1	Modify for absorbing support pads.	AMERICAN AIRLINES	H. S. AVIATION LTD.
	QSI 43066-1	NI stalling analysis.	AMERICAN AIRLINES	AMERICAN AIRLINES
	QBL 3002-451	2087-1 & AD 36-20-15 safety 2-501-6	AMERICAN AIRLINES	AMERICAN AIRLINES

GT-2783D (9-8-0)

MODIFICATION RECORD TURBINE ASSEMBLY

Part III
Page No. 5

Turbine Serial Number CAF 90157 Engine Model 250-C30

Compliance Date	Bulletin or Directive No.	Title	Signature	Organization
17 Nov. 1992	CEB 72-3196 R3	Exhaust collector modifications.	<i>[Signature]</i>	CANADIAN
17 Nov. 1992	CEB 72-3171 R2	Exhaust collector vent tube doublers.		C.A.S.
17 Nov. 1992	CEB 72-3150 R1	2nd stage nozzle inner ring replace.		TURBINES
17 Nov. 1992	CEB 72-3153 R3	Added pads to GP support.		
17 Nov. 1992	CEB 72-3158 R2	Installation of No. 5 bearing labyrinth seal.		
17 Nov. 1992	CEB 72-3168 R1	1st stage nozzle diaphragm locating key welds-mod.		
17 Nov. 1992	CEB 72-3169 R1	4th stage nozzle diaphragm locating key welds-mod.		
17 Nov. 1992	CEB 72-3178 R1	Remove bracket from exhaust collector.		
17 Nov. 1992	CEB A72-3160 R1	Engine turbine assembly with seal, gear and oil pan turbine inner and outer shafts.		
17 Nov. 1992	AD86-24-54 R2	Engine modifications.		
17 Nov. 1992	AD86-20-132	Stretched adapter, block and keratic.		
17 Nov. 1992	AD86-19-12, AD86-07-06 R7A		<i>[Signature]</i>	

MODIFICATION RECORD TURBINE ASSEMBLY

Turbine Serial Number GT-90157 Engine Model 250-C30

Compliance Date	Bulletin or Directive No	Title	Signature	Organization
3 May 1995	CEB 72-316R2	GP support-modify pilot fit	[Signature]	[Organization]
3 May 1995	CEB 72-3196R1	Authorization to reidentify semi-finished 2nd stage nozzles	[Signature]	[Organization]
3 May 1995	CSL A-3066 R2	NI-starting inspection	[Signature]	[Organization]
3 May 1995	CSL 3068 R2	Altison assured engine	[Signature]	[Organization]
3 May 1995	CEB 72-3023R2	Rescinded.	[Signature]	[Organization]
3 May 1995	CEB 72-3067R2	A-72-3125R3, A-72-3165R1, 72-3183 P/B	[Signature]	[Organization]
2 NOV 1996	4096-118-01	REMOVE OR SUPPLY AIR PARTS BEARING P/N'S	[Signature]	[Organization]
2 JUL 97	CEB 72-3158R2	NO SIG. VERIFY APPROVAL BY MODIFY	[Signature]	[Organization]
2 JUL 97	CEB 72-3157	NO SIG. VERIFY APPROVAL BY MODIFY	[Signature]	[Organization]
2 JUL 97	CEB 72-3158R2	NO SIG. VERIFY APPROVAL BY MODIFY	[Signature]	[Organization]
2 JUL 97	CEB 72-3158R2	NO SIG. VERIFY APPROVAL BY MODIFY	[Signature]	[Organization]
2 JUL 97	CEB 72-3158R2	NO SIG. VERIFY APPROVAL BY MODIFY	[Signature]	[Organization]
2 JUL 97	CEB 72-3158R2	NO SIG. VERIFY APPROVAL BY MODIFY	[Signature]	[Organization]
2 JUL 97	CEB 72-3158R2	NO SIG. VERIFY APPROVAL BY MODIFY	[Signature]	[Organization]

CHRYSLER CORPORATION

MOORE AEROSPACE

MODIFICATION RECORD TURBINE ASSEMBLY

GT-2788D (9-87)

Turbine Serial Number CAT-90157 Engine Model 250-C30

Compliance Date	Bulletin or Directive No.	Title	Signature	Organization
June 8, 2000	CEB 72-3068 R2	founder rebored		ACRO AEROSPACE INC
June 8, 2000	CEB 72-3221	GP turbine support replace		ACRO AEROSPACE INC
12 Dec 2001	CEB 72-3168 R2	Ends Start turbine nozzle radial clearance modify		ACRO AEROSPACE INC
12 Dec 2001	CEB 72-3219 R2	Horizontal fire shield 4 replace		ACRO AEROSPACE INC
12 Dec 2001	CEB 72-3238 R1	Recoating of Power Turbine inner shaft		ACRO AEROSPACE INC
12 Dec 2001	CSI 3016 R6	Model 250 repair and		ACRO AEROSPACE INC
2 Dec 2001	CSI 71-3066 R5	NI shafting inspection		ACRO AEROSPACE INC
12 Dec 2001	CEB-A-72-3252	VA to part number		ACRO AEROSPACE INC
MAR 21 2003	ANAC 72-3068 R2	Support for 3221 MAT EN		SAL AND 22-69
MAR 21 2003	ANAC 72-3221	Replace SRE turbine		SAL AND 22-69
MAR 21 2003	CEB 72-3168 R2	Traverse of turbine assembly		SAL AND 22-69
MAR 21 2003	CEB 72-3219 R2	Horizontal fire shield 4		SAL AND 22-69
MAR 21 2003	CEB 72-3238 R1	Recoating of Power Turbine inner shaft		SAL AND 22-69
MAR 21 2003	CEB 72-3252	VA to part number		SAL AND 22-69
MAR 21 2003	Following CEB's not FOUND ENCLOSED			SAL AND 22-69

MODIFICATION RECORD

TURBINE ASSEMBLY

Turbine Serial Number CAT 90152

Engine Model 250-C305

Compliance Date	Bulletin or Directive No.	Title	Signature	Organization
OCT 04 2004	CEB 72-3007	EXTRACTION OF IS-KR-22... CIVIL AIR INST A 6972-502		
	AD 86-19-12, A	D88-07-06 CEB 72-3007, 72-3024		
	CEB 72-3027	72-3032R, 72-3063R, 72-3079R		
	CEB 72-3101	72-3109R, 72-3114R, 72-3122R		
	CEB 72-3132	72-3134R, 72-3148, 72-3153R		
	CEB 72-3158	72-3168R, 72-3169R, 72-3178R		
	CEB 72-3188	72-3207R, 72-3219R, 72-3221		
	CEB A 72-3136R	A-72-3125R, A-72-3128R		
	CEB A 72-3125R	A-72-3173R, A-72-3165R		
	CEB A 72-3180R	FLAND EMBODIED		SAL-140-22-58

**AD NOTE COMPLIANCE
AND
CEB MODIFICATION RECORD
TURBINE ASSEMBLY**



T-2788A (10/98)

Part III
Page No. 9

Turbine Serial Number CAT-90157 Engine Model 250-0305

AD #	Applicable CEB #	Date	Method of Compliance	One Time	Recurring	Next Comp. Date Next Comp. @ Hrs	Signature and Certificate Number
		Hours @ Comp.					
D96-19-01		04 OCT. 04 8424.9	SUPERIOR #5478 BRG. WIA TO FIN	✓			SAL 500 Q.I. SAL-AMU-22-58
	CSLA-3066R5	04 OCT. 04 8424.9	NI SHAFTING INSPECTION		✓		SAL 500 Q.I. SAL-AMU-22-58
	CSLA-3087R1	04 OCT. 04 8424.9	LOCKWDT TORQUE CHECK		✓		SAL 500 Q.I. SAL-AMU-22-58
	CEB72-3151R1	04 OCT. 04 8424.9	REWORK P.T. SUPPORT AND SWAP COVER.	✓			SAL 500 Q.I. SAL-AMU-22-58
	CEB72-3238R5	04 OCT. 04 8424.9	RECORD P.T. INNER SHAFT.	✓			SAL 500 Q.I. SAL-AMU-22-58
	CEB72-3259	04 OCT. 04 8424.9	RELEASE OF 3RD NO 33LE		✓		SAL 500 Q.I. SAL-AMU-22-58
	CEBA-72-3108R9	04 OCT. 04 8424.9	SHAFTING INSPECTION		✓		SAL 500 Q.I. SAL-AMU-22-58
	CEBA-72-3120R4	04 OCT. 04 8424.9	2ND NO 33LE INSPECTION		✓		SAL 500 Q.I. SAL-AMU-22-58
	CEBA-72-3286R2	04 OCT. 04 8424.9	DOME INSPECTION		✓		SAL 500 Q.I. SAL-AMU-22-58

GT-2788A (10/98)

AD NOTE COMPLIANCE AND CEB MODIFICATION RECORD TURBINE ASSEMBLY



Rolls-Royce

Part III
Page No. 10

Turbine Serial Number CAT-90157 Engine Model 250-C303

AD #	Applicable CEB #	Date	Method of Compliance	One Time	Recurring	Next Comp. Date	Signature and Certificate Number
		Hours @ Comp.				Next Comp. @ Hrs	
/	CEB-A-72-32528	04 OCT 04 8424.9	REPLACE 1ST NO 33LE SHIELD				SAL 500 Q.I. SAL-AMU-22-
	CEB-A-72-32681	04 OCT 04 8424.9	INSPECTION OF BRD WHEEL				SAL 500 Q.I. SAL-AMG-22-
	USL-A306RS	MAY 6, 2005 8751.6	NT SHAFTING INSPECTION		X		SAL 501 Q.I. SAL-AMU-22-
	CEB-72-3158RA	MAY 6, 2005 8751.6	#5 LAB SEAL - INSTALL	X			SAL 501 Q.I. SAL-AMU-22-
	CEB-72-3190RA	MAY 6, 2005 8751.6	OIL DAMPENED #8 BEARING	X			SAL 501 Q.I. SAL-AMU-22-58
	CEB-72-3199RI	MAY 6, 2005 8751.6	INCREASED CAPACITY OF OIL DAMPENED #8 BEARING	X			SAL 501 Q.I. SAL-AMU-22-58
	CEB-A-72-3108RS	MAY 6, 2005 8751.6	TURBINE SHAFTING INSPECTION	X			SAL 501 Q.I. SAL-AMU-22-58
	AD 84-17-51RI	MAY 6, 2005	AD 86-14-13, AD 86-20-13	AD 88-		07-06,	/
	CEB-A-72-3087AI	3751.6	CEB 72-3023R2, 72-3065R3			72-3067R3	/
	72-3079RI	/	72-3101R6, 72-3104R3	72-	31/1	RI, 72-3102RT	/
	72-3132	/	FOUND IMMEDIATE				SAL 501 Q.I. SAL-AMU-22-58

Rolls-Royce
 Note Compliance And
 Modification Record
 Turbine Assembly



Part No.
 Page No. 1

Engine Serial Number CAT 70/57 Engine Model 250-C363

AD #	Applicable CEB #	Date		Method of Compliance	One Time	Recurring	Next Comp. Date		Signature and Certificate Number
		Hours	@ Comp				Next Comp. @	hrs	
	CEB 7A-31143	MAY 6 3655		2A-31143 2B-31143 2C-31143			7A-31143		<i>[Signature]</i>
	7A-31143A	8 5116		2A-31143A 2B-31143A 2C-31143A			7A-31143A		
	7A-31143B			2A-31143B 2B-31143B 2C-31143B			7A-31143B		
	CEB 7A-31143A			CEB 7A-31143A 2B-31143A 2C-31143A			7A-31143A		<i>[Signature]</i>
	CEB 7A-31143B			CEB 7A-31143B 2B-31143B 2C-31143B			7A-31143B		
	CEB 7A-31143C			CEB 7A-31143C 2B-31143C 2C-31143C			7A-31143C		
	CEB 7A-31143D			CEB 7A-31143D 2B-31143D 2C-31143D			7A-31143D		<i>[Signature]</i>
	CEB 7A-31143E			CEB 7A-31143E 2B-31143E 2C-31143E			7A-31143E		
	CEB 7A-31143F			CEB 7A-31143F 2B-31143F 2C-31143F			7A-31143F		
	CEB A 70-3272	26 JUL 05		NEW AT 22000 HRS RECORDED IN STADY STATE RESULTS AND APPROVED					<i>[Signature]</i>
		5336 h							
	CEB A 3006RTS	0 MAY 06		INSPECTION		X			<i>[Signature]</i> SAL-AMO-22-58
		9 JUL 07							<i>[Signature]</i> SAL-AMO-22-58
	CEB A 3006RTS	0 MAY 06		INSPECT PLUSE AFTER LOUNNET 2001E		X			
	CEB A 3006RTS	9 JUL 07		INSPECT PLUSE AFTER (P/N 2001E7-1)		X			<i>[Signature]</i> SAL-AMO-22-58
	CEB A 3006RTS	0 MAY 06		INSPECT PLUSE AFTER (P/N 2001E7-1)		X			<i>[Signature]</i> SAL-AMO-22-58
	CEB A 3006RTS	9 JUL 07		INSPECT PLUSE AFTER (P/N 2001E7-1)		X			
	CEB A 3006RTS	0 MAY 06		INSPECTION		X			<i>[Signature]</i> SAL-AMO-22-58
		9 JUL 07							<i>[Signature]</i> SAL-AMO-22-58
	CEB A 3006RTS	0 MAY 06		INSPECTION		X			

**AD NOTE COMPLIANCE AND
CEB MODIFICATION RECORD
TURBINE ASSEMBLY**



Rolls-Royce

Part II
Page No. 12

Turbine Serial Number CAT 70137

Engine Model 250-C303

AD #	Applicable CEB #	Date Hours @ Comp.	Method of Compliance	One Time	Recurring	Next Comp. Date Next Comp. @ Hrs	Signature and Certificate Number
	CEB 70-3254R1	6 FEB 01 031718	INCREASED ENGINE POWER PER OPERATOR REQUIREMENT	X		N/A	SAL 66101 SAL-AMO-22-58
	CEB 70-3254R2	6 FEB 01 031718	INCREASED ENGINE POWER PER OPERATOR REQUIREMENT	X		N/A	SAL 66101 SAL-AMO-22-58
	CEB A-70-3254R3	6 FEB 01 031718	INCREASED ENGINE POWER PER OPERATOR REQUIREMENT	X		N/A	SAL 66101 SAL-AMO-22-58
	CEB A-70-3254R4	20 AUG 01 134879	INSPECTION OF SHAFTING OPERATION	X	X	N/A	SAL 66101 SAL-AMO-22-58
	CEB A-70-3254R5	20 AUG 01 134879	INSPECTION OF SHAFTING OPERATION	X	X	N/A	SAL 66101 SAL-AMO-22-58
	CEB A-70-3254R6	20 FEB 01 031718	INSPECTION OF SHAFTING OPERATION	X	X	N/A	SAL 66101 SAL-AMO-22-58
	CEB A-70-3254R7	2 FEB 03 031718	INSPECTION OF SHAFTING OPERATION	X	X	N/A	SAL 66101 SAL-AMO-22-58
	CEB 70-3254R8	SEP 02 2000 105960	ADD SPRING LOCK WAFER AND SPRING LOCK NUT	X		N/A	SAL 11501 SAL-AMO-22-58
	CEB A-70-3254R9	SEP 02 2000 105960	INSPECTION AND REPLACEMENT OF STAINLESS STEEL	X		N/A	SAL 11501 SAL-AMO-22-58

Compliance And
 Modification Record
 Turbine Assembly



Turbine Serial Number CAT: 60157 Engine Model 250 C-30

AD #	Applicable CEB #	Date	Method of Compliance	One-time	Residual	Next Comp. Date	Signature and Certificate Number
		Hours @ Comp				Next Comp. @ Hrs	
	CEB A-72 2278 R3	SEP 17 2008	PT DISCREPANCY N/A TO SMC IN COMPLIANCE WITH 1592	X			SAL 1125 01 SAL-1110-22-00

INSPECTION — MAINTENANCE — OVERHAUL RECORD

TURBINE ASSEMBLY

2784D (11-77)

Turbine Serial Number CAT - 90157 Engine Model 250-430

Date	Turbine Time		Remarks	Signature	Organization
	Since OH	Total			
6 Dec 81	New	354.00	Turbine repaired - Released Untested.	<i>[Signature]</i>	HANTS AND SUSSEX AVIATION LTD
16 Oct 85	NEW	547.15	Turbine repaired and tested.	<i>[Signature]</i>	HANTS AND SUSSEX AVIATION LTD
7 Jul 85	OH	434.00	Turbine Overhauled - Untested. Assembled in accordance with ALLIANCE Temp. Rev. 72-8.	<i>[Signature]</i>	HANTS AND SUSSEX AVIATION LTD
26 Jun 85	NEW	1134.00	TURBINE TESTED	<i>[Signature]</i>	HANTS AND SUSSEX AVIATION LTD
25 Feb 89	OH	2940.79	Turbine overhauled and tested.	<i>[Signature]</i>	HANTS AND SUSSEX AVIATION LTD
7 Nov 92	OH	3815.77	Turbine assembly overhauled IAW 44W3 manual on OCT 11/92 92-013	<i>[Signature]</i>	CAVAS INC
23 May 1995	OH	4803.9	Turbine overhauled IAW 14W3 manual on Aero 1701F 95-18708.	<i>[Signature]</i>	CAVAS INC
	OH	5177.49			



**INSPECTION - MAINTENANCE - OVERHAUL RECORD
TURBINE ASSEMBLY**



F-2784D (5/95)

