N 602 BP

ALLISON MODEL 250 ENGINE LOG

Allison Engine Company

ROLLS ROYCE AEROSPACE GROUP

1. Approving Civil Aviation Authority/Country	2.
FAA/United States	

AUTHORIZED RELEASE CERTIFICATE

FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG

3. Form Tracking Number:
RPR36039 rev.1

4. Organization Name and Address	5. Work Order/Contract/Invoice Number:
DallasAirmotive A BBA Aviation company Dallas Airmotive, Inc. 21625 North Central Avenue Phoenix, AZ 85024 Certificate Number: YRR4491L	RPP36039

6. Item	7. Description:	8. Part Number	9. Quantity:	10. Serial Number:	11. Status/Work:
1	Engine	23063392	1	CAE847840	REPAIRED

12. Remarks TT: 2428.1 TSO: NEW CSN: 1589 CSO: NEW

Performed Engine conversion, from C47M to C47B, changed Engine P/N to 23063392, changed Gearbox P/N to 23063393 and removed ECU P/N 23072949 S/N JG6ALW0028 with reference to Rolls Royce manual CSP22001 Edition: 2 Revision: 14 Dated: September 15, 2013 (including up to TRE2R14-72-2 dated May 15, 2014) and other data and methods approved by the administrator. Note #1: ECU was not replaced this visit. Note #2: The following Bulletins and Letters were complied with this visit, CEB-72-6021, CEB-72-6004, CEB-73-6054, CEB-72-6009, CEB-72-6008 and CSL-A-6142.

13a. Certifies the items identified above were manufactured in conformity to:

- ☐ Approved design data and are in a condition for safe operation
- ☐ Non-approved design data specified in Block 12

14a. ☒ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 12

Certifies that unless otherwise specified in Block 12, the work identified in Block 11 and described in Block 12 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

13b. Authorized Signature:	13c. Approval/Authorization No.:	14b. Authorized Signature:	14c. Approval/Certificate No.:
		Richard Johnson	YRR4491L
13d. Name (Typed or Printed):	13e. Date	14d. Name (Typed or Printed):	14e. Date (dd-mmm-yyyy)
		RICHARD JOHNSON	06-Oct-2014

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Blocks 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

Authority/Country:

FAA/UNITED STATES

AUTHORIZED RELEASE CERTIFICATE

FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG

3. Form Tracking Number: **248482**

4. Organization Name and Address:

ASI Services 21617 N. 2nd Ave., Phoenix, AZ USA 85027 CRS# TU3R880L

5. Work Order/Contract/Invoice Number: **E65656**

6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:
1	ENGINE ASSY, M250-C47B	23063392	1	CAE-847840	TESTED

12. Remarks:

Performed Acceptance Test of Engine, Passed. All work performed in accordance with Rolls-Royce manual CSP22001 2nd Ed. 14th Rev. dated 15 Sep 2013 through Temp. Rev. E2R14-72-2 dated 15 May 2014. Section 72-00-00 Engine-Testing Para 6. A. through D. J. through N. S. T. Rolls-Royce manual CSP21001 2nd Ed. 17th Rev. dated 1 Sep 2014. Sections 05-00-00 Air Worthiness Limitations and 72-00-00 Description and Operation Para 11. Note # 1: Engine received with Compressor P/N: 23065593 S/N: CAC-44393, G/B P/N: 23063393 S/N: CAG-47840 and Turbine P/N: 23063354 S/N: CAT-44382 installed. Note # 2: ECU not supplied with Engine.

Performed Engine preservation exceeding 45 days. All work in accordance with Rolls-Royce manual CSP21001 2nd Ed. 17th Rev. dated 1 Sep 2014. Section 72-00-00 Engine-Storage Instructions Para 2. B. and 2. C.

Details on file under ASI W.O. E65656.

T.T. 2,428.10 T.C. 1,589 T.S.O. TSN C.S.O. CSN

13a. Certifies the items identified above were manufactured in conformity to:

- [X] Approved design data and are in a condition for safe operation.
- [ ] Non-approved design data specified in Block 12.

14a. [X] 14 CFR 43.9 Return to Service [ ] Other regulation specified in Block 12

Certifies that unless otherwise specified in Block 12, the work identified in Block 11 and described in Block 12 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

13b. Authorized Signature:	13c. Approval Authorization No:	14b. Authorized Signature:	14c. Approval/Certificate No:
N/A	N/A		TU3R880L
13d. Name (Typed or Printed):	**13e. Date (dd/mmm/yyyy):**	**14d. Name (Typed or Printed):**	**14e. Date (dd/mmm/yyyy):**
N/A	N/A	Jeff Mcatee	22 Sep 2014

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the engine/propeller/article.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of the country specified in Block 1.

Statement in Blocks 13a and 14a do not constitute installation certification. In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

Approving Civil Aviation Authority/Country	2.
FAA/United States	

AUTHORIZED RELEASE CERTIFICATE

FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG

3. Form Tracking Number:
RPR36039-1

4. Organization Name and Address	5. Work Order/Contract/Invoice Number:
DallasAirmotive A BBA Aviation company Dallas Airmotive, Inc. 21625 North Central Avenue Phoenix, AZ 85024 Certificate Number: YRR4491L	RPP36039

6. Item	7. Description:	8. Part Number	9. Quantity:	10. Serial Number:	11. Status/Work:
1	Compressor Module	23065593	1	CAC44393	REPAIRED

12. Remarks TT: 2428.1 TSO: NEW CSN: 1589 CSO: NEW

Complied with CEB-72-6067, Bearing installed is P/N M250-10354 S/N FAG141955 with reference to Rolls Royce manual CSP22001 Edition: 2 Revision: 14 Dated: September 15, 2013 (including up to TRE2R14-72-2 dated May 15, 2014) and other data and methods approved by the administrator. Note: The following Bulletins and Letters were complied with this visit, CEB-72-6067, CEB-72-6009 and CSL-A-6142.

13a. Certifies the items identified above were manufactured in conformity to:

☐ Approved design data and are in a condition for safe operation
☐ Non-approved design data specified in Block 12

14a. ☒ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 12

Certifies that unless otherwise specified in Block 12, the work identified in Block 11 and described in Block 12 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

13b. Authorized Signature:	13c. Approval/Authorization No.:	14b. Authorized Signature:	14c. Approval/Certificate No.:
		Richard Johnson	YRR4491L
13d. Name (Typed or Printed):	13e. Date	14d. Name (Typed or Printed):	14e. Date (dd-mmm-yyyy)
		RICHARD JOHNSON	19-Aug-2014