Part IV
Page No. 7

Turbine Serial Number CAT-90157

Engine Model 250-L30

Date	Turbine Time		Remarks	Signature and Certificate No.	Organization
	Since OH	Total			
31 MAR 03	591.8	7783.1	<div data-bbox="662 1459 922 1555" data-label="Image"></div> <div data-bbox="668 1530 901 1557" data-label="Text"><p>www.standardaero.com</p></div> <div data-bbox="1053 1453 1283 1553" data-label="Text"><p>33 Allen Dyne Road Winnipeg, Manitoba Canada R3H 1A1 Phone: 204-788-2693</p></div> <div data-bbox="657 1584 1362 1806" data-label="Text"><p>TURBINE CAT-90157 HAS BEEN, INSTALLED , AND TESTED IN ACCORDANCE WITH THE 14W3 2nd Edition 8th Revision dated 1/NOV/01 AND THE CURRENT MAINTENANCE RULES OF THE CANADIAN AVIATION REGULATIONS ALL PERTINENT DETAILS OF THE WORK PERFORMED ARE ON FILE AT THIS ORGANIZATION UNDER WORK ORDER # LW382294. TSO-591.8, TSN-7780.1, CSO-2216, CSN-12633.</p></div> <div data-bbox="1109 1768 1404 1870" data-label="Text"></div>		
	507.7716	850.12653			

SAL-AMO-2250

Inspection - Maintenance - Overhaul Record

TURBINE ASSEMBLY



Part IV
Page No. 5

Turbine Serial Number CAT-90157 Engine Model 250-C30

Date	Turbine Time		Remarks	Signature and Certificate No.	Organization
	Since OH	Total			
17, 2003	936.8	8125.1	<p>STANDARD AERO www.standardaero.com</p> <p>33 Allen Dyne Road Winnipeg, Manitoba Canada R3H 1A1 Phone: 204-788-2693</p> <p>Turbine has been given an external visual serviceability inspection and tested in accordance with Rolls-Royce Model 250-C30 Overhaul Manual 14W3 2nd Ed., 8th Rev., dated November 1, 2001 and the current maintenance rules of the Canadian Aviation Regulations. The turbine tested serviceable and is approved for return to service in accordance with CAR 571, FAR Part 43.17 and JAR 145 (Reference JAA Acceptance Certificate No. JAA.7659). All mandatory modifications and Airworthiness Directives were complied with. All pertinent details of the work performed are on file at this organization under Work Order No. LW468714.</p>	<p>SAL-AMD-22-58</p> <p><i>Duane Zorniak</i></p> <p>SAL 501 Q1</p> <p>DUANE ZORNIK</p>	<p>/</p>
	CSO: 2210	CSN: 15609			
20 MAY 2004	1184.6	8372.8	INSPECTION OF 1 ST STAGE NOZZLES (MED)		
	CSO 2537	16236	DOME C/O (EXCLOSURE 11.373)		

Inspection - Maintenance - Overhaul Record

TURBINE ASSEMBLY



Part IV
Page No. 7

Turbine Serial Number CAT-90157 Engine Model 250-C30S

Date	Turbine Time		Remarks	Signature and Certificate No.	Organization
	Since OH	Total			
MAY 6, 2005	0.0	8751.6	<p>STANDARD AERO</p> <p>33 Allen Dyne Road Winnipeg, Manitoba Canada R3H 1A1 Phone: 204-788-2693</p> <p>www.standardaero.com</p> <p>Turbine has been overhauled in accordance with Rolls Royce 250-C30 Overhaul Manual 2nd Ed 11th Rev., dated April 1, 2005 and the current maintenance rules of the Canadian Aviation Regulations. GP Rotor Tiebolt P/N 23008030 S/N NC81863 has a free length of 7.373" and has been stretched to 7.389". The turbine is approved for return to service in compliance with CAR 571, FAR Part 43.17, and EASA Part-145 (reference EASA Acceptance Certificate EASA.145.7059). All mandatory modifications and Airworthiness Directives were complied with. All pertinent details of the work performed are on file at this organization under Work Order No. LW542320.</p>	<p>SAL-AMO-22-58</p> <p><i>D. Zorniak</i></p> <p>DWANE ZORNIAK</p>	
	0.5050	8752.1			

Inspection - Maintenance - Overhaul Record Turbine Assembly



Part IV
Page No. 8

Turbine Serial Number CAI-90157

Engine Model 250-C305

Date	Turbine Time		Remarks	Signature and Certificate No.	Organization
	Since OH	Total			
MAY 6 2005	010	8751.6	<p>STANDARD AERO www.standardaero.com</p> <p>33 Allen Dyne Road Winnipeg, Manitoba Canada R3H 1A1 Phone: 204-788-2693</p> <p>Turbine has been installed onto engine S/N CAE 890586 and tested in accordance with Rolls Royce 250-C30 Overhaul Manual 2nd Ed 11th Rev., dated April 1, 2005 and the current maintenance rules of the Canadian Aviation Regulations. The turbine is approved for return to service in compliance with CAR 571, FAR Part 43.17, and EASA Part-145 (reference EASA Acceptance Certificate EASA.145.7059). All mandatory modifications and Airworthiness Directives were complied with. All pertinent details of the work performed are on file at this organization under Work Order No. LW542331.</p>		
	CSO: B	CSN: 16913			

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Inspection - Maintenance - Overhaul Record

TURBINE ASSEMBLY



Part IV
Page No. 9

Turbine Serial Number CAT- 90157

Engine Model 250- C305

Date	Turbine Time		Remarks	Signature and Certificate No.	Organization	
	Since OH	Total				
MAY 06	459.1 CEG: 1102	9210.7 CGN: 18015	<p style="text-align: center;">STANDARD AERO www.standardaero.com</p> <p>33 Allen Dyne Road Winnipeg, Manitoba Canada R3H 1A1 Phone: 204-788-2693</p> <p>Turbine Assembly p/n 23035128 s/n CAT90157 has been repaired to correct low power, the 1st Stage Nozzle Shield p/n 23073566 NDT inspected and tested in accordance with Rolls Royce 250-C30 Overhaul Manual 14W3 2nd Ed. 11th Rev. Dated 01/04/05 and the current maintenance rules of the Canadian Aviation Regulations. The following major parts were replaced: 1st & 2nd Stage Nozzles, 2nd Stage Wheel, Diaphragm, Thermocouple Assy & (1) Bearing. The product is released serviceable for return to service, on a time continued basis. All pertinent details of work performed are on file at this organization under Work Order LW592632. Tie Bolt p/n 23008030 s/n NCB1863 Freec: 7.373" Stretch: 7.389"</p>	 SAL-AMO-22-58 <i>Rebecca</i> REBECCA PERRAULT		

Inspection - Maintenance - Overhaul Record Turbine Assembly



Part IV
Page No. 10

Turbine Serial Number CAT 90157

Engine Model 250-2303

Date	Turbine Time	
	Since OH	Total
6 FEB. 07	996.2 CSO: 2360	9747.8 CSO: 19273
11 FEB. 07	996.2 CSO: 2360	9747.8 CSO: 19273

Remarks	Signature and Certificate No.	Organization
<p>STANDARD AERO www.standardaero.com</p> <p>33 Allen Dyne Road Winnipeg, Manitoba Canada R3H 1A1 Phone: 204-788-2693</p> <p>Turbine Assembly p/n 23035128 s/n CAT90157 has been repaired to correct a cracked exhaust collector in accordance with Rolls Royce 250-C30 Overhaul Manual 14W3 2nd Ed. 12th Rev. Dated 01/04/06 and the current maintenance rules of the Canadian Aviation Regulations. The following major parts were replaced: Exhaust Collector, Power Coupling Nut & 1st Stage Nozzle. The product is released serviceable for return to service, on a time continued basis, subject to satisfactory functional test results following installation in the airframe. All pertinent details of work performed are on file at this organization under Work Order LW645052. Note: 640 cycles remaining on 1st Stage Wheel s/n X544002. 530 cycles remaining on 2nd Stage Wheel s/n X538375.</p>		
<p>STANDARD AERO www.standardaero.com</p> <p>33 Allen Dyne Road Winnipeg, Manitoba Canada R3H 1A1 Phone: 204-788-2693</p> <p>Turbine Assembly p/n 23035128 s/n CAT90157 has been installed onto engine s/n CAE890586S and tested in accordance with Rolls Royce 250-C30 Overhaul Manual 14W3 2nd Ed. 12th Rev. Dated 01/04/06 and the current maintenance rules of the Canadian Aviation Regulations. The product is released as repaired, on a time continued basis, subject to a successful check run and power assurance check in the airframe. All pertinent details of work performed are on file at this</p>		

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Inspection - Maintenance - Overhaul Record

TURBINE ASSEMBLY



Part IV
Page No. 11

Engine Serial Number CAI 19157 Engine Model 250-C30

Date	Turbine Time		Remarks	Signature and Certificate No.	Organization
	Since OH	Total			
1986	996.2	9947.5	<div data-bbox="534 341 805 445" data-label="Image"> </div> <div data-bbox="925 331 1157 445" data-label="Text"> <p>33 Allen Dyne Road Winnipeg, Manitoba Canada R3H 1A1 Phone: 204-788-2693 www.standardaero.com</p> </div> <div data-bbox="518 455 1236 642" data-label="Text"> <p>Turbine Assembly p/n 23035128 s/n CAI90157 has been repaired to correct a warped exhaust collector and tested in accordance with Rolls Royce 250-C30 Overhaul Manual 14W3 2nd Ed. 13th Rev. Dated 01/04/07. The following major part was replaced: Exhaust collector. The product is released as repaired, on a time continued basis, subject to a successful check run and power assurance check in the airframe. All pertinent details of work performed are on file at this organization under Work Order LW593754.</p> </div>	<div data-bbox="1332 362 1444 466" data-label="Image"> </div> <div data-bbox="1332 476 1516 528" data-label="Text"> <p>SALAMO-22-58</p> </div> <div data-bbox="1332 590 1508 673" data-label="Text"> <p>REBECCA PERRAULT</p> </div>	

**Inspection - Maintenance - Overhaul Record
Turbine Assembly**



Rolls-Royce

Part IV
Page No. 12

Turbine Serial Number CAT 90157

Engine Model 250-C66S

Date	Turbine Time		Remarks	Signature and Certificate No.	Organization
	Since OH	Total			
31 AUG 07	1047.3	9798.9	<p align="center">STANDARD AERO www.standardaero.com</p> <p>33 Allen Dyne Road Winnipeg, Manitoba Canada R3H 1A1 Phone: 204-788-2693</p> <p>TURBINE CAT90157 HAS BEEN INSPECTED EXTERNALLY FOR SERVICEABILITY, (COMPLETED NDT OF 1ST STAGE NOZZLE SHIELD, CSL-A-3066R5.) IN ACCORDANCE WITH THE 10W3 2nd EDITION 13th REVISION DATED 01/APR/2007 AND THE CURRENT MAINTENANCE RULES OF THE CANADIAN AVIATION REGULATIONS. ALL PERTINENT DETAILS OF THE WORK PERFORMED ARE ON FILE AT THIS ORGANIZATION UNDER WORK ORDER # LW656645. TSO-1047.3, CSO-2506, TSN-9798.9, CSN-19419.</p> <p>TURBINE CAT90157 HAS BEEN INSTALLED ON CAE890586S AND TESTED IN ACCORDANCE WITH THE 10W3 2nd EDITION 13th REVISION DATED 01/APR/2007 AND THE CURRENT MAINTENANCE RULES OF THE CANADIAN AVIATION REGULATIONS. ALL PERTINENT DETAILS OF THE WORK PERFORMED ARE ON FILE AT THIS ORGANIZATION UNDER WORK ORDER # LW656638. TSO-1047.3, CSO-2506, TSN-9798.9, CSN-19419.</p>		
	RSB 2506	CA 19419			

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SAL-AMO-22-56

Inspection - Maintenance - Overhaul Record

TURBINE ASSEMBLY



Part IV
Page No. 13

Turbine Serial Number: CAT 10157

Engine Model: 250-C30

Date	Turbine Time		Remarks	Signature and Certificate No.	Organization
	Since OH	Total			
FEB 08	1164.2	9916.8	<div style="text-align: center;"> <p>www.standardaero.com</p> </div> <p>33 Allen Dyne Road Winnipeg, Manitoba Canada R3H 1A1 Phone: 204-788-2693</p> <p>Turbine Assembly p/n 23035128 s/n CAT90157 has been repaired to replace cycle expired 1st & 2nd Stage Wheels (1st Nozzle Shield p/n 23073566 was NDT inspected) in accordance with Rolls Royce 250-C30 Overhaul Manual 14W3 2nd Ed. 13th Rev. Dated 01/04/07. The following major parts were replaced: Power Coupling Nut, 1st, 2nd & 3rd Stage Wheels, 1st & 2nd Stage Nozzles and Thermocouple Assy. The product is released serviceable for return to service, on a time continued basis, subject to satisfactory functional test results following installation in the airframe. All pertinent details of work performed are on file at this organization under Work Order LW689553.</p> <p>Tie Bolt p/n 23008030 s/n NC81863 Free: 7.373" Stretch: 7.390"</p>	<div style="text-align: center;"> <p>SAL AMO 22 50</p> <p>REBECCA PERFAULT</p> </div>	
	058.28	053.97			

84D18/99

Inspection - Maintenance - Overhaul Record

Turbine Assembly



Part No. _____
Page No. _____

Turbine Serial Number: CAT 250-305-1
Engine Model: 250-305-1

Date	Turbine Time	Remarks
Since OH	Total	

Signature _____
Certificate No. _____
Organization _____

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Canada R3H 1A1
Winnipeg, Manitoba
Phone: 204-788-2693

Turbine Assembly p/n 23035128 s/n CAT90157 has been installed onto engine s/n CAT8915865 and tested in accordance with Rolls Royce 250-C30 Overhaul Manual 14W3 2nd Ed. 13th Rev. Dated 01/04/07. The product is released as repaired, on a time continued basis, subject to a successful check run and power assurance check for the airframe. All pertinent details of work performed are on file at this organization under Work Order LW689550.

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Canada R3H 1A1
Phone: 204-788-2693

Turbine Assembly p/n 23035128 s/n CAT-90157 has been overhauled in accordance with Rolls Royce 250-C30 Overhaul Manual 14W3 2nd Ed. 15th Rev. Dated 01/APR/09. The product is released serviceable for return to service. All pertinent details of the work performed are on file at this organization under Work Order LW758705.

Tiebart P/N 2300830 s/n H/C818L3 FREE: 7.573 "SINMETR": 7.384 "

CERVAULT
ROGER
SAL AMO 2258
SAL AMO 2258
SAL AMO 2258

ASSEMBLY RECORD TURBINE ASSEMBLY

FORM 2785D (11-77)

Part No.
Page No. 7

Turbine Serial Number: 90157

Engine Model: 2505080

REMOVED

Part Number	Serial Number	Date	Turbine Part	Time	Cycle	Date	Reason
6898871	XS1910	4-29-79		0:0		7.6.85	REMOVED
6898822	AD10093			0:0			REMOVED

6898668	FX11020			0:0		8.3.89	REMOVED
---------	---------	--	--	-----	--	--------	---------

6898767	HX31113			0:0		8.3.89	REMOVED
---------	---------	--	--	-----	--	--------	---------

6898691	XZ3845			0:0		16.1.85	REMOVED
---------	--------	--	--	-----	--	---------	---------

6898691	XZ3845			0:0		8.3.89	REMOVED
---------	--------	--	--	-----	--	--------	---------

6898691	XZ3845			0:0		8.3.89	REMOVED
---------	--------	--	--	-----	--	--------	---------

6898691	XZ3845			0:0		8.3.89	REMOVED
---------	--------	--	--	-----	--	--------	---------

6898691	XZ3845			0:0		8.3.89	REMOVED
---------	--------	--	--	-----	--	--------	---------

6898691	XZ3845			0:0		8.3.89	REMOVED
---------	--------	--	--	-----	--	--------	---------

Date	Since OH	Total	Engine Time
04 APR 08	9127.8	16795	
04 APR 08	9127.8	16795	
AUG 22 2008	7358.1	9303.6	
	CSO: UNK	CSN: 17173	

Engine Assembly p/n 23005290 s/n CA1:890381S with (2) vibration brackets (less F-CU to Fireshield Tube Assy, Fuel Hose Assy, N2 Overspeed Control, and Starter Counter) has been repaired for low power and cycled out Turbine (OCC and Discharge Tubes were pressure tested and NDT inspected) (Compressor Assy s/n CAC:90648, Gearbox Assy s/n CAG-90208 and Turbine Assy s/n CAT-95498 were installed) and tested (150 hr vibration test completed using ACES equipment) in accordance with Rolls Royce 250-C30 Overhaul Manual 14W3 2nd Ed. 14th Rev. Dated 8/04/08, 150, 300 & 2000 hr inspections have been complied with (engine only) as indicated in the supplied checklist. New Maintenance Manual 14W2 6th Ed. 14th Rev. Dated 15/1/07. The following major parts were replaced: (2) Tube Assy, Fuel Control, Combustion Liner, Lubrication Oil Check Valve, Gearbox Assy and Turbine Assy. The product is released serviceable for return to service. All pertinent details of the work performed are on file at this organization under Work Order LW698024.