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1

Statements in Blocks 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

FAA AIRWORTHINESS DIRECTIVE COMPLIANCE RECORD

P/N	S/N	WO#					
23063392	CAE-847840	E65656					
A.D. NUMBER	EFF. DATE	CEB NUMBERS	DESCRIPTION	LAST C/W	ONCE/RECUR	NEXT C/W DUE	COMPLIANCE NOTES
82-24-05	11/26/1982	A-229, A-1206, A-99, A-1166	TO PREVENT POSSIBLE ENGINE POWER LOSS, AUTOACCELERATION, OVERSPEEDING, OR POWER TURBINE GOV. FAIL.	6/12/2000	ONCE	N/A	N/A BY P/N (HMU) INSTALLED. LOG ENTRY DATED 6/12/2000
98-10-03	5/26/1998	CEB-A73-6010/6015 (Superceded to CEB A-73-6017	WIRING HARNESS AND HYDROMECHANICAL UNIT REPLACEMENT	N/A	ONCE	N/A	N/A BY HMU P/N 23076031 INSTALLED, WIRING HARNESS P/N 23072014 INSTALLED ARE NOT APPLICABLE TO A.D. AND NO ECU INSTALLED AT THIS SHOP VISIT.
2003-13-10	N/A.	CEB A-73-6030	HMU BACKLASH MEASUREMENT SUPERSEDED BY 2004-24-04	10/16/2003	RECUR	N/A.	C/W 2003-13-10 BY LOG BOOK ENTRY DATED 10/16/2003 AND AGAIN ON 7/23/2004. SUPERSEDED BY 2004-24-04 NOTE: NEW HMU INSTALLED 10/31/2005
2004-24-04	1/3/2005	CEB A-73-6030	HYDROMECHANICIAL UNIT REPLACEMENT	NOT C/W	(RECURRING) INITIAL INSPECTION PRIOR TO 300.00 HRS.HMU TSN / RECUR EVERY 300HR.	ETT 2520.20	INITIAL COMPLIANCE DUE PRIOR TO 300 HOURS TOTAL HMU TIME. UNIT CURRENTLY HAS 207.90 TSN.
2006-16-04	9/7/2006	A-313, A-73-2075, A01394, A-73-3118, A-73-4056	TO MINIMIZE THE RISK OF SUDDEN LOSS OF ENGINE POWER AND UNCOMMANDED SHUTDOWN OF THE ENGINE DUE TO FUEL NOZZLE.	N/A	ONCE	N/A	N/A BY FUEL NOZZLE P/N 23077067 IS NOT APPLICABLE TO A.D.
2006-20-07	11/2/2006	CEB-A-72-6054	THRESHOLD EVENT RECORDING	10/9/1997	RECUR	RECORD AT EACH "EVENT THRESHOLD" AND "MAXIMUM OVERSPEED" EVENT	A.D. RECORDING CARDS ARE IN LOGBOOK. NO EVENTS RECORDED AT THIS TIME.

The information contained herein has been obtained from sources (previous owners, operators and/or repair agencies), which this company believes to be reliable. The installer / Operator of these parts has ultimate responsibility for use of this information.

Inbound / Outbound Report Created By: CS Date: 20-SEP-14.