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Canada R3H 1A1
Phone: 204-788-2693



SALMONDERS
ROGER
CERVANTES

Organization	Signature	Remarks
EXTRATC	165-93 179 CHL	P.T. GOVERNOR REMOVED TRANSCRIBER FOR ROBERT HOESBANK
EXTRATC	165-93 179 CHL	GOV CONTROL UNIT REMOVED TRANSCRIBER FOR ROBERT HOESBANK
EXTRATC	165-93 179 CHL	TRUBLE OPERATION
EXTRATC	165-93 179 CHL	TRUBLE VIB SWEEP

INSPECTION — MAINTENANCE — OVERHAUL RECORD

ENGINE ASSEMBLY

Engine Serial Number CAE-890381 Engine Model 250-C30



INSPECTION - MAINTENANCE - OVERHAUL RECORD

ENGINE ASSEMBLY

Engine Serial Number CAE-890381

Engine Model 250-C30s

Part IV
Page No. 8

Date	Engine Time		Remarks	Signature	Organization			
	Since OH	Total						
Sept-09	8023.2	9968.7	<p>Engine Assembly p/n 23005290 s/n CAE-890381 complete with (2) vibration brackets (less N2 Overspeed Control, Start Counter, Fuel Hose, Fuel Control to Refreshfield Tube & Solenoid to Bleed Valve Tube) has been repaired for Metal Generation (OCC & Discharge Tubes were NDT inspected & pressure tested; a new Combustion Liner was installed) (Compressor Assy s/n CAC-90451 installed) (Gearbox Assy s/n CAC-90208 installed) (Turbine Assy s/n CAT-90157 installed) & tested (150 hr vibration test performed) in accordance with Rolls Royce 250-C30 Overhaul Manual 14W3 2nd Ed. 15th Rev. Dated 01/04/09. 150, 300 & 2000 hr inspections have been complied with (engine only) as indicated in the supplied checklist per Maintenance Manual 14W2 6th Ed. 15th Rev. Dated 15/11/08. The following major parts were replaced: Turbine Assy, Compressor Assy, Vent Tube Flanged Adapter, Compressor to Turbine Vent Tube, Combustion Liner, (6) Tube Assy's & Lubc Check Valve. The product is released serviceable for return to service. All pertinent details of work performed are on file at the organization under Work Order LW758708.</p>	<p>33 Allen Dyme Road Winnipeg, Manitoba Canada R3H 1A1 Phone: 204-788-2683</p>	<p>SAL 661 01</p>	<p>SAL-AMO-22-58</p>	<p>Rebecca Perrault</p>	<p>REBECCA PERRAULT</p>

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Inspection - Maintenance - Overhaul Record

Engine Assembly

Part IV

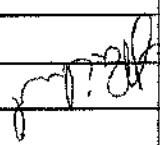
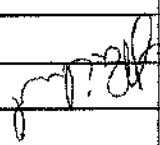
Page No. 9

Engine Model 250-630

CAE 890381

Engine Serial Number

122

Date	Engine Time		Remarks	Signature and Certificate No.	Organization
	Since OH	Total			
Sept 09	8023.2	9968.7	<p>Engine Assembly p/n 23005290, complete with (2) vibration brackets (less N2 Overspeed Control, Start Counter, Fuel Hose, Fuel Control to Freshfield Tube & Solenoid to Bleed Valve Tube) has been repaired for Metal Generation (OCC & Discharge Tubes were NDT inspected & pressure tested; a new Combustion Liner was installed) (Compressor Assy s/n CAC-90451 installed) (Gearbox Assy s/n CAG-90208 installed) (Turbine Assy s/n CAT-90157 installed) & tested (150 hr vibration test performed) in accordance with Rolls Royce 250-C30 Overhaul Manual 14W3 2nd Ed. 15th Rev. Dated 01/04/09.</p> <p>150, 300 & 2000 hr inspections have been complied with (engine only) as indicated in the supplied checklist law Maintenance Manual 14W2 6th Ed. 15th Rev. Dated 15/11/08. The following major parts were replaced: Turbine Assy, Compressor Assy, Vent Tube Flanged Adapter, Compressor to Turbine Vent Tube, Combustion Liner, (6) Tube Assys & Tube Check Valve. The product is released serviceable for return to service. All pertinent details of work performed are on file at this organization under Work Order LW7587C8.</p>	<p>Richard</p> 	SAL-AMO-22-58
25 Sept 09	8023.2	9968.7	<p>Rolls Royce</p>	<p>Richard</p> 	SAL-AMO-22-58



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Winnipeg, Manitoba
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Phone: 204-788-2693

CSN: 18758
9968.7

CSN: 18758

2784A (7/03)

CSN 18758

Rolls Royce SAL 7105

Inspection - Maintenance - Overhaul Record

Engine Assembly



Part IV
Page No. 10

Engine Serial Number CAE-890381

Engine Model 250-C30

Date	Engine Time		Remarks	Signature and Certificate No.	Organization
	Since OH	Total			
15 June 17	9216.8	1162.3			
18 Oct 2009	10027.1	10027.1	Rolls Royce Engine Assembly		

Engine Assembly p/n 23005290 s/n CAE890381 has been functionally tested; following functional test the following maintenance & inspections were performed: Qty (1) stud was replaced on the Gearbox Housing; the Fuel Control, Bled Valve & RG Check Valve were repaired & re-installed, remainder of the engine had an external visual serviceability inspection performed per Rolls Royce 250-C30 Overhaul Manual (AW3 2nd Ed. 23rd Rev. Dated 01 Apr. 2017 & Maintenance Manual (AW2 6th Ed. 23rd Rev. Dated 15 Nov. 2016. The product is released as repaired, subject to a successful check run and power assurance check in the airframe. All pertinent details of work performed are on file at this organization under Work Order LW262638.

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Phone: 204-318-7588

CSO: UNK
CSN: 21534

AMO #22-58
Rolls-Royce
Overhaul
REBECCA
PERVAULT

ASSEMBLY RECORD ENGINE ASSEMBLY

Engine Serial Number 890381

AMS 890381

Engine Model 250-C30 S

250-C30 S

Nomenclature	Part Number	Serial Number	Date	Engine Total		Date	This Item	Reason
				Time	TSO			
Compressor	23005250	90287	4-16-84	634.35	NEW	14 AUG 94	2748.5 HRS 4549.0 CYC	NEW
Turbine	23004540	90572	4-16-84	634.35	NEW	12-28-84	1063.35	NEW
Gearbox	23005652	90286	4-16-84	634.35	NEW	19-5-97	1948.8 1691	NEW
Fuel Pump	6896810	0389	4-16-84	634.35	NEW			Working Meter
Fuel Control	23003140	331580	4-16-84	634.35	NEW	8-09-88	1500.3	OVERHAUL
Governor	23007662	23283	4-16-84	634.35	NEW	9-08-88	1500.8	OVERHAUL
Fuel Nozzle	5233600	AG59383	4-16-84	634.35	NEW	9-08-88	1500.8	OVERHAUL
Bleed Valve	23005366	FF27699	4-16-84	634.35	NEW	9-08-88	1500.8	OVERHAUL
TURBINE	23004540	90572	12-28-84	1063.35	NEW	8-09-88	1500.8	OVERHAUL
TURBINE	23004540	90572	6-26-86	1500.00	NEW	6-26-86	1500.0	OVERHAUL
TURBINE	23004540	90572	10-23-88	1500.3	NEW	9-08-88	1500.3	OVERHAUL
FUEL PUMP	6896810	0026	10-23-88	1500.3	NEW	2/23/88	1801.37	REPAIR
FUEL CONTROL	23007662	332712	10-23-88	1500.3	NEW	18/5/88	1901.37	GOOD

REMOVED

INSTALLED

ASSEMBLY RECORD ENGINE ASSEMBLY

REMOVED

Part		Number	Serial Number	Date	Engine Total Time	This Item TSO	Reason		
P. I. GOVERNOR	22002874	22045	10-23-86	1800.00	0.0	27/11/88	1860.00	359.30	1860.00
			10-23-86	1800.00	0.0	27/11/88	1860.00	359.30	1860.00
			10-23-86	1800.00	0.0	27/11/88	1860.00	359.30	1860.00
			10-23-86	1800.00	0.0	27/11/88	1860.00	359.30	1860.00
FEED VALVE	23006388	FE48811	10-23-86	1801.37	0.0	27/11/88	1801.37	0.0	1801.37
			10-23-86	1801.37	0.0	27/11/88	1801.37	0.0	1801.37
			10-23-86	1801.37	0.0	27/11/88	1801.37	0.0	1801.37
			10-23-86	1801.37	0.0	27/11/88	1801.37	0.0	1801.37
FEED VALVE	23005366	FE48811	10-23-86	1801.37	0.0	27/11/88	1801.37	0.0	1801.37
			10-23-86	1801.37	0.0	27/11/88	1801.37	0.0	1801.37
			10-23-86	1801.37	0.0	27/11/88	1801.37	0.0	1801.37
			10-23-86	1801.37	0.0	27/11/88	1801.37	0.0	1801.37
FEED VALVE	23005366	FE48811	10-23-86	1801.37	0.0	27/11/88	1801.37	0.0	1801.37
			10-23-86	1801.37	0.0	27/11/88	1801.37	0.0	1801.37
			10-23-86	1801.37	0.0	27/11/88	1801.37	0.0	1801.37
			10-23-86	1801.37	0.0	27/11/88	1801.37	0.0	1801.37
FEED VALVE	23005366	FE48811	10-23-86	1801.37	0.0	27/11/88	1801.37	0.0	1801.37
			10-23-86	1801.37	0.0	27/11/88	1801.37	0.0	1801.37
			10-23-86	1801.37	0.0	27/11/88	1801.37	0.0	1801.37
			10-23-86	1801.37	0.0	27/11/88	1801.37	0.0	1801.37
FEED VALVE	23005366	FE48811	10-23-86	1801.37	0.0	27/11/88	1801.37	0.0	1801.37
			10-23-86	1801.37	0.0	27/11/88	1801.37	0.0	1801.37
			10-23-86	1801.37	0.0	27/11/88	1801.37	0.0	1801.37
			10-23-86	1801.37	0.0	27/11/88	1801.37	0.0	1801.37

FORM 785A (BACK)

ASSEMBLY RECORD

ENGINE ASSEMBLY

Engine Serial Number **8903815** Engine Model **250-C30S**

Nomenclature	Part Number	Serial Number	Date	INSTALLED		REMOVED	
				Engine Total Time	TSO	Engine Total Time	TSO
Blood Valve	2300586	1926/10	27.02.89	1945.5	0.0	19/02/89	2096:02/150:52
Gobernador	2300387	27637	20/11/89	1948:30	643:56	13/NOV/89	2096:02/824:28
Blood Valve	2300586	27637	23/10/89	2086:25	205:33	05MAR95	2964.5
Gobernador	2300387	27645	16 Nov 89	2296:25	475:42		
FUEL CONTROL	2303384	334154	9-III-90	2136:00	190:30	13-V-90	2237.55
FUEL CONTROL	2300912	331569	10-X-90	2408:40	452:10	4-11-92	2558:50
Gobernador	2300787	27645				1-II-91	2544:00
Gobernador	2300787	20659	1-II-91	DESC.	169:11	02/08/92	1554:50
FUEL CONTROL	2303384	331569	20/11/89	2553:50	0:0	02/02/92	2964:50
FUEL/RUMP	6890810	0423	03/5/89	2556:50	191:00	08-04-11-93	3854:45

Reason
This Item
Engine Total
Date
This Item
Date
TSO
REMOVED

ASSEMBLY RECORD ENGINE ASSEMBLY

Nomenclature	Part Number	Serial Number	INSTALLED			REMOVED		
			Date	Engine Total Time	This Item TSO	Date	Engine Total Time	This Item TSO
Fuel Pump	6896810	0232	19 MAR 58	2564:50	1369:27	17.8.94	2750.3	1565.0
GOVERNOR	23007862	25173	19 MAR 58	2564:50	1413:41	2.9 JULY 1995	3139.8	1998.7
Fuel Control	23003140	33542	09 APR 94	2647:4	1251:4	03 DEC 95	2890.8	1494.8
OVERPRESSOR	23005250	02108	11 APR 94	2748.5	NEW	11.5.97	3248.0	2005.5
Fuel Pump	6896810	0311	17.8.94	2750.3	1593:1	17.8.94	2750.3	1593:1
Fuel Pump	6896810	0135	17.8.94	2750.3	6.2	11.5.97	3248.0	1104.7
Fuel Control	2524745-14	33215	03 FEB 95	2890.8	686.5	03 SEP 95	3198.3	1542.0
Feed Valve	23005366	FF36816	25 MAR 95	2964.5	956.8	13.9.96	5505.7	994.0
GOVERNOR	23006268	25137	20 JUL 1995	3139.8	394.5	3.10.95	3203.3	1498.0
Nozzle	6899001	HC77313	11 FEB 94	2676.0	212.6	6 AUG 95	3158.3	799.9
Nozzle	6899001	HC66260	5 AUG 95	3158.3	26.5	11.5.97	3248.0	717.0
CONTROL	68993088	325051	03 SEP 95	3198.3	1358.8	02 DEC 95	3270.7	6091
GOVERNOR	23007874	19281	3.10.95	3203.4	1475.3	6 MAR 97	3728.2	612.0
Fuel Valve	23005710	06572	20 MAR 89	1948.5	0.0	03 SEP 95	3203.1	6091
Fuel Valve	23031935	02002	3001.95	3203.1	3844.4	18.1.97	3654.2	6091
GOVERNOR	23007874	19281	3.10.95	3203.4	1475.3	6 MAR 97	3728.2	612.0
Fuel Valve	23005710	06572	20 MAR 89	1948.5	0.0	03 SEP 95	3203.1	6091
Fuel Valve	23031935	02002	3001.95	3203.1	3844.4	18.1.97	3654.2	6091
GOVERNOR	23007874	19281	3.10.95	3203.4	1475.3	6 MAR 97	3728.2	612.0
Fuel Valve	23005710	06572	20 MAR 89	1948.5	0.0	03 SEP 95	3203.1	6091
Fuel Valve	23031935	02002	3001.95	3203.1	3844.4	18.1.97	3654.2	6091

TSO FROM
P/S FROM
ENG 514 89

ASSEMBLY RECORD
ENGINE ASSEMBLY

Engine Serial Number QNE8903815

Engine Model 850-CBOS

Nomenclature	Part Number	Serial Number	INSTALLED		REMOVED	
			Date	Engine Total Hrs	Date	Engine Total Hrs
FUEL CONTROL	33065146	337108	15 SEP 00	10118.2	16 FEB 01	10349.9
FUEL NOZZLE	6899001	A66260	15 SEP 00	10118.2	16 FEB 01	10349.9
FUEL PUMP	6896810	T0252	15 SEP 00	10118.2	16 FEB 01	10349.9
GOVERNOR	33007874	26924	15 SEP 00	10118.2	16 FEB 01	10349.9
BLEED VALVE	33005366	F30423	15 SEP 00	10118.2	16 FEB 01	10349.9
LOW PRESS. SW	33052370	QAT90648	15 SEP 00	10118.2	16 FEB 01	10349.9
STARTER	33008586	QAG90480	15 SEP 00	10118.2	16 FEB 01	10349.9
TURBINE	33031936	QAT90240	15 SEP 00	10118.2	16 FEB 01	10349.9
BLEED VALVE	33005366	FT36961	15 SEP 00	10118.2	16 FEB 01	10349.9
FUEL NOZZLE	6899001	0695	30 SEP 00	10149.3	16 FEB 01	10349.9
FUEL PUMP	6896810	T0018	16 DEC 00	10257.9	16 FEB 01	10349.9

Reason This Item TSO

2785A(11-77)

ASSEMBLY RECORD ENGINE ASSEMBLY

Engine Serial Number CP# 890 3818 Engine Model 250-C305

Nomenclature	Part Number	Serial Number	Date		Time		This Item	Date	Time		This Item	Reason
			Inst	Rem	Inst	Rem			Inst	Rem		
Fuel Control	2304412	33708	197802	117897	5371.4	1469.7	117803	12456.1	2136.1	197802	1600.9	W/ENG & THROTTLE RETURNED TO 890017
Fuel Pump	689810	10018	197802	117897	5376.4	934.5	117803	12456.1	2136.1	197802	1600.9	W/ENG & THROTTLE RETURNED TO 890017
Fuel Nozzle	6899001	0695	197802	117897	5376.4	1361.7	117803	12456.1	2136.1	197802	1600.9	W/ENG & THROTTLE RETURNED TO 890017
Bleed Valve	23005366	197802	117897	100.0	117897	100.0	117803	12456.1	2136.1	197802	1600.9	W/ENG & THROTTLE RETURNED TO 890017
GOVERNOR	83070106	BR3613	253UN02	12026.1	0.0	0.0	117803	12456.1	2136.1	197802	1600.9	W/ENG & THROTTLE RETURNED TO 890017
FUEL NOZZLE	6899001	55132	203UN03	12426.6	0.0	0.0	117803	12456.1	2136.1	197802	1600.9	W/ENG & THROTTLE RETURNED TO 890017
COMPRESSOR	23057643	90648	APRIL 17/03	APRIL 17/03	APRIL 17/03	5333.9	304PR04	13547.3	6630.8	197802	1600.9	W/ENG & THROTTLE RETURNED TO 890017
GEARBOX	23035179	907975	APRIL 17/03	APRIL 17/03	APRIL 17/03	10477.2	304PR04	13547.3	1164.6	197802	1600.9	W/ENG & THROTTLE RETURNED TO 890017
TURBINE	23033195	90063	APRIL 17/03	APRIL 17/03	APRIL 17/03	6051.9	304PR04	13547.3	1292.8	197802	1600.9	W/ENG & THROTTLE RETURNED TO 890017
Bleed Valve	23005366	FE42799	APRIL 17/03	APRIL 17/03	APRIL 17/03	1142.0	195PR03	17144.0	1405.6	197802	1600.9	W/ENG & THROTTLE RETURNED TO 890017
Fuel Control	23070613	8852406	APRIL 17/03	APRIL 17/03	APRIL 17/03	872.2	304PR04	13547.3	1564.1	197802	1600.9	W/ENG & THROTTLE RETURNED TO 890017
Fuel Pump	689810	10176	APRIL 17/03	APRIL 17/03	APRIL 17/03	1608.3	304PR04	13547.3	2295.2	197802	1600.9	W/ENG & THROTTLE RETURNED TO 890017
RT Governor	23070101	29579	APRIL 17/03	APRIL 17/03	APRIL 17/03	16860.4	304PR04	13547.3	6834.3	197802	1600.9	W/ENG & THROTTLE RETURNED TO 890017

INSTALLED REMOVED

ASSEMBLY RECORD

ENGINE ASSEMBLY

Engine Model 6305

Engine Serial Number CAE 890381

Nomenclature	Part Number	Serial Number	Date		This Item		REMOVED	
			Engine Total	MP Time	Engine Total	MP Time	TSO	This Item
Fuel Nozzle	6899001	0680	07 JAN 63	MP 1.62	0.0	0.0	0.0	Reason
OVERFLOW	2524692-11	BR 249	13 AUG 63	MP 17.05	0.0	0.0	0.0	Reason
LEAD LINE	23073353	FR 6689	19 SEP 63	1714.0	0.0	0.0	0.0	Reason
EXHAUSTOR	2524692-11	29579	05 NOV 63	1724.3	0.0	0.0	0.0	Reason
VALVE	23077017	HR 68725	09 JAN 64	1735.3	0.0	0.0	0.0	Reason
VALVE	2307010	27611	08 MAR 64	1744.0	671.1	0.0	0.0	Reason
INJECTOR	23051643	90648	16 JUN 64	6241.6	30 APR 64	30 APR 64	30 APR 64	Reason
CRANK	2303779	90797	16 JUN 64	ENGR 6229.7	15 NOV 65	15 NOV 65	15 NOV 65	Reason
CRANK	2303528	92888	16 JUN 64	ENGR 6229.7	15 NOV 65	15 NOV 65	15 NOV 65	Reason
VALVE	2307010	27611	16 JUN 64	ENGR 6229.7	15 NOV 65	15 NOV 65	15 NOV 65	Reason
VALVE	2524692-6	2307010	16 JUN 64	ENGR 6229.7	15 NOV 65	15 NOV 65	15 NOV 65	Reason
VALVE	2307013	HR 52406	16 JUN 64	ENGR 6229.7	15 NOV 65	15 NOV 65	15 NOV 65	Reason
VALVE	6896810	10176	16 JUN 64	ENGR 6229.7	15 NOV 65	15 NOV 65	15 NOV 65	Reason



Assembly Record Engine Assembly

Part V

Page No. 12

Engine Model 250-C305

Engine Serial Number CAF-890381

Nomenclature	Part Number	Serial Number	Installed		Removed	
			Date	Time	Date	Time
FUEL PUMP	6876210	10176	14 APR 81	7297.0	13 FEB 77	7876.6
FUEL NOZZLE	2307202	11809443	14 APR 81	7297.0	14 APR 81	7949.9
BLEED VALVE	2307353	FF3664	14 APR 81	7297.0	12 APR 78	1520.5
FUEL PUMP	6896810	72350	14 APR 81	7297.0	18 JUL 78	3408.9
FUEL NOZZLE	23077067	0884	14 APR 81	7297.0	11 JUL 78	1496.7
CONSTRUCTION PLUMB	2306675	24947	14 APR 81	7297.0	28 APR 77	5714.3
COMBUSTION PLUMB	23014475	21582	14 APR 81	7297.0	11 JUN 78	589.3
GOVERNOR	2524622-11	28914	14 APR 81	7297.0	11 JUN 78	9303.6
FUEL CONTROL UNIT	2549022-6	334545	14 APR 81	7297.0	11 JUN 78	176.4
Bleed Valve	2307353	FF54110	14 APR 81	7297.0	15 JUL 79	815.5

Assembly Record
Engine Assembly

Nomenclature	Part Number	Serial Number	Date		Reason
			Installed	Removed	
Fuel Nozzle	23070101 (254462-11)	28914	4 APR 08	28 NOV 08	Almost limit
COMPRESSOR	23051643	CAC-90648	19 AUG 08	15 JUL 09	METAL
SEARBOX	23035179	CAG-90208	19 AUG 08	15 JUL 09	METAL
TURBINE	23035128	CAT-95498	19 AUG 08	15 JUL 09	METAL
FUEL NOZZLE	23077067	0284	19 AUG 08	27 APR 09	Timmy
COMBUSTION LINK	23046675	24744	19 AUG 08	10 JUN 09	When beyond limit
FUEL CONTROL	23070613	329810	19 AUG 08	15 JUL 09	OH
Fuel Pump	10910810	70159	03 MAR 08	15 JUL 09	
GOVERNOR	23070106	84480051	02 MAR 08	15 JUL 09	
Fuel Nozzle	23077067	0284	19 AUG 08	27 APR 09	REPAIR

**Assembly Record
Engine Assembly**

Reason	Removed		Installed		Serial Number	Part Number	Nomenclature
	Eng II	Date	Eng II	Date			
EXCHANGE	9968.7	15 July 09	0.0	10 June 2009	229811	23070613	Injection Liner
	74.2						
	9968.7		9968.7	3 SEPT. 09	FF57116	23073353	BLEED VALVE
			9968.7	3 SEPT. 09	FF57116	23073353	BLEED VALVE
	9968.7		9968.7	3 SEPT. 09	FF57116	23073353	BLEED VALVE
			9968.7	3 SEPT. 09	FF57116	23073353	BLEED VALVE
	9968.7		9968.7	3 SEPT. 09	FF57116	23073353	BLEED VALVE
			9968.7	3 SEPT. 09	FF57116	23073353	BLEED VALVE
	9968.7		9968.7	3 SEPT. 09	FF57116	23073353	BLEED VALVE
			9968.7	3 SEPT. 09	FF57116	23073353	BLEED VALVE
	9968.7		9968.7	3 SEPT. 09	FF57116	23073353	BLEED VALVE
			9968.7	3 SEPT. 09	FF57116	23073353	BLEED VALVE
Due for OIL	10564.1	14 Oct 09	10564.1	14 Oct 09	FF30310	23073353	Bleed Valve
	1410.9		1410.9		FF30310	23073353	Bleed Valve
Leak	10023.1	Foot of	10023.1	Foot of	FF30310	23073353	Bleed Valve
	58.4		58.4		FF30310	23073353	Bleed Valve
TEST	1162.3	19 MAY 17	1162.3	19 MAY 17	FF30310	23073353	Bleed Valve
	1135.2		1135.2		FF30310	23073353	Bleed Valve
TEST	598.2	19 MAY 17	598.2	19 MAY 17	FF30310	23073353	Bleed Valve
					FF30310	23073353	Bleed Valve

2785A(12/98)

Assembly Record
Engine Assembly

Nomenclature	Part Number	Serial Number	Date		Reason
			Installed	Removed	
FEED VALVE	23073353	FF30310	31 MAY 17	1162.3 598.2	
FUEL CONTROL	23087146	326911	31 MAY 17	1162.3 1135.2	

Received		Transferred/Shipped		
Organization	Date	Compressor Time	To	From
		Total		
		8861.3	C.H.L.	S.A.L
		524		

SEP 12 2000

Compressor Serial Number CAC-90451

Engine Model 250-430S

Transfer Record



Rolls-Royce

Part II Page No. 2

MODIFICATION RECORD COMPRESSOR ASSEMBLY

FORM 2783B-1 (4-79)

Compressor Serial Number CAC - 90451 Engine Model 250-030S

Compliance Date	Bulletin or Directive No.	Title	Signature	Organization
12-26-85	QCB 72-3012	Injecter seat gasket modify	<i>Tom Miller</i>	Keystone
2-26-85	QCB 72-3016	New No. 1 bearing and nut		Keystone
2-26-85	QCB 72-3078	Rear support and oilseal indexing		Keystone
12-26-85	QCB 72-3100	Spur adapter gears replace		Keystone
12-26-85	QCB 72-3062	Injecter impeller, splined adapter		Keystone
12-26-85	AD85-25-08	Replace compressor mount with new		Keystone
12-26-85	QCB 72-3059	2-bearring modification	<i>Tom Miller</i>	Keystone
11-11-86	40 85-25-08	M/T Dr. to Repl. C/O. CER 72-3085	<i>J. D. Hall</i>	Keystone
11-14-86	CEBA 23-3072	TRIP OF R. VALVE TO	<i>Tom Miller</i>	Keystone
8-25-90	QCB 72-3176	ACT Dam. Performance Improvement	<i>Tom Miller</i>	Keystone

MODIFICATION RECORD COMPRESSOR ASSEMBLY

Part III
Page No. 5-2

Compressor Serial Number CAC - 90451 Engine Model 250-60S

Compliance Date	Subject or Directive No.	Title	Signature	Organization
8-25-90	CS17-3062-R-1	Rotor and splined shaft - inspect	<i>[Signature]</i>	RES. CRS. 117-100
22 Aug. 96	CEB 72-3158R3	No. 5 labyrinth seal - modify location	<i>[Signature]</i>	
22 Aug. 96	CEB 72-3170R2	No. 1 oil damped roller bearing - inspect	<i>[Signature]</i>	
22 Aug. 96	CEB 72-3171R2	Alternate comp. shaft housing - confirm		
22 Aug. 96	CEB 72-3200R2	Removk of compressor front support		
22 Aug. 96		housing - increased number of lead slots		
22 Aug. 96		and new contour		
22 Aug. 96	CSL A-3062R4	Transp. of comp rotor & splined adapter		
22 Aug. 96	CSL A-3066R2	NI-shafting inspection		
22 Aug. 96	CSL 8068R2	ATI:son assumed engine		
22 Aug. 96	CEB 72-3066R2	72-3093R2 AD 84-24-84R2 and		
AD 66-19-12		AE on ACRD W/OA 96-351321		
CSL 0-3062R4		Control with <i>[Signature]</i>		
CSL 7-3062R4		50 CR4 8801		

ACRO AEROSPACE



Log page E 48426

135-15-045

MODIFICATION RECORD COMPRESSOR ASSEMBLY

Compressor Serial Number *(CNC-9045)* Engine Model *250-C305*

Compliance Date	Bulletin or Directive No.	Title	Signature	Organization
15 Nov 03	081-A-3066	2) Shifting Impellers	<i>[Signature]</i>	SAT-AMO-22-58
August 6, 2003	081-A-3066	Inspect Compressor After Spin	<i>[Signature]</i>	SAT-AMO-22-58
August 6, 2003	081-A-3066	Adapter	<i>[Signature]</i>	SAT-AMO-22-58
August 6, 2003	081-A-3066	N.E. Shifting Impeller	<i>[Signature]</i>	SAT-AMO-22-58
August 6, 2003	081-A-3066	XRT 268 Shim & Coating	<i>[Signature]</i>	SAT-AMO-22-58
August 6, 2003	081-A-3066	New Comp. Rotor Assy (known as supply item)	<i>[Signature]</i>	SAT-AMO-22-58
July 11, 2003	081-A-3066	Temp. St. Comp. Rotor Spin & Adaption	<i>[Signature]</i>	SAT-AMO-22-58
July 11, 2003	081-A-3066	N.W. Shifting Impeller	<i>[Signature]</i>	SAT-AMO-22-58
JAN 02 2001	081-A-3066	N. SHIFTING IMPELLER	<i>[Signature]</i>	SAT-AMO-22-58
JAN 02 2001	081-A-3066	COMPRESSOR INSPECT #2 BRG LOCK	<i>[Signature]</i>	SAT-AMO-22-58
JAN 02 2001	081-A-3066	KEY SHOT BRG	<i>[Signature]</i>	SAT-AMO-22-58
SEP 02 2000	081-A-3066	WELD FOUND RIM/DIPS	<i>[Signature]</i>	SAT-AMO-22-58
SEP 02 2000	081-A-3066	INSPECT COMPRESSOR Rotor Spin & Adaption	<i>[Signature]</i>	SAT-AMO-22-58
Aug 26 2009	081-A-3066	INSPECT THE LOCKS GOOD	<i>[Signature]</i>	SAT-AMO-22-58
Aug 26 2009	081-A-3066	INSPECT Rotor Spin & Adaption	<i>[Signature]</i>	SAT-AMO-22-58
Aug 26 2009	081-A-3066	INSPECT THE LOCKS GOOD	<i>[Signature]</i>	SAT-AMO-22-58

INSPECTION - MAINTENANCE - OVERHAUL RECORD

COMPRESSOR ASSEMBLY

FORM 2784B-1 (4-79)
Compressor Serial Number 90431

Engine Model 250-630S

Part IV
Page No. 7

Date	Compressor Time	Since OH	Total	Remarks	Signature	Organization	Compressor	
							Cycles	Gallons
12-26-85	173.5			Inspected, repaired, updated, and registered per manufacturer's specifications.	<i>[Signature]</i>	KeyStone	941.00	1100

This certifies that only the work requested by the customer and described in our work order listed below, was accomplished and inspected in accordance with manufacturer's specifications and with current Federal Aviation Administration regulations, and is approved for return to service. Pertinent details of this repair are on file at this agency under:

W.O. No. ED801 Date 12-26-85
 Signed Tom Hoffa for _____
 KEYSTONE HELICOPTER CORPORATION
 1420 PHOENIXVILLE PIKE
 WEST CHESTER, PA 19380
 CRS No. 1211

INSPECTION - MAINTENANCE - OVERHAUL RECORD

COMPRESSOR ASSEMBLY

Compressor Serial Number: 90451 Engine Model: 250-C9S

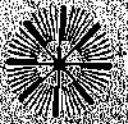
Date	Compressor Time Since OH	Remarks	Signature	Organization
5-10-90	1806.7	Inspected, repaired, and tested per	<i>[Signature]</i>	Keystone
	Cycles: 2470	Manufacturer's specifications, C/M		
	Counters: 2781	1500 hr. inspections per C9S O & M Manual Rev. 1 dated Feb. 1/90.		
		CRS 117-100		

The Powerplant and/or component identified herein was repaired and inspected in accordance with current Federal Aviation Administration Regulations, and was found Air-worthy for return to service. Pertinent details of the repairs are on file at this Agency under:

W.O. No. E0059 Date 5-10-90

Signed Thomas J. [Signature] for

KEYSTONE ENGINE SERVICES
 1420 PHOENIXVILLE PIKE
 WEST CHESTER, PA 19380
 A Division of Keystone Helicopter Corp.
 CRS No. 117-100



KEYSTONE HELICOPTER SERVICES
1420 PHOENIXVILLE PIKE, WEST CHESTER, PA 19380

INSPECTION - MAINTENANCE OVERHAUL RECORD COMPRESSOR ASSEMBLY

Part IV
Page No. 3

Compressor Serial Number CAC-90451 Engine Model 250-930S

Date	Compressor Time	Since OH	Total	Remarks	Signature	Organization	Keystone	
							Engine	Services
8-25-90	1837.8			Inspected, repaired, updated per CEP 77-3176, and tested per Allison specifications. Inspected NI solines per the C305 O & M Manual.	<i>[Signature]</i>	Keystone Services	Engine	CRS 117-100

The Powerplant and/or component identified herein was repaired and inspected in accordance with current Federal Aviation Administration Regulations, and was found Air-worthy for return to service. Pertinent details of the repairs are on file at this Agency under:

W.O. No. E0161 Date 8-25-90
Signed Thomas Ruffe for _____

KEYSTONE ENGINE SERVICES
1420 PHOENIXVILLE PIKE
WEST CHESTER, PA 19380
A Division of Keystone Helicopter Corp.
CRS No. 117-100

INSPECTION - MAINTENANCE - OVERHAUL RECORD

COMPRESSOR ASSEMBLY

Compressor Serial Number: CAC-90451 Engine Model: 250-C905

Part No. 12157
 HARB. NO. 5

Date	Compressor Time	Since Oil	Work	Remarks	Signature	Organization
22 Aug 96	5109.7	NP	5109.7	Compressor replaced with 14M3-1750		
3 Oct 98	8241.1	NP	8241.1	Compressor replaced with 14M3-1750		
	51159.3		51159.3	ACRO Aerospace Ltd. / 98-09477		

ACRO AEROSPACE

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 Winnipeg, Manitoba
 Canada R3H 1A1
 Phone: 204-788-2693

STANDARD AERO

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LW-422725. TSO-NP, TSN-59622, CSO-NP, CSN-1140
 WORK PERFORMED ARE ON FILE AT THIS ORGANIZATION UNDER WORK ORDER
 JAA ACCEPTANCE CERTIFICATE JAA.7059). ALL PERTINENT DETAILS OF THE
 BASIS IN ACCORDANCE WITH CAR-571, FAR PART 43.17, AND JAR145 (REFERENCE
 RELEASED SERVICEABLE FOR RETURN TO SERVICE ON A TIME CONTINUED
 RULES OF THE CANADIAN AVIATION REGULATIONS. THE PRODUCT IS
 14W3 2nd Edition 8th Revision dated 1/NOV/01 AND THE CURRENT MAINTENANCE
 INSPECTION, CS1-A-3066,) AND TESTED IN ACCORDANCE WITH ROLLS ROYCE
 COMPRESSOR CAC-90451 HAS BEEN REPAIRED. (COMPRESSOR SERVICEABILITY

12157
 12157

INSPECTION - MAINTENANCE - OVERHAUL RECORD

COMPRESSION ASSEMBLY

FORM 2788-B (REV. 1974)

Compressor (Type) _____
 Date _____

Shop Order No. _____

Engine No. _____

Serial No. _____

Model No. _____

Manufacturer _____

Part No. _____

Page No. _____

Part IV

STANDARD AERO

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 Winnipeg, Manitoba
 Canada R3H 1A1
 Phone: 204-788-2693

Compressor has been repaired for a cracked compressor seal (2000 and 3500 Hour inspections have been complied with) in accordance with Rolls-Royce Model 250-C30 Overhaul Manual 14W3 2nd Ed., 8th Rev., dated November 1, 2001 and the current maintenance rules of the Canadian Aviation Regulations. Compressor Impeller S/N LP60671 R5 has been repaired for damaged Air Spine Chamber in accordance with AMC-OIL 35 4th Rev., Dated February 1, 2002. The following major parts were replaced: Compressor Shroud Housing, Compressor Rotor Spine Adapter, #1 Carbon Seal Assembly and Front Compressor Seal Mating Ring. The product has been released serviceable for return to service, subject to a functional test following installation in accordance with CAR 571, FAR Part 43.17 and JAR 145 (Reference JAA Acceptance Certificate No. JAA 7059). All mandatory modifications and Airworthiness Directives were complied with. All pertinent details of the work performed are on file at this organization under Work Order No. LW443291.