ASI TBO / LIFE LIMITED PARTS STATUS REPORT

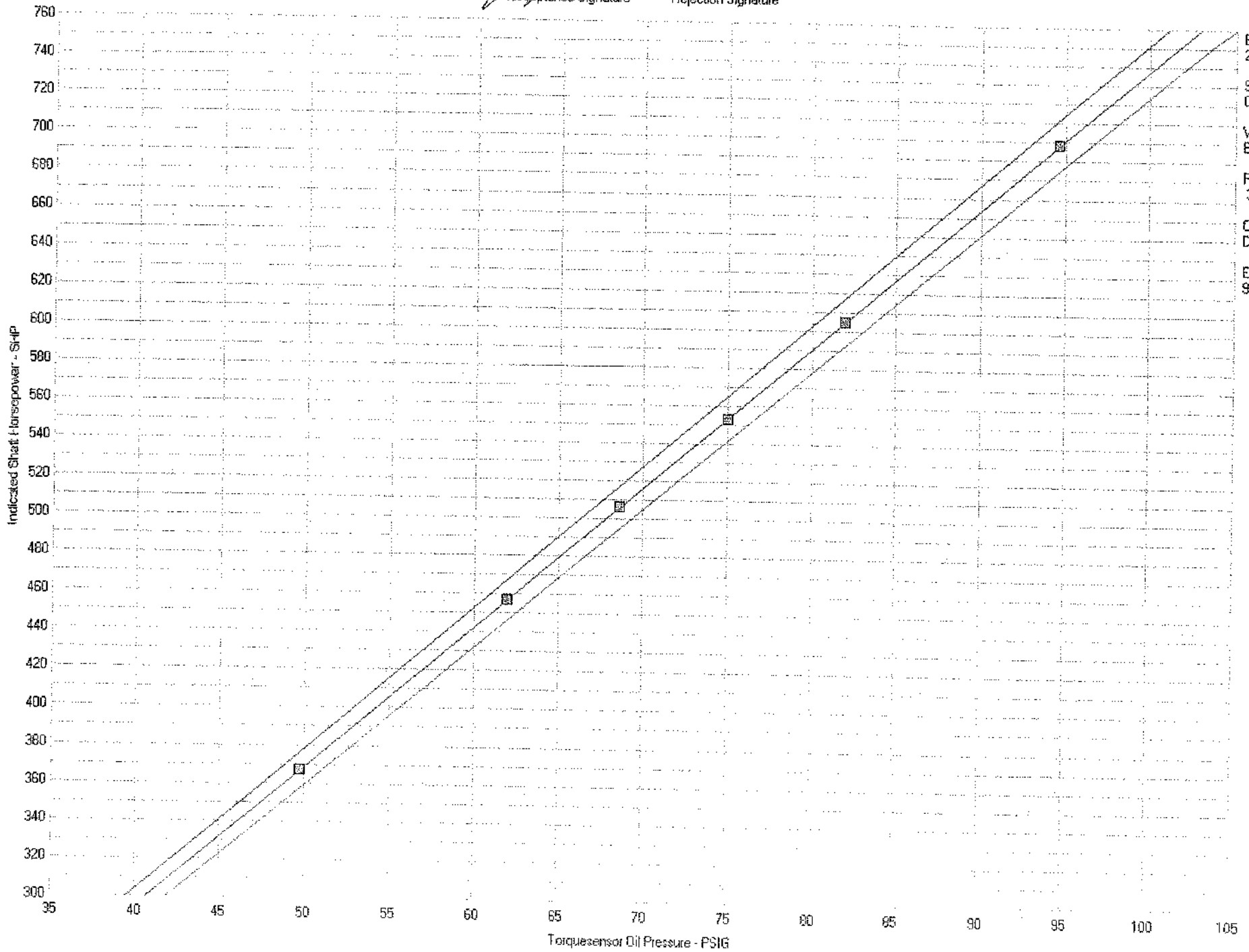
WORK ORDER #	E65656			Hours				Cycles			
Description	Part Number	Serial Number	Model	Total	Life Limit	Since O/H	Remaining	Total	Life Limit	Since O/H	Remaining
ENGINE	23063392	CAE-847840	C47B	2,428.10	On Cond	TSN	No Limit	1,589	On Cond	CSN	No Limit
COMPRESSOR	23065593	CAC-44393	C47B	2,428.10	On Cond	TSN	No Limit	1,589	On Cond	CSN	No Limit
IMPELLER	23065591	JY99180R		2,428.10	**7,500.00**	TSN	**5,071.90**	1,589	**15,000**	CSN	**13,411**
GEARBOX	23063393	CAG-47840	C47B	2,428.10	On Cond	TSN	No Limit	1,589	On Cond	CSN	No Limit
TURBINE	23063354	CAT-44382	C47B	2,428.10	2,000.00	507.00	**1,493.00**	1,589	On Cond	388	No Limit
1ST STG WHEEL	23053299	X543828		507.00	2,025.00	TSN	**1,518.00**	388	3,000	CSN	**2,612**
2ND STG WHEEL	23032280	X538834		507.00	2,025.00	TSN	**1,518.00**	388	3,000	CSN	**2,612**
3RD STG WHEEL	6898663	HX91777R		2,428.10	4,550.00	507.00	**2,121.90**	1,589	6,000	388	**4,411**
4TH STG WHEEL	23066744	HX74053		2,428.10	4,550.00	507.00	**2,121.90**	1,589	6,000	388	**4,411**
H M U	23078031	ALM0044		207.90	2,500.00	TSN	**2,292.10**	N/A	On Cond	CSN	No Limit
FUEL NOZZLE	23077067	1RM06304		N/A	2,000.00	507.00	**1,493.00**	N/A	On Cond	388	No Limit
BLEED VALVE	23073353	FF57527		N/A	1,500.00	507.00	**993.00**	N/A	On Cond	388	No Limit
E C U	Not Installed	Not Installed		N/A	On Cond	N/A	**N/A**	N/A	On Cond	N/A	No Limit
C E F A	23066681	10114		974.00	On Cond	TSN	**N/A**	N/A	On Cond	N/A	No Limit
	(7593326-101)										