SAL-AMO-2858

Inspection - Maintenance - Overhaul Record

Compressor Assembly



Rolls-Royce

Part IV
Page No. 7

Compressor Serial Number CAC-90451 Engine Model 250-030S

Date	Compressor Time	
	Since OH	Total

Aug 21, 2003
6292.9
n/a
GSN: 12919

Signature and Certificate No.	Remarks	Organization
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STANDARD AERO
www.standardaero.com
33 Allen Dyne Road
Winnipeg, Manitoba
Canada R3H 1A1
Phone: 204-788-2693

Compressor has been installed onto engine S/N CAE 880448 and tested in accordance with Rolls-Royce Model 250-C30 Overhaul Manual 14WV3 2nd Ed., 8th Rev., dated November 1, 2001, and the current maintenance rules of the Canadian Aviation Regulations. The compressor tested serviceable and is approved for return to service in compliance with CAR 571, FAR Part 43.17 and JAR 145 (Reference JAA Acceptance Certificate No. JAA.7059). All mandatory modifications and Airworthiness Directives were complied with. All pertinent details of the work performed are on file at this organization under Work Order No. LW443290.

Double check
SALT
501
SAL-AMO-22-58

Inspection - Maintenance - Overhaul Record

Compressor Assembly



Rolls-Royce

Part IV
Page No. 10

Compressor Serial Number CAC-90451 | Engine Model 250-2305

Date	Compressor Time	Remarks
Since OH	Total	

NEW	8202.1	CSN: 17608
NEW		CSN: 17608

NEW	8202.1	CSN: 17608
NEW		CSN: 17608

Signature _____
and
Certificate No. _____

Organization _____

Remarks

STANDARD AERO
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33 Allen Dyne Road
Winnipeg, Manitoba
Canada R3H 1A1
Phone: 204-788-2693

Compressor Assembly p/n 23051643 s/n CAC90451 has had an external
serviceability inspection performed in accordance with Rolls Royce 250-C30
Maintenance Manual 14W2 6th Ed. 13th Rev. Dated 15/11/06. The product is
released serviceable for return to service, subject to satisfactory
functional test results following installation in the airframe. All pertinent
details of work performed are on file at this organization under Work Order
LW656884.

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Phone: 204-788-2693

Compressor Assembly p/n 23051643 s/n CAC90451 has been installed onto
engine s/n CAE8904465 and tested in accordance with Rolls Royce 250-C30
Overhaul Manual 14W3 2nd Ed. 13th Rev. Dated 01/04/07. The following major
part was replaced: Spur Adapter Gearshaft Assy. The product is released
serviceable for return to service. All pertinent details of work performed are on
file at this organization under Work Order LW656883.

 SAL AMO-22-58 HERBERT PERHAULT	 SAL AMO-22-58 HERBERT PERHAULT
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Inspection - Maintenance - Overhaul Record

Compressor Assembly

Part IV
Page No. 10

Compressor Serial Number CAC-90451 Engine Model 250-C305

Date	Compressor Time		Remarks	Signature and Certificate No.	Organization
	Since OH	Total			

Aug. 07	NEW	8202.1	CSN: 17608		
Aug. 07	NEW	8202.1	CSN: 17608		

STANDARD AERO
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 Winnipeg, Manitoba
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Compressor Assembly p/n 23051643 s/n CAC90451 has had an external serviceability inspection performed in accordance with Rolls Royce 250-C30 Maintenance Manual 14W2 6th Ed. 13th Rev. Dated 15/11/06. The product is released serviceable for return to service, subject to satisfactory functional test results following installation in the airframe. All pertinent details of work performed are on file at this organization under Work Order LW656884.

STANDARD AERO
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 Canada R3H 1A1
 Phone: 204-788-2693
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Compressor Assembly p/n 23051643 s/n CAC90451 has been installed onto engine s/n CAB8904465 and tested in accordance with Rolls Royce 250-C30 Overhaul Manual 14W3 2nd Ed. 13th Rev. Dated 01/04/07. The following major part was replaced: Spur Adapter Gearshaft Assy. The product is released serviceable for return to service. All pertinent details of work performed are on file at this organization under Work Order LW656883.

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Compressor Assembly p/n 23051643 s/n CAC90451 has had an external serviceability inspection performed in accordance with Rolls Royce 250-C30 Maintenance Manual 14W2 6th Ed. 13th Rev. Dated 15/11/06. The product is released serviceable for return to service, subject to satisfactory functional test results following installation in the airframe. All pertinent details of work performed are on file at this organization under Work Order LW656884.

STANDARD AERO
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Compressor Assembly p/n 23051643 s/n CAC90451 has been installed onto engine s/n CAB8904465 and tested in accordance with Rolls Royce 250-C30 Overhaul Manual 14W3 2nd Ed. 13th Rev. Dated 01/04/07. The following major part was replaced: Spur Adapter Gearshaft Assy. The product is released serviceable for return to service. All pertinent details of work performed are on file at this organization under Work Order LW656883.

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 Winnipeg, Manitoba
 Canada R3H 1A1
 Phone: 204-788-2693
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Compressor Assembly p/n 23051643 s/n CAC90451 has had an external serviceability inspection performed in accordance with Rolls Royce 250-C30 Maintenance Manual 14W2 6th Ed. 13th Rev. Dated 15/11/06. The product is released serviceable for return to service, subject to satisfactory functional test results following installation in the airframe. All pertinent details of work performed are on file at this organization under Work Order LW656884.

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Compressor Assembly p/n 23051643 s/n CAC90451 has been installed onto engine s/n CAB8904465 and tested in accordance with Rolls Royce 250-C30 Overhaul Manual 14W3 2nd Ed. 13th Rev. Dated 01/04/07. The following major part was replaced: Spur Adapter Gearshaft Assy. The product is released serviceable for return to service. All pertinent details of work performed are on file at this organization under Work Order LW656883.

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Compressor Assembly p/n 23051643 s/n CAC90451 has had an external serviceability inspection performed in accordance with Rolls Royce 250-C30 Maintenance Manual 14W2 6th Ed. 13th Rev. Dated 15/11/06. The product is released serviceable for return to service, subject to satisfactory functional test results following installation in the airframe. All pertinent details of work performed are on file at this organization under Work Order LW656884.

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Compressor Assembly p/n 23051643 s/n CAC90451 has been installed onto engine s/n CAB8904465 and tested in accordance with Rolls Royce 250-C30 Overhaul Manual 14W3 2nd Ed. 13th Rev. Dated 01/04/07. The following major part was replaced: Spur Adapter Gearshaft Assy. The product is released serviceable for return to service. All pertinent details of work performed are on file at this organization under Work Order LW656883.

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SAL-AMO-22-58
 Rebecca
 Perrault
 SAL 661 01

SAL-AMO-22-58
 Rebecca
 Perrault
 SAL 661 01

SAL-AMO-22-58
 Rebecca
 Perrault
 SAL 661 01

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 Perrault
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 Perrault
 SAL 661 01

SAL-AMO-22-58
 Rebecca
 Perrault
 SAL 661 01



Inspection - Maintenance - Overhaul Record - Compressor Assembly

Part V
Page No. 11

Engine Model 250-C305

Compressor Serial Number CAC-90451

Organization	CERVANTES
Signature	ROGER
Certificate No.	SAL-MO-22-58
	1175
	01

33 Allen Dyne Road
Winnipeg, Manitoba
Canada R3H 1A1
Phone: 204-788-2693
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Compressor Assembly p/n 23051643 s/n CAC-90451 has had a 2000 hr. spin inspection performed per CSL-A-3062R6 and Maintenance Manual 14W2 6th Ed. 14th Rev. Dated 15/11/07, a custom contour applied to the shroud housing and impeller was NDT inspected in accordance with Rolls Royce 250-C30 Overhaul Manual 14W3 2nd Ed. 14th Rev. Dated 01/04/08. The product is released serviceable for return to service subject to satisfactory functional test results following installation in the airframe. All pertinent details of the work performed are on file at this organization under Work Order LW711903.

Date	Compressor Time	
	Since OH	Total
P 11 2 2008	NEW	8861.3
	CSN: 18898	
	NEW	8861.3
	CSN: 18898	
	NEW	8861.3
	CSN: 18898	
	NEW	8861.3
	CSN: 18898	

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Phone: 204-788-2693
www.standardaero.com

Compressor Assembly p/n 23051643 s/n CAC-90451 has been installed on engine CAB-890446 and tested in accordance with Rolls Royce 250-C30 Overhaul Manual 14W3 2nd Ed. 14th Rev. Dated 01/04/08. The product has been released as repaired subject to a successful check run and power assurance check in the airframe. All pertinent details of the work performed are on file at this organization under Work Order LW711902.

-2784C (12/98)

Inspection - Maintenance - Overhaul Record

Part IV
Page No. 12

Engine Model 250-6305

Compressor Serial Number CAC-90451

Date	Compressor Time		Remarks	Signature and Certificate No.	Organization
	Since OH	Total			

26 Aug 09
NEW
9313.4
650: NEW
650: 20053

1 SEPT 09
NEW
9313.4
650: NEW
650: 20053

33 Allen Dyne Road
Winnipeg, Manitoba
Canada R3H 1A1
Phone: 204-788-2693



www.standardaero.com

Compressor Assembly p/n 23051643 s/n CAC-90451 has been repaired to correct stalling & has had the 2000 hr spline inspection performed per CSL-A-3062R6 in accordance with Rolls Royce 250-C30 Overhaul Manual 14W3 2nd Ed. 15th Rev. Dated 01/04/09. The following major parts were replaced: Diffuser Vane, Impeller & Scroll. The product is released serviceable for return to service, subject to satisfactory functional test results following installation in the aircraft. All pertinent details of work performed are on file at this organization under Work Order LW741423.

33 Allen Dyne Road
Winnipeg, Manitoba
Canada R3H 1A1
Phone: 204-788-2693



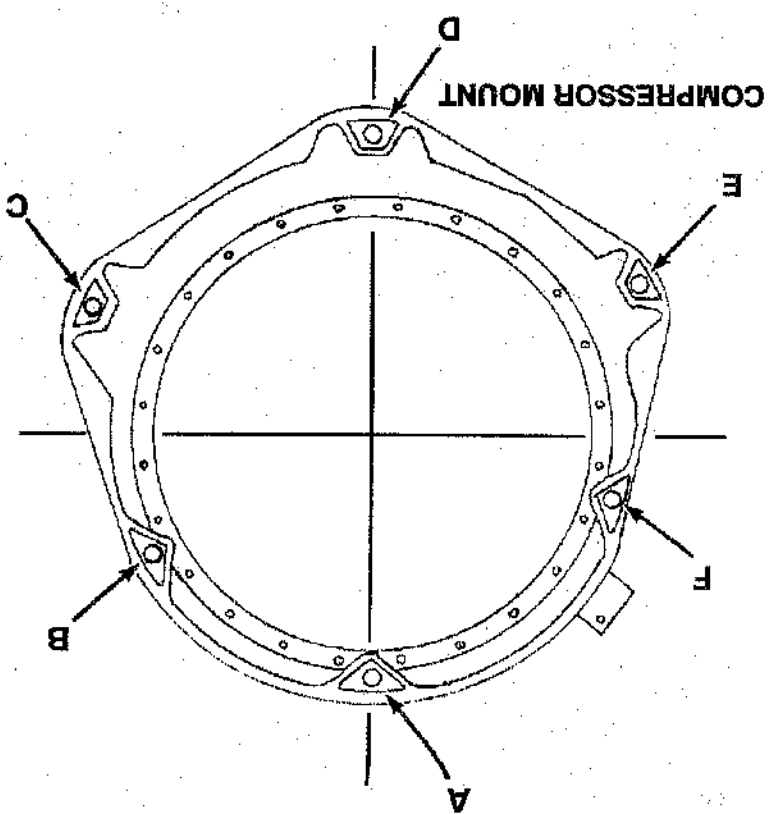
www.standardaero.com

Compressor Assembly p/n 23051643 s/n CAC-90451 has been installed onto engine s/n CAC-890381 & tested in accordance with Rolls Royce 250-C30 Overhaul Manual 14W3 2nd Ed. 15th Rev. Dated 01/04/09. The product is released serviceable for return to service. All pertinent details of work performed are on file at this organization under Work Order LW758708

SAL-AMO-22-58	REBECCA PERRAULT	
SAL-AMO-22-58	REBECCA PERRAULT	

Date	21 AUG 09	Compressor S/N	CAC 90451
SAL W/O	KLD 741423		

Shim Position	Total Shim Thickness
A	.000
B	.000
C	.000
D	.004
E	.000
F	.000



ROLLS-ROYCE 250 SERIES III & IV SHIM NOTICE

STANDARD AERO

SERVICE RECORD GEARBOX ASSEMBLY

Gearbox Serial Number 6AG - 90208 Engine Model 250-C30's

INSTALLED **REMOVED**

Date	Owner	A/C or Eng. S/N	Since OH		Date	Since OH		Reason
			Total	Gearbox Time		Total	Gearbox Time	
8-22-79	<i>W</i>	890203	0.0	0.0	22 Aug 82	No. 82	1705.6	
24 Jan 82	Garwood H. A/F: 3584.7	890203	No. 82	1705.6	22 Aug 82	No. 82	1705.6	
12 Oct 82	A/F: 3584.7 GIMI - OKAN	8906085	0.0	2862.8	A/F: 3733.8	151.1	3013.9	with engine 8906085
22 Feb 86	A/F: 3609.5 GIMS	8906085	151.1	3013.9	15 MAR 86	186.3	3049.1	with eng.
18/1/86	GIMV	8906085	186.3	3049.1	18 AUG 87	1200.3	4063.1	
22 Apr 88	GIMV AIR HHHH	8906085	1200.3	4063.1	04-06-89	2184.3	5047.1	
27-08-89	GIMK 6573.3	8902385	2184.3	5047.1	# 89	2486.3	5349.1	
9-10-89	CHL - GIMV	8902385	2486.3	5349.1	26-11-93	4065.1	6927.9	WITH ENGINE
31-3-94	CHE - GIMS	8902385	4065.1	6927.9	25 MAR 97	5034.1	7946.9	WITH ENGINE
25 MAR 97	CHE GIMR	8902385	5034.1	7946.9	04-5-97	5193.2	8056.0	with engine
7 Nov 97	CHE - GIMV	8902385	5193.2	8056.0	09-11-98	5349.1	8211.9	with engine
04-11-98	CHL GIMB	8902385	5349.1	8211.9	16-5-98	5431.8	8297.6	with engine

TRANSFER RECORD

Gearbox Serial Number CAG - 90208

Engine Model 250-C30S

RECEIVED		SHIPPED	
Date	From	To	Date
8-22-79	DGA-GMC	SIKORSKY AIRCRAFT	8-22-79
2-22-80	SIKORSKY	OKANAGAN	2-22-80
16 June 82	CANADIAN HRS	SAL	16 June 82
24 June 82	SAL	CANADIAN HRS	24 June 82
		No Prev.	No Prev.
		NRW	NRW
		Since OH	Since OH
		Total	Total
		0.0	0.0
		2.3	2.3
		new	new
		1705-6	1705-6
		22 June 82	22 June 82
		SAC	SAC

MODIFICATION RECORD

GEARBOX ASSEMBLY

FORM 2783C-1(4-79)

Gearbox Serial Number CAG - 90208

Engine Model 250-C30 S

Compliance Date	Bulletin or Directive No.	Title	Signature	Organization
N/A To This S/N	AD 79-16-06 Amd. 39-3527 (CEB 72-3003)	Accessory Drive Gear Failure	<i>[Signature]</i>	BEKORSKY AIRCRAFT QUALITY ASSURANCE
24 June 82	CEB 72-3012	Eng., power & accy. g/box pinion brg. oil nozzle - rwk. - Found Embedded	<i>[Signature]</i>	SAC
24 June 82	CEB 72-3060	Found Embedded	<i>[Signature]</i>	SA
19.AUG.85	CEB-72-3012	Rework pinion brg. oil nozzle	<i>[Signature]</i>	OHL
"	-3017	Replace cover assy. turb. support studs	<i>[Signature]</i>	"
"	-3020	Rework spur adapter gearshaft #2; brg journal	<i>[Signature]</i>	"
"	-3022	Replace oil delivery tube	<i>[Signature]</i>	"
"	-3029	Add P.T.O. Gearshaft grooves	<i>[Signature]</i>	"
"	-3039	Replace pinion gear bearing	<i>[Signature]</i>	"
"	-3054	Replace scav. oil transfer tube	<i>[Signature]</i>	"
"	-3055	Inspect oil delivery tube for burrs once only	<i>[Signature]</i>	"

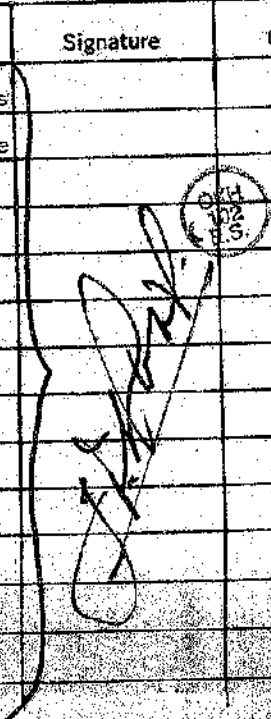
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102
U.S.

MODIFICATION RECORD

GEARBOX ASSEMBLY

FORM 2783C-1(4-79)

Gearbox Serial Number CAG - 90208 Engine Model 250-C30s

Compliance Date	Bulletin or Directive No.	Title	Signature	Organization
19. AUG. 85	CEB-72-3063	Mod P.T.O. gear brg. journal by add. grooves		OHL
"	-3069	Round edges pinion boss gear access aperture		*
"	-3074	Change oil pump attachments bolts		*
"	-3075	Change oil filter diff. pressure indicator		*
"	-3077	Mod. oil trans. tube ports lead-in chamfer		*
"	-3089	New bushing for oil check valve		*
"	-3095	New 26 tooth idler gearshaft brgs.		*
"	-3073	Replace #2 1/2 brg. cage studs		*
"	-3097	Locktite 290 on shaft bores		*
"	-3104	Inspect brg. separator on brgs. by Marlin		*
"		Rockwell corp.		*
"	-3067	Conversion C30 to C30S		*
"	-3098	Replace cover & hsg. mag. plug		OHL
"	ADT85-06-51	Replace magnetic plugs		

MODIFICATION RECORD GEARBOX ASSEMBLY

Gearbox Serial Number CAG-90208

Engine Model 250-C30S

P/N 23005652

Compliance Date	Bulletin or Directive No.	Title	Signature	Organization
22. NOV. 85	CEB-72-3016	Oil pres. ports helical coil inserts - add	<i>[Signature]</i>	OHL
"	-3033	Scav. oil ports helicoil inserts - add		"
"	-3097	Locktite 290 on Shaft Bores		"
"	-3086	Oil press. jet - add 2nd jet hole		"
1 2 NOV 1987	AD84-24-54	ENGINE MODS FIE EV25218.		<i>[Signature]</i>
1 2 NOV 1987	CEB 72-3043	NO 3+4 AREA GAGE "ENLARGE GEAR ACCESS APERTURE FIE EV25218	OHL	
1 2 NOV 1987	CEB 72-3066	FLIGHT APPROVED COVERS FIE EV25218	"	
1 2 NOV 1987	CEB 72-3075	OIL FILTER DIFFERENTIAL PRESS IND. RPLC	"	
1 2 NOV 1987	CEB 72-3097	OIL PUMP COVER "LOCTITE SHAFTS	"	
1 2 NOV 1987	CEB 72-3145	ENK G.B. COVER FOR NEW FCU + OP GEARSHAFTS	"	
1 2 NOV 1987	CEB 72-3121	IMPROVE THROUGH BOLT FOR IDLER GEAR	"	
1 JUL 89	CEB 72-3097	OIL PUMP COVER - LOCTITE SHAFTS. EMB	"	
1 11 80			"	
1 11 80			"	

ORH
02
ES

ORH
02
ES

OHL

MODIFICATION RECORD

GEARBOX ASSEMBLY

Gearbox Serial Number CAG-90208

Engine Model 250-C30S

Compliance Date	Bulletin or Directive No.	Title	Signature	Organization
1 JUL '89	CEB 72-3123	OIL TRANSFER TUBES. EMB	<i>[Signature]</i>	CHL
1 JUL '89	CEB 72-3167	GB TORQUEMETER SHAFT NUT AREA EMB	<i>[Signature]</i>	CHL
21 Mar. 94	CEB 72-3154 R2	Oil filter housing add bronze bushing to 'oil out', 'oil in', and 'bypass' ports.	<i>[Signature]</i>	CHL
1 Mar. 1994	CEB 72-3177	Oil pump body-inspection and rework.	<i>[Signature]</i>	CHL
1 Mar. 1994	CEB 72-3013 R1, 72-3158 R2 F/E on 93-07178.		<i>[Signature]</i>	CHL
Nov. 1997	CEB 72-3045	Gearbox housing assy-rod to eliminate interference.	<i>[Signature]</i>	ACRO AEROSPACE INC.
Nov. 1997	CEB 72-3126 R2	Flanged studs for comp. mounting boss.	<i>[Signature]</i>	ACRO AEROSPACE INC.
Sept. 2000	CEB 72-3086 and AD 84-24-54 R2 found embodied.		<i>[Signature]</i>	ACRO AEROSPACE INC.
Sept. 2000	CEB 72-3097	Scavenge oil pump cover assy-add loctite to gearshafts.	<i>[Signature]</i>	ACRO AEROSPACE INC.
Sept. 2000	CEB 72-3193 R3	Install new #3 & 4 roller bearing with tabbed outer race and cage.	<i>[Signature]</i>	ACRO AEROSPACE INC.

Section 1.

250C30S TURBINE ENGINE

Make: Rolls-Royce

Model: 250C30S

Serial Number: CAE-890381

Date of Manufacture:

Log Books sold with engine: Original

Contact for technical inquires:

John Barnes,

Director of Maintenance: 647.428.2148

Cellular: 647.205.3365

jbarnes@ornge.ca

Alternate contact:

Robert Zwanenburg,

Manager of Maintenance Planning/Analysis: 613.240.5331

Cellular 613.240.5331

rzwanenburg@ornge.ca

Section 2:

Information & Specifications:

Total Engine Time Since New: 11162.3 Hours

Total Engine Cycles Since New: 21534 Cycles

Times and Cycles as of: July 11, 2017

Section 3.

Engine- Maintenance and Inspections

Make: - Rolls-Royce

Model: 250C30S

Engine S/N	CAE-890381			
TSN: 11162.3			TSO: 9216.8*	
CSN: 21534			CSO: U/K*	
<u>LAST MAJOR INSPECTION</u>		<u>LAST COMPLETED</u>		<u>Count Remaining</u>
Engine Overhaul (On-Condition Modular Engine)		27 Feb 1989*		N/A
300-Hour Engine Inspection		29 Jul 2011		181.1 Hours
Turbine Overhaul		02 Sep 2009		806.4 Hours 3224 Cycles
<u>Life Limited Parts</u>		<u>Part Number</u>	<u>Hours Remaining</u>	<u>Cycle Remaining</u>
COMPRESSOR ASSEMBLY	On-Condition	23051643	o/c	o/c
Impeller: Compressor	Retirement	23076537	13806.40	22224
TURBINE ASSEMBLY	Overhaul	23035128	806.4**	3224**
First Stage Wheel	Retirement	23053299	831.4	224
Second Stage Wheel	Retirement	23032280	831.4	224
Third Stage Wheel	Retirement	6898663	3356.40	3224
Fourth Stage Wheel	Retirement	23066744	3356.40	3224
GEARBOX ASSEMBLY	On-Condition	23035179	o/c	o/c
Fuel Pump	Overhaul	6896810	708.4	n/a
Fuel Nozzle	Overhaul	23077067	624.4	n/a
Fuel Control Unit	Overhaul	23087146	1364.8	n/a
PT Governor	Overhaul	23070106	331.8	n/a
PT Governor	CEB-73-3139	23070106	100.00	n/a
Bleed Valve	Overhaul	23073353	901.8	n/a

Notes:

- * 250 Series engine are modular On-Condition Assembly and not subject to a Scheduled Overhaul.
The Compressor and Gearbox are on-condition and the Turbine assembly is subject to an Overhaul interval
- ** The Turbine Overhaul on the Rolls-Royce 250C30S Series engines are operated with a 6000 Cycle OH interval and approved in accordance with Rolls-Royce Letter CNA0137-REH-01-2012.
Engine is otherwise subject to the 2000 Hour Overhaul interval.



Installed Parts & Tasks Report

ORNGE GLOBAL AIR
5310 Explorer Drive,,
Mississauga,
ON, Canada

Installed Parts & Tasks

Root Part#/Serial#: Times : 11162.18 FH Cycles

Part # / Serial # Part Description Position Code	Level Code/Attach Data/ Days Root Part # / Root Serial # Root Position Code	Since New Since Overhaul	Task # Task Description Maintenance Type	Interval	Remaining
23005290/CAE-890381 ENGINE ASSEMBLY: 250C30S	//- -/-	21534.00 ESTARTS, 11162.30 FH	MC-RR-0150-01 Engine Vibration Data Collection Inspection	600.00 FH	481.10 FH
23005290/CAE-890381 ENGINE ASSEMBLY: 250C30S	//- -/-	21534.00 ESTARTS, 11162.30 FH	MS-RR-0300-01 Replacement Of Engine Oil Inspection	365.00 Days 600.00 FH	-1993.00 Days 579.30 FH
23005290/CAE-890381 ENGINE ASSEMBLY: 250C30S	//- -/-	21534.00 ESTARTS, 11162.30 FH	OGR-M-C30S-009 150-Hour Engine Inspection Inspection	150.00 FH	31.10 FH
23005290/CAE-890381 ENGINE ASSEMBLY: 250C30S	//- -/-	21534.00 ESTARTS, 11162.30 FH	OGR-M-C30S-010 300-Hour Engine Inspection Inspection	300.00 FH	181.10 FH
23005290/CAE-890381 ENGINE ASSEMBLY: 250C30S	//- -/-	21534.00 ESTARTS, 11162.30 FH	OGR-M-C30S-018 2000-Hour Engine Inspection Inspection	2000.00 FH	806.40 FH
23005290/CAE-890381 ENGINE ASSEMBLY: 250C30S	//- -/-	21534.00 ESTARTS, 11162.30 FH	MC-H-76-0025-03 Power Check Inspection	25.00 FH	0.00 FH
23005290/CAE-890381 ENGINE ASSEMBLY: 250C30S	//- -/-	21534.00 ESTARTS, 11162.30 FH	IAM-RR-71-001** Inspection		

Installed Parts & Tasks

Root Part#/Serial# :

Times : 11162:18 FH

Cycles

Part # / Serial # Part Description Position Code	Level Code/Attach Date/Days Root Part # / Root Serial # Root Position Code	Since New Since Overhaul	Task # Task Description Maintenance Type	Interval	Remaining
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Installed Parts & Tasks

Root Part#/Serial#005290 / CAE-890381

Times : 11162.18 FH

Cycles

Part # / Serial # Part Description Position Code	Level/Code/Attach Date/ Days Root Part # / Root Serial # Root Position Code	Since New Since Overhaul	Task # Task Description Maintenance Type	Interval	Remaining
23051643/CAC-90451 COMPRESSOR ASSEMBLY 723000	1.1/1/773 23005290/CAE-890381	22829.00 ESTARTS, 10507.00 FH	MC-RR-2000-01 Compressor Spur Adapter Gear Shaft Inspection	2000.00 FH	806.40 FH
23051643/CAC-90451 COMPRESSOR ASSEMBLY 723000	1.1/1/773 23005290/CAE-890381	22829.00 ESTARTS, 10507.00 FH	MC-RR-2000-03 Compressor Rotor And Splined Adapter Insp Inspection	2000.00 FH	806.40 FH
23076537/JY105818 IMPELLER COMPRESSOR 723020	1.1.1/1/746 23005290/CAE-890381	2776.00 ESTARTS, 1193.60 FH	SD-RR-CI Compressor Impeller Assembly Shop Detailed Inspection	12500.00 FH	11306.40 FH
23076537/JY105818 IMPELLER COMPRESSOR 723020	1.1.1/1/746 23005290/CAE-890381	2776.00 ESTARTS, 1193.60 FH	RL-RR-CI Compressor Impeller Assembly Retirement Life Others	25000.00 ESTARTS, 15000.00 FH	22224.00 ESTARTS, 13806.40 FH
23068676/SL13466A COMBUSTION LINER 724012	1.2/1/773 23005290/CAE-890381	0.00 ESTARTS, 1645.70 FH	OH-CL Combustion Liner Overhaul Overhaul	2000.00 FH	806.40 FH
23035128/CAT-90157 TURBINE ASSEMBLY 725000	1.3/1/773 23005290/CAE-890381	24400.00 ESTARTS, 4601.30 FH	MC-RR-2000-02 Compressor To Turbine Coupling Inspection Inspection	2000.00 FH	806.40 FH
23035128/CAT-90157 TURBINE ASSEMBLY 725000	1.3/1/773 23005290/CAE-890381	24400.00 ESTARTS, 4601.30 FH	OH-RR-TA Turbine Assembly Overhaul Overhaul	6000.00 ESTARTS	3224.00 ESTARTS
23073566/SL13487A 1ST STAGE NOZZLE SHIELD 725011	1.3.1/1/746 23005290/CAE-890381	2776.00 ESTARTS, 1193.60 FH			

Legend - As Required Task

Generated On: 2017/Aug/11 8:48:37

Installed Parts & Tasks

Root Part#/Serial# 23005290 / CAE-890381

Times : 11162:18 FH

Cycles

Part # / Serial # Part Description Position Code	Level Code/Attach Date/ Days Root Part # / Root Serial # Root Position Code	Since New Since Overhaul	Task # Task Description Maintenance Type	Interval	Remaining
23063289/X568742 1ST STAGE WHEEL 725014	1.3.2/11746 23005290/CAE-890381	2776.00 ESTARTS, 1193.60 FH	RL-RR-TW1 First-Stage Turbine Wheel Retirement Life Others	3000.00 ESTARTS, 2025.00 FH	224.00 ESTARTS, 831.40 FH
23032280/X578907 2ND STAGE WHEEL 725022	1.3.3/11746 23005290/CAE-890381	2776.00 ESTARTS, 1193.60 FH, 0.00 N2	RL-RR-TW2 Second-Stage Turbine Wheel Retirement Life Others	3000.00 ESTARTS, 2025.00 FH	224.00 ESTARTS, 831.40 FH
6898663/X565741 3RD STAGE WHEEL 725070	1.3.4/11746 23005290/CAE-890381	2776.00 ESTARTS, 1193.60 FH, 0.00 N2	RL-RR-TW3 Third-Stage Turbine Wheel Retirement Life Others	6000.00 ESTARTS, 4550.00 FH, 6.00 N2	3224.00 ESTARTS, 3356.40 FH, 6.00 N2
23063744/X571209 4TH STAGE TURBINE WHEEL 725074	1.3.5/11746 23005290/CAE-890381	2776.00 ESTARTS, 1193.60 FH, 0.00 N2	RL-RR-TW4 Fourth-Stage Turbine Wheel Retirement Life Others	6000.00 ESTARTS, 4550.00 FH, 6.00 N2	3224.00 ESTARTS, 3356.40 FH, 6.00 N2
23035779/CAG-90208 ENGINE GEARBOX (C30S) 726010	1.4/11773 23005290/CAE-890381	0.00 ESTARTS, 15486.80 FH			
6896810/T0159 FUEL PUMP ASSY 731010	1.5/11773 23005290/CAE-890381	8647.40 FH	OH-RR-FP1 Fuel Pump (Argo Tech or TRW) Overhaul Overhaul	3000.00 FH	708.40 FH
23077067/VN1ALP1493 FUEL NOZZLE 731040	1.6/11773 23005290/CAE-890381	1375.60 FH	MC-RR-0300-01 Fuel Nozzle Filter Inspection Inspection	300.00 FH	201.10 FH

Installed Parts & Tasks

Root Part#/Serial# 005290 / CAE-890381

Times : 11162.18 FH

Cycles

Part # / Serial # Part Description Position Code	Level Code/Attach Date/ Days Root Part # / Root Serial # Root Position Code	Since New Since Overhaul	Task # Task Description Maintenance Type	Interval	Remaining
23077067/VN1ALP1493 FUEL NOZZLE 231040	1.8/11773 23005290/CAE-890381	1375.60 FH	OH-RR-FNZ Fuel Nozzle Overhaul Overhaul	2000.00 FH	624.40 FH
23070613/326911 FUEL CONTROL UNIT 732010	1.7/11773 23005290/CAE-890381	6115.20 FH	MC-RR-2000-04 FCU Filter Inspection Inspection	2000.00 FH	864.80 FH
23070613/326911 FUEL CONTROL UNIT 732010	1.7/11773 23005290/CAE-890381	6115.20 FH	OH-RR-FCU2 Fuel Control (Bendix Model DP-V1) Overhaul Overhaul	2500.00 FH	1364.80 FH
23070106/84020061 GOVERNOR 82030	1.8/11773 23005290/CAE-890381	1668.20 FH	OH-RR-PTG3 Power Turbine Governor (BENDIX Model AL-AD1) Overhaul C30S Overhaul	2000.00 FH	331.80 FH
23070106/84020061 GOVERNOR 82030	1.8/11773 23005290/CAE-890381	1668.20 FH	CEB-73-3139 PT Governor Drive Bearing Replacement Others	1200.00 FH	100.00 FH
23073353/FT50310 BLEED VALVE 753010	1.9/11773 23005290/CAE-890381	5990.00 FH	OH-RR-CBV Compressor Bleed Valve Overhaul Overhaul	1500.00 FH	901.80 FH

4. Organization name and address
Standard Aero Ltd
33 ALLEN DYNE ROAD
WINNIPEG, MANITOBA, CANADA, R3H 1A1 AMO 22-58

5. Work Order/Contract/Invoice
LW262638

3. Form Tracking No.
ARCLW1022028

6. Item 7. Description
250-C30S ENGINE ASSEMBLY

8. Part No.
23005290

9. Qty.
1

10. Serial/batch No.
CAE890381

11. Status/Work
Repaired

12. Remarks TSN: 111623 TSO: 9216.8 CSN: 21534 CSO: Unknown

Customer PO: RO-002962-2017
 Engine Assembly p/n 23005290 s/n CAE890381 has been functionally tested; following functional test the following maintenance & inspections were performed: Qty (1) stud was replaced on the Gearbox Housing; the Fuel Control, Bleed Valve & RG Check Valve were repaired & re-installed; remainder of the engine had an external visual serviceability inspection performed; law Rolls Royce 250-C30 Overhaul Manual 14W3 2nd Ed. 23rd Rev. Dated 01 Apr. 2017, Maintenance Manual 14W2 6th Ed. 23rd Rev. Dated 15 Nov. 2016 and the current maintenance rules of the Canadian Aviation Regulations. The product is released as repaired, subject to a successful check run and power assurance check in the airframe in compliance with CAR 571. All pertinent details of work performed are on file at this organization under Work Order LW262638.