INBOUND / OUTBOUND REPORT CREATED BY CS DATE 20-SEP-14

Rolls-Royce 250 Torquemeter Graph

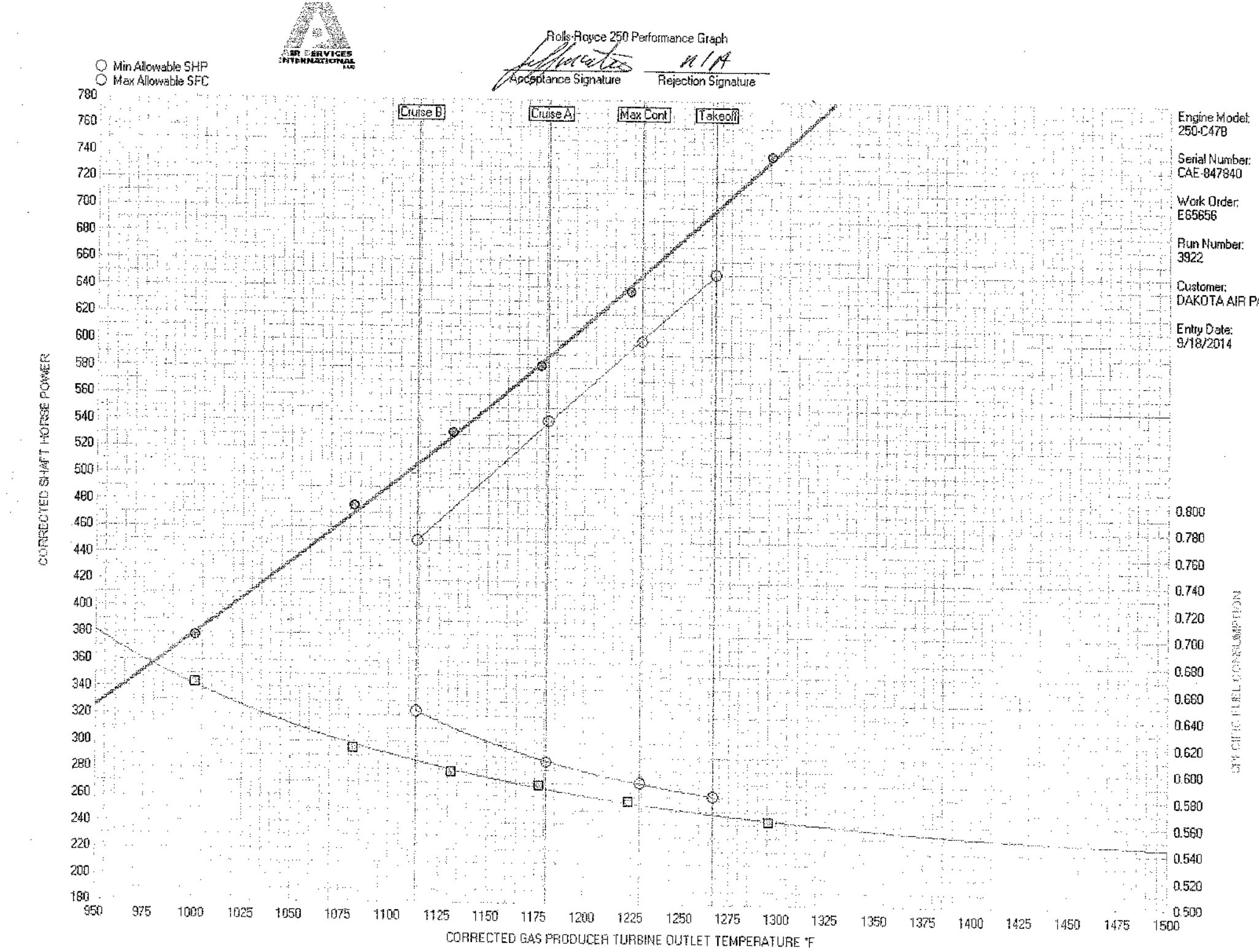
Acceptance Signature

N/A
Rejection Signature



							Cruise B	Cruise A	Max Cont	Takeoff
Engine Model	250-C47B	Compressor SN	CAC-44393	Accel:	OK					
Manufacturer	Rolls Royce	Gearbox SN