Note:
 -Power Check for reference only.
 -See attachment for parts installed during this repair.

13a. Certifies that the items identified above were manufactured in conformity with:
 Approved design data and are in condition for safe operation.
 Non approved design data specified in block 12.

14a. CAR 571.10 Maintenance release.
 Other regulations specified in block 12.
 Certifies that, except where otherwise specified in block 12, the work identified in block 11 and described in block 12 was performed in accordance with Canadian Aviation Regulations.

13b. Signature
 N/A

13c. Approved Organization Number
 N/A

14b. Signature
Rebecca Perrault

14c. Approved Organization Number
AMO 22-58

13d. Name
 N/A

13e. Date (dd/mm/yyyy)
 N/A

14d. Name
REBECCA PERRAULT

14e. Date (dd/mm/yyyy)
01-Jun-2017

1. This document does not constitute authority to install part.
 2. Where the installer works in accordance with the national regulations of an airworthiness authority other than the authority specified in block 1, the installer must ensure that higher airworthiness authority accepts products or maintenance from the airworthiness authority specified in block 1.
 3. Statements 13e and 14e do not constitute installation certification. In all cases the aircraft technical record must contain an installation certification, issued in accordance with the national regulations of the state of registry.
 (Previously Form 24-0076)

CERTIFIED TRUE COPY

ATTACHMENT TO ARCLW1022028



StandardAero

TCN: LW262638

Customer: ORNGE AIR *** CAD FUNDS

P/N: 23005290

Modified to P/N:

Customer PO #: RO-002962-2017

S/N: CAE890381

TSN: 11162.3

TSO: 9216.8

CSN: 21534

CSO: Unknow

Part Desc	Part # Installed	SN Installed	TSN	CSN	TSO	CSO	Time Rem	Cycles Rem
BLEED VALVE	23073353	FF30310 ✓	Unknown	N/A	598.2	N/A	901.8	N/A
COMPRESSOR ASSY	23051643	CAC90451 ✓	10507	22829	N/A	N/A	N/A	N/A
FUEL CONTROL UNIT	23087146	325911 ✓	Unknown	N/A	1135.2	N/A	1364.8	N/A
FUEL NOZZLE	23077067	VN1ALP1493 ✓	Unknown	N/A	1375.6	N/A	624.4	N/A
FUEL PUMP	6896810	T0159 ✓	8647.4	N/A	2291.6	N/A	708.4	N/A
GEARBOX ASSY	23035179	CAG90208 ✓	15486.8	N/A	5448.4	N/A	N/A	N/A
PT GOVERNOR	23070106	84020051 ✓	Unknown	N/A	1668.2	N/A	331.8	N/A
TURBINE ASSY	23035128	CAT90157 ✓	11789.6	24400	1193.6	2776	806.4	N/A

STANDARD AERO LIMITED
33 ALLEN DYNE ROAD
WINNIPEG, MB R3H 1A1
CANADA

AMO# 22-68
EASA.145.7059

Signature/Date

*Rebecca
Perrault*

01-Jun-2017



Rolls-Royce

Standard Aero

Engine Test Results

Model 250-C30SE REPAIR

Customer: ORNGE AIR *** CAD FUNDS
 Date: 16-May-17
 TCN: LW262638
 Shop Order: QQH12
 Run No.: 0

FOR REFERENCE ONLY

Engine S/N: CAE890381
 Comp S/N: CAC90451
 Turbine S/N: CAT90157
 Gearbox S/N: CAG90208
 RGB S/N: N/A

Engine performance data corrected to sea level, static (unity ram) standard day

Setting	CRC	CRB	CRA	NCR	TO	2.5 MIN
GPTOT				1282.0	1368.0	1424.0
SHP				603	687	739
Min Allow	334	418	501	557	650	700
% Var				8.3%	5.7%	5.6%
SFC	0.693	0.639	0.607	0.583	0.571	0.566
Max Allow	0.727	0.665	0.624	0.607	0.592	0.588
% Var	-4.7%	-3.9%	-2.7%	-4.0%	-3.6%	-3.7%

T/M Calibration at 700 HP = 99 PSIG

Seal Vent Orifice= -4

I hereby certify that the engine identified above has been tested in accordance with Rolls-Royce overhaul manual 14W3 ED2 REV22 01 APRIL 2016 for the specified workscope.

Rebecca Perrault

REPAIR AND OVERHAUL WARRANTY FOR MODEL 250



StandardAero

WARRANTY

StandardAero warrants that repairs and overhauls performed by StandardAero shall be free from defects in workmanship for the applicable warranty period subject to the terms and conditions herein. A defect shall mean the failure of an engine, module, or part to function in accordance with the applicable airworthiness authority or OEM's requirements due to StandardAero's workmanship. New parts embodied by StandardAero during an overhaul or repair shall be subject to the OEM's new part warranty.

WARRANTY PERIOD AND COVERAGE

This warranty shall be effective during the following warranty periods. The warranty period shall be the Engine Operating Time measured in hours or the number of months prescribed, whichever occurs first:

SERVICE	HOURS	FROM INSTALLATION	SINCE SHIPPED	COVERAGE
Accessories Overhaul	500 hours	12 months	12 months	0 - 500 hours 100%
Accessories Repair	500 hours	6 months	12 months	0 - 500 hours 100%
Engine Repair or Overhaul	500 hours	12 months	12 Months	0 - 500 hours 100%
OEM Embodied New Material	Per OEM	Per OEM	Per OEM	Per OEM

WARRANTY CLAIMS

To obtain warranty coverage, defects in workmanship must be discovered within the warranty period and StandardAero must be given prompt notice in writing no later than 3 days from the date the Customer knew or should have known of the defect. The engine, module or part must be returned to StandardAero no later than 30 days after such notification is made at the Customer's expense. The Customer must make any previously attached or related parts available to StandardAero upon request to assist in determining the cause of the defect.

StandardAero will assist the Customer by administering new parts warranty claims with the OEM on behalf of the Customer in accordance with OEM warranty policies. StandardAero will also assist the Customer by requesting that StandardAero's suppliers' and subcontractors' warranties with respect to parts embodied in or services provided on the Customer's engines, modules, or parts will be extended to and be enforceable by the Customer.

Engines, modules, or parts for which a warranty claim has been allowed, shall be returned to the Customer at StandardAero's expense. In the event that a warranty claim is denied, the engine, module, or part shall be returned to the customer C.O.D. and the cost of disassembly and reassembly to disclose the claimed defect and the cost of preparation of any technical report shall be borne by the Customer at StandardAero's current applicable hourly rates.

CONDITIONS FOR WARRANTY COVERAGE

This warranty is extended to the Customer that originally contracted StandardAero to perform the overhaul or repair service. This warranty may be transferred to another party with the prior written approval of Standard Aero and upon payment of a transfer fee of \$100.00.

Warranty coverage may be denied if the engine, module, or part: (1) has not been maintained and operated in accordance with StandardAero's recommendations and the OEM's directives and instructions; (2) has been altered or repaired outside Standard Aero facilities; or (3) has been subjected to misuse, neglect, accident or damage from the elements.

WARRANTY LIMITATIONS AND EXCLUSIONS

Standard Aero does not warrant parts embodied or services performed by other companies.

The obligation of Standard Aero under this warranty is limited to the repair or replacement of the parts which failed due to defects in StandardAero's workmanship and shall not include the costs of parts or labor necessary for the disassembly, reassembly, or testing of the major assembly in which the defect occurred. In the event that life-limited parts covered by this warranty are damaged beyond repair, StandardAero shall only be obligated for the replacement value of such parts.

This warranty is in lieu of all other warranties expressed or implied, including but not limited to, any warranty of merchantability or fitness for a particular purpose. All other obligations and liabilities either direct or consequential on the part of Standard Aero relating to engines, modules, or parts are hereby expressly disclaimed.

This warranty does not include, and StandardAero will not be liable for any other remedy or liability for incidental or consequential damages of any kind, including but not limited to such damages resulting from a breach of contract or warranty, alleged negligence or otherwise, damage to airframe or other property, costs or expense of operation of the engine, module, or part or other equipment, loss of the use of the aircraft, lost profits or revenue, cost of capital, cost of substitute equipment, facilities or services, downtime costs, collection costs, attorneys fees, damages of any type, or claims of Customer's buyers or other third parties for such damages, or any other loss, claim or demand of any description. Unresolved warranty disputes shall be referred to binding arbitration pursuant to the laws and in the location to be determined solely by StandardAero.

ORNGE AIR

Customer Name _____

The Customer acknowledges having read and accepts the warranty terms and conditions herein.

01 JUNE 2017

CAE890381

Date of Issue _____ Engine / Module / Part Serial Number _____

Authorized Signature _____


StandardAero
PACK NOTEShip Id: **866345**

Waybill:

Originator: SHANNON EDISON

Ship To
 ORNGE AIR *** CAD FUNDS
 5310 EXPLORER DRIVE
 MISSISSAUGA, ON L4W 5H8
 Canada

Shipped From

STANDARD AERO LTD.
 33 ALLEN DYNE RD
 PLANT 1, DOOR # 1-14
 WINNIPEG
 Canada

MB
 R3H 1A1

Attention:
 DAVID JAMES
 647.428.2005 EX 8621

<u>Doc. No</u>	<u>Part No.</u>	<u>Description</u>	<u>Serial #</u>	<u>Qty</u>	<u>Cust P/O</u>	<u>PO Num</u>	<u>PO Rel / Line Num</u>
LW262638	23005290	ENGINE ASSY CORE	CAE990381	1	RO-002962-2017		

Total Quantity 1



#02

+ Destination-014 +

* 064-0022803880 *

Consignee
ORNGE AIR YYZ STORES
1237 KAMATO ROAD
MISSISSAUGA, ON L4W 2M2
PO-9734061

Shipper
STANDARD AERO ENGINE LTD
33 ALLENDYNE ST
WINNIPEG, MB R3H 1A1
BL-855258

Special instructions

Trailer FB date- OT- DT-
\$27081DP 8/04/17 WIN TOR

From at Date
ILFB
To at Date
ILFB

Pieces Haz Description Weight

1	RATE QUOTE # 200928953 MAY APPLY CRATE CIVIL AIRCRAFT PARTS RATED WITH DEFICIT WEIGHT OF 307806-12 20170807 17:40:45 FUEL SURCHARGE @ 10.3 %	432 68
1	TOTALS	432

***** Other Special Instructions *****



3111 Kenwood Street, Burbank, CA 91505

ALLISON 250 SERIES REPAIR WARRANTY

Aviall warrants each Model 250 Engine, Engine Module or Engine Component which has been repaired by AVIALL to be free from defects in workmanship and method of repair except for any defects attributable to the failure to preserve, install, operate, maintain, repair or alter the same in accordance with applicable recommendations of Allison, or which failure has been found to be attributable to misuse, neglect, or accident, including foreign object damage whether in operation, in transit, or in storage. This warranty is further limited to the following:

1. The defective Model 250 Engine, Engine Module, or Engine Component must be returned to AVIALL and all transportation charges to and from AVIALL must be prepaid by the customer.
2. The period of this warranty is three hundred (300) hours of operation after installation, or six (6) months after shipment from AVIALL, or six (6) months after notice to the customer that the engine is available for shipment, whichever period expires first.
3. A notice in writing of a warranty claim must be given to AVIALL not later than thirty (30) days after the claimed defect in workmanship is discovered and the Model 250 Engine or Engine Module or Engine Component must be returned to AVIALL not later than ninety (90) days after such notification is made.
4. In the event any Model 250 Engine, Engine Module, or Engine Component repaired by AVIALL is returned to AVIALL, and upon examination is found by AVIALL to be defective in workmanship or method of repair, AVIALL'S obligation under this warranty extends to replacing or repairing at its Burbank Facility, any such defective engine part(s) or component(s). AVIALL shall have the sole right to determine whether the item shall be repaired or replaced. In any case AVIALL'S obligation and responsibility under this warranty is expressly limited to an amount not to exceed the repair charge made by AVIALL to the customer for whom the work was originally performed by AVIALL.

5. This warranty applies to units repaired by AVIALL whether such units were customer owned property at the time of repair or were shipped by AVIALL as Unit Exchanged Items.
6. This warranty applies only to the customer for whom the repair was originally performed and is not transferable unless specifically authorized by AVIALL in writing.
7. AVIALL hereby assigns and transfers to the customer for whom repair work was performed, insofar as AVIALL is entitled to do so, the benefits of, and rights and privileges under, any warranties which may exist in favor of AVIALL from manufacturers, outside contractors, or other persons supplying the parts or materials used by AVIALL in performing work for said customer.
8. The obligations of AVIALL under this warranty are limited to repair or replacement of a part(s) used in the repaired Model 250 Engine, Engine Module, or Engine Component as provided herein and do not include any other remedy or liability for incidental or consequential damages of any kind, including but not limited to such damages resulting from a breach of contract or warranty, alleged negligence or otherwise, damage to airframe or other property, costs or expenses of operation of engines, commercial losses or lost profits or revenues due to loss of use of the Model 250 Engine, Engine Module, or Engine Component or other equipment, loss of use of the aircraft, cost of capital, cost of substitute equipment, facilities or services, downtime costs, or claims of customers for such damages, or otherwise.
9. THIS WARRANTY IS EXPRESSLY IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, AND IS EXPRESSLY IN LIEU OF ANY NON-CONTRACTUAL LIABILITIES INCLUDING PRODUCT LIABILITIES BASED UPON NEGLIGENCE OR STRICT LIABILITY. ANY ADDITIONAL OR DIFFERENT LIABILITIES ASSUMED BY AVIALL MUST BE CONTAINED IN WRITING SIGNED BY AN AUTHORIZED EMPLOYEE OF AVIALL.

SERVICE RECORD ENGINE ASSEMBLY

Engine Serial Number ^{CAB} 8903815 Engine Model 250-L30S

INSTALLED					REMOVED			
Date	Owner	A/C or Eng. S/N	Engine Time		Date	Engine Time		Reason
			Since OH	Total		Since OH	Total	
7-24/82	Pemex	760142	N.T.	0:00	10/FEB/84	N.T.	634:35	Mod. x Aplic. Bolts
17 JUN 84	PEMEX	760145	NEW	634:35	21 OCT 84	NEW	937:30	ADJUST VALVE TIMING
21 OCT 84	PEMEX	760121	NEW	937:30	28 OCT 85	NEW	1500:40	FOR TEMPO.
Feb/87	PEMEX	760162	NEW	1500.9				
					2/23/88	TSN	1801:37	Repair GP oil stru
10 MAY 88	Pemex	760121 XC-PEO 760121	New	1801:37	11/SEP 88	445:10	1945:30	DESPLOME (STALL) COMP HRS ADJ TO AGREE WITH ACTUAL HRS ON ENGR
20/MAR/89	PEMEX #1	760145	0.0	1945.5	MAY 17/89	39:50	1985:20	MAINTENANCE CONDU.
17 MAY 89	PEMEX	760094	39:50	1985:20	30/JUL/89	190:55	2096:25	Com. Mount to.
31/OCT/89	PEMEX XC-FBL	760138	150:55	2096:25	9-5-97	LINK	3848.8 6591.9	Metal Contamination
19.597	LLOYD	760138	LINK	LINK	30 DEC 94	2670.8	4016.3	Compression F.O.D.

MODIFICATION RECORD ENGINE ASSEMBLY

Engine Serial Number *DAE 890381 S* Engine Model *250-C30 S*

Compliance Date	Bulletin or Directive No.	Title	Signature	Organization
4-16-84	72-3097	Add locitte to gearshaft	<i>[Signature]</i>	AVIATION INC. BIRMINGHAM, CALIF. AOS #407
4-16-84	73-3001	F/C & Gov screened orifices replace	<i>[Signature]</i>	AVIATION INC. BIRMINGHAM, CALIF. AOS #407
4-16-84	73-3012	Inspect gov drive shaft	<i>[Signature]</i>	AVIATION INC. BIRMINGHAM, CALIF. AOS #407
4-16-84	73-3021	Bendix F/C & gov bushing	<i>[Signature]</i>	AVIATION INC. BIRMINGHAM, CALIF. AOS #407
4-16-84	73-3022	Add filter fitting	<i>[Signature]</i>	AVIATION INC. BIRMINGHAM, CALIF. AOS #407
4-16-84	75-3008	Reduce diameter of piston	<i>[Signature]</i>	AVIATION INC. BIRMINGHAM, CALIF. AOS #407
4-16-84	75-3013	Solenoid valve assy replace rivits	<i>[Signature]</i>	AVIATION INC. BIRMINGHAM, CALIF. AOS #407
4-16-84	72-3067	Conversion to C30S Configuration	<i>[Signature]</i>	AVIATION INC. BIRMINGHAM, CALIF. AOS #407
12-28-84	770-24320-M/R-84	REPLACE A1, COUPLING SHAFT	<i>[Signature]</i>	AVIATION INC. BIRMINGHAM, CALIF. AOS #407

12-28-84

MODIFICATION RECORD ENGINE ASSEMBLY

FORM 2793 A (BACK)

Compliance Date
10-23-86

Part No.	Organization	Signature	Title	Modification Description	Part No.	Organization	Signature	Title	Modification Description	Part No.	Organization	Signature	Title	Modification Description	Part No.	Organization	Signature	Title	Modification Description
CEB 73-3009	AVIALL-Phoenix,AZ	[Signature]		Modify Fuel Control Assembly Improved Lever	CEB 73-3009	AVIALL-Phoenix,AZ	[Signature]		Modify Fuel Control Assembly Improved Lever	CEB 73-3009	AVIALL-Phoenix,AZ	[Signature]		Modify Fuel Control Assembly Improved Lever	CEB 73-3009	AVIALL-Phoenix,AZ	[Signature]		Modify Fuel Control Assembly Improved Lever
CEB 73-3012	AVIALL-Phoenix,AZ	[Signature]		and Bellows Assemblies	CEB 73-3012	AVIALL-Phoenix,AZ	[Signature]		and Bellows Assemblies	CEB 73-3012	AVIALL-Phoenix,AZ	[Signature]		and Bellows Assemblies	CEB 73-3012	AVIALL-Phoenix,AZ	[Signature]		and Bellows Assemblies
CEB 73-3012	AVIALL-Phoenix,AZ	[Signature]		Bleed Valve Assembly Mounting Gasket - Replace by Stainless Steel	CEB 73-3012	AVIALL-Phoenix,AZ	[Signature]		Bleed Valve Assembly Mounting Gasket - Replace by Stainless Steel	CEB 73-3012	AVIALL-Phoenix,AZ	[Signature]		Bleed Valve Assembly Mounting Gasket - Replace by Stainless Steel	CEB 73-3012	AVIALL-Phoenix,AZ	[Signature]		Bleed Valve Assembly Mounting Gasket - Replace by Stainless Steel
CEB-A-73-3014	AVIALL-Phoenix,AZ	[Signature]		Fuel Pump to L.P. Filter Tubing Alignment.	CEB-A-73-3014	AVIALL-Phoenix,AZ	[Signature]		Fuel Pump to L.P. Filter Tubing Alignment.	CEB-A-73-3014	AVIALL-Phoenix,AZ	[Signature]		Fuel Pump to L.P. Filter Tubing Alignment.	CEB-A-73-3014	AVIALL-Phoenix,AZ	[Signature]		Fuel Pump to L.P. Filter Tubing Alignment.
CEB-A-73-3015	AVIALL-Phoenix,AZ	[Signature]		Tube Assemblies, P/N's 6889191 and 6888832	CEB-A-73-3015	AVIALL-Phoenix,AZ	[Signature]		Tube Assemblies, P/N's 6889191 and 6888832	CEB-A-73-3015	AVIALL-Phoenix,AZ	[Signature]		Tube Assemblies, P/N's 6889191 and 6888832	CEB-A-73-3015	AVIALL-Phoenix,AZ	[Signature]		Tube Assemblies, P/N's 6889191 and 6888832
CEB-A-73-3015	AVIALL-Phoenix,AZ	[Signature]		One Time Inspection	CEB-A-73-3015	AVIALL-Phoenix,AZ	[Signature]		One Time Inspection	CEB-A-73-3015	AVIALL-Phoenix,AZ	[Signature]		One Time Inspection	CEB-A-73-3015	AVIALL-Phoenix,AZ	[Signature]		One Time Inspection
CEB 73-3022	AVIALL-Phoenix,AZ	[Signature]		Fuel and Control, N2 Overhead Control Assy.	CEB 73-3022	AVIALL-Phoenix,AZ	[Signature]		Fuel and Control, N2 Overhead Control Assy.	CEB 73-3022	AVIALL-Phoenix,AZ	[Signature]		Fuel and Control, N2 Overhead Control Assy.	CEB 73-3022	AVIALL-Phoenix,AZ	[Signature]		Fuel and Control, N2 Overhead Control Assy.
CEB-A-72-3115	AVIALL-Phoenix,AZ	[Signature]		Add Lockwashers to Ground Jumper Wire & Relocate Fuel and Control, Bendix Fuel Control and P.T. Governor Assemblies - Add Filter Fittings	CEB-A-72-3115	AVIALL-Phoenix,AZ	[Signature]		Add Lockwashers to Ground Jumper Wire & Relocate Fuel and Control, Bendix Fuel Control and P.T. Governor Assemblies - Add Filter Fittings	CEB-A-72-3115	AVIALL-Phoenix,AZ	[Signature]		Add Lockwashers to Ground Jumper Wire & Relocate Fuel and Control, Bendix Fuel Control and P.T. Governor Assemblies - Add Filter Fittings	CEB-A-72-3115	AVIALL-Phoenix,AZ	[Signature]		Add Lockwashers to Ground Jumper Wire & Relocate Fuel and Control, Bendix Fuel Control and P.T. Governor Assemblies - Add Filter Fittings
CEB 3068	AVIALL-Phoenix,AZ	[Signature]		Outer Combustion Case Assy. Add Reinforcement Wire Patch	CEB 3068	AVIALL-Phoenix,AZ	[Signature]		Outer Combustion Case Assy. Add Reinforcement Wire Patch	CEB 3068	AVIALL-Phoenix,AZ	[Signature]		Outer Combustion Case Assy. Add Reinforcement Wire Patch	CEB 3068	AVIALL-Phoenix,AZ	[Signature]		Outer Combustion Case Assy. Add Reinforcement Wire Patch
10-23-86	AVIALL-Phoenix,AZ	[Signature]		Wilton Assured Engine, 250-030/C305	10-23-86	AVIALL-Phoenix,AZ	[Signature]		Wilton Assured Engine, 250-030/C305	10-23-86	AVIALL-Phoenix,AZ	[Signature]		Wilton Assured Engine, 250-030/C305	10-23-86	AVIALL-Phoenix,AZ	[Signature]		Wilton Assured Engine, 250-030/C305



1-340424-8282

MODIFICATION RECORD ENGINE ASSEMBLY

Part III
Page No. 3
XC-F-1

Engine Serial Number QAE890881 S Engine Model A250-C308

Compliance Date	Bulletin or Directive No.	Title	Signature	Organization
10-23-88	AD 84-17-51	Abnormal rub 2nd stg. Turbine Nozzle Interstage Seal		AVIALL-Phoenix
	AD 84-24-54	Remove Coupling P/N 23008080		
	AD 85-08-51	Remove P/N 23001915 Magnetic Plugs		
	AD 85-25-07	Incorporate Outer Combustion Case		
	AD 88-19-12	Prevent Orificed Secondary Damage in event of a Gas Producer Turbine Rotor Burst. (Replaced AD-T84-24-02)		
10-23-88				
10-28-88	CGI-A-3068	Nibbling Inspection		AVIALL-Phoenix
				AVIALL-Phoenix
				KeyStone CRS
				1211
3/24/88	CEB 72-3138	Previous Compliance verified		KHC CRS E211
3/24/88	AD 86-20-13	By compliance with CSL 3073		KHC CRS 1211
FEB 27 1988	ADM-13-12	FOURTH STG. TURB. NOZZLE INSP. F/E		

102
KHC
102
102



A-3A042 A R2 82

MODIFICATION RECORD ENGINE ASSEMBLY

Part III
Page No. 4

Engine Serial Number CAE990381 S Engine Model A250-C909

Compliance Date	Bulletin or Directive No.	Title	Signature	Organization
FEB 27 1989	AD82-24-05	FCU, GOV, REMOVE BRGS WITH NYLON SEPARATORS F/E	<i>[Signature]</i>	CHE
FEB 27 1989	AD83-22-05	INSP TURB. SHAFTING REPL SAG ORING F/E	<i>[Signature]</i>	CHE
FEB 27 1989	AD85-06-51	MAGNETIC PLUGS-REPLACE F/E		
FEB 27 1989	AD85-25-08	COMP. MOUNT-REPLACE F/E		
FEB 27 1989	AD86-20-13	SPLINED ADAPTER LOCKNUT TORQUE-EMB.		
FEB 27 1989	CEB 72-3026, 72-5027, 72-3066, 73-3010, 73-3011, 73-3024 F/E			
FEB 27 1989	CEB 73-3027, 75-8009, 75-3010, 75-3011, 75-3014, A-75-3017 F/E			
FEB 27 1989	CEB 72-3110	VERTICAL FIREWALL MOUNTING PADS REPL-EMB.		
FEB 27 1989	CEB-A-3115	OUTER COMB CASE ADD REINFORCEMENT WIRE PATCH. EMB.		
FEB 27 1989	CEB 72-3138	OIL SUPPLY LINE CHK VALVE INSTALLATION EMB.		
FEB 27 1989	CEB 73-3013	LP FUEL FILTER INSP FILTER ELEMENT SEALING RINGS EMB.		
FEB 27 1989	CEB-A-3014	FP TO LP FUEL FILTER TUBING-ALIGN EMB.		
FEB 27 1989	CEB-A-3032	SCROLL TO FC FILTER TUBE-INSP EMB.		
FEB 27 1989	CEB 75-3015	COMP BLEED GASKET-REPLACE WITH LARGER HOLE GASKET. EMB.	<i>[Signature]</i>	CHE

MODIFICATION RECORD ENGINE ASSEMBLY

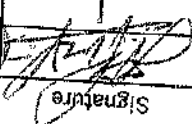
Engine Serial Number

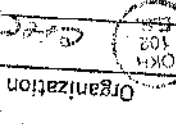
CAE 890381 B

Engine Model

A250-C30S

Compliance Date	Bulletin or Directive No.	Title
FEB 27 1989	C.S.L. A-3062	INSP. COMP. ROTOR AND SPLINED ADAPTER EMB.
FEB 27 1989	C.S.L. A-3066	NI SHAFTING INSP. EMB.
FEB 27 1989	C.S.L. 3068	ALLISON ASSURED ENGINE EMB.
FEB 27 1989	C.S.L. 3073	TURB ROTOR SPLINED LOCKOUT TORQUE REQUIREMENTS EMB.
FEB 27 1989	C.S.L. 3077	TURBINE ALIGNMENT BUILD PROCEDURES EMB.
FEB 27 1989	C.S.L. A-3087	INS. TURB SPLINED ADAPTER LOCKOUT TORQUE EMB.
06-29-92	CEB-A-73-3058	DIS. N2 (ELECT) OVERS. CONT. SYSTEM
JUL 26 2000	QRB 72-3160	72-3202, 73-3067 & 73-3089 - ^{FOUND} REMOVED
	QRB A-73-3082	7% SCREEN TO R FILTER TUBE - INSPECTION.
	QRB A-73-3075R	FUEL CONTROL BY-PASS COVER SYSTEM - INSPECTION.
	QRB 74-3001R	START COUNTER ASSY - REMOVAL.
	QRB 75-3000	VENTING OF BLEED VALVE DISCHARGE AIR.
	QAL 8055	SEGS WITH COMP. B/V ATTACHMENT BOIT.
JUL 26 2000	QAL A-3066K5	N1 SHAFTING INSPECTION.

Signature: 

Organization: 

OK
102

PERMEX

OK
102

ACRO AEROSPACE INC.

231-91

MODIFICATION RECORD ENGINE ASSEMBLY

Compliance Date	Bulletin or Directive No.	Title	Signature	Organization
JUL 26 2000	24L 3068	MALSON ASSURED ENGINE 030/0305	<i>[Signature]</i>	ACRO AEROSPACE INC.
JUL 26 2000	24L 3167	RELEASE OF NERO 6/BOX VERT TURB.	<i>[Signature]</i>	ACRO AEROSPACE INC.
JAN 17, 2000	05L-A-3067R	Imprst Compressor-Rotor Spinned Airpfer	<i>[Signature]</i>	SAL-AMO-22-58
JAN 17, 2000	05L-A-3066RS	NA Shifling Inspection	<i>[Signature]</i>	SAL-AMO-22-58
APR 17, 2003	NER-A-23-3092R3	Scrall To R Filter Tube - Inspect	<i>[Signature]</i>	SAL-AMO-22-58
APR 17, 2003	05A 25-3013	Schrodal Valve Rivets - Replace	<i>[Signature]</i>	SAL-AMO-22-58
MAY 9, 2001	02L-A-3062.RG	INSPECT COMPRESSOR ROTOR SPINND	<i>[Signature]</i>	SAL-AMO-22-58
MAY 9, 2004	05L-A-3066RS	ADAPTER	<i>[Signature]</i>	SAL-AMO-22-58
MAY 9, 2004	05L-A-3066RS	NI SHIFLING INSPECTION	<i>[Signature]</i>	SAL-AMO-22-58
MAY 9, 2004	05L-A-3066RS	NEW ENGINE REAR MOUNT BASE	<i>[Signature]</i>	SAL-AMO-22-58
MAY 9, 2004	05L-A-3066RS	FUEL CONTROL BY-PASS COVER SCREEN	<i>[Signature]</i>	SAL-AMO-22-58
MAY 9, 2004	05L-A-3066RS	INSPECTION	<i>[Signature]</i>	SAL-AMO-22-58
MAY 9, 2004	05L-A-3066RS	REPLACEMENT OF 1ST NOZZLE SHIELD	<i>[Signature]</i>	SAL-AMO-22-58
MAY 9, 2004	05L-A-3066RS	SCRALL TO R FILTER TUBE-INSPECT	<i>[Signature]</i>	SAL-AMO-22-58

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INSPECTION - MAINTENANCE - OVERHAUL RECORD

ENGINE ASSEMBLY

Engine Serial Number *ONE* 890381 *S*

Engine Model 250-C30 S

Date	Engine Time		Remarks	Signature	Organization
	Since OH	Total			
4-16-84	NEW	634:35	Inspected, repaired, converted to a		
			C30S Config. & tested on AVIALL, INC.		
			W/O C 20350.		
10-29-86	NEW	1500.3	Overhauled Turbine Assembly S/N DAT90572	<i>[Signature]</i>	AVIALL-Phoenix, AZ AVIALL-Phoenix, AZ
			and Silverpak. Inspected Compressor and		
			Gearbox for AD Note and OEB status. Details		
10-29-86			on file under work order PR1027.		
10-29-86			Completed with CSL-A-3066 NI Shafting Insp.		
21.02.89	0.0	1945.5	ENGINE OVERHAUL I.D. WITH 3 ON O.K. AND SC43267	<i>[Signature]</i>	AVIALL-Phoenix, AZ AVIALL-Phoenix, AZ ES 102 108 CNC

INSPECTION - MAINTENANCE - OVERHAUL RECORD

Part IV
Page No. 2

FORM 2784 (BACK) 1988

Date	Since OH	Total	Engine Time		Remarks	Signature	Organization
			TSN	1801:37			
3/24/88					Repaired turbine, C/W CSL 3066	<i>T. W. Wall</i>	Keystone
					Rev #1, assembled I/A/W CSL 3068		Keystone Helicopter
					Rev #1, inspected engine externally		CRS 1211
					and tested per manufacturers specifications.		
<p>This certifies that only the work requested by the customer and described in our work order listed below, was accomplished and inspected in accordance with manufacturer's specifications and with current Federal Aviation Administration regulations, and is approved for return to service. Partnet details of this repair are on file at this agency under:</p> <p>W.O. No. 80002 Date 3/24/88</p> <p>Signed <i>T. W. Wall</i> for</p> <p>KEYSTONE HELICOPTER CORPORATION 1420 PHOENIXVILLE PIKE WEST CHESTER, PA 19380 CRS No. 1211</p>							

INSPECTION - MAINTENANCE - OVERHAUL RECORD

ENGINE ASSEMBLY

Engine Serial Number CHS 8903814 Engine Model 850-0305

Date	Engine Time		Remarks	Signature	Organization
	Since OH	Total			
26 July 2000	2670.8	4616.3	ENGINE ASSY. REPAIRED & TESTED 1.8.0.14W3. 2000 HR. INSPECTION MARKED OUT 1.8.0.14W2. ON	<i>[Signature]</i>	ACRO AEROSPACE II
20 Apr. 2001	2902.5	4848.0	Engine repaired and tested IAW 14W3 manual 300 hour inspection carried out IAW 14W2 manual on ACRO W/O# 21-3321.	<i>[Signature]</i>	ACRO AEROSPACE INC.
Jan 23 2003	3130.9	5376.4	Engine Assembly (less Breech Valve) has been repaired (gearbox in accordance with Role Frisco model 200-C30 Overhaul Manual 14W3 2nd Ed., 7th Rev., and 141300, 14W2 Op. & Maint. Manual 14W3 Rev dated 10/07/00, RDA 141300, 14W2 Op. & Maint. Manual 14W3 maintenance rules of the Canadian Aviation Regulations. The product is released serviceable and is approved for return to service on time continued basis in compliance with CAR 571, FAR Part 43.17 and JAR 145 (reference JAR acceptance Certificate No. JAA 7003). All mandatory modifications and Airworthiness Directives were complied with. All pertinent details of the work performed are on file at the organization under Work Order No. LW587242. CHS 8903814	<i>[Signature]</i>	ACRO AEROSPACE II



SAL-AMO-22-58



Inspection - Maintenance - Overhaul Record

Engine Assembly

Part IV
Page No. 5

Engine Model 250-C30S

Engine Serial Number CAF-890381

Date	Engine Time		Remarks	Signature and Certificate No.	Organization
	Since OH	Total			
15/02/2004	4284.2	6729.7	Engine has been repaired (Compressor 2000 hour and 3500 hour inspection complied with, Gearbox repaired for metal and 3500 hour inspection, Turbine replaced) and tested in accordance with Rolls-Royce Model 250-C30 Overhaul Manual 14W3 2 nd Ed., 10 th Rev., dated March 15, 2004, and the current maintenance rules of the Canadian Aviation Regulations 150, 300 and 2000 hour inspections have been completed with (engine only) as indicated in the supplied check list, in accordance with 14W2 6 th Ed., 10 th Rev., dated November 15, 2003. The following major parts were replaced: Combustion Liner, Outer Combustion Case, Bleed Valve, Fuel Nozzle, Rear Engine Mount, Turbine. The engine is approved for return to service in compliance with CAR 671, FAR Part 43.17 and JAR 145 (Reference JAA Acceptance Certificate No. JAA.7059). All pertinent modifications and Airworthiness Directives were complied with. All pertinent details of the work performed are on file at this organization under Work Order No. LW517031.	SAI 501	SAI-MND-22-58
16/04/2004	4784.0	6729.7	2000 hr ENGINE INSPECTION (10 TH Eds)		
05/06/2004	5011.1	6729.7	INSR prog. P0820 W. M. Review for Turbo Fan		

-2784A (12/98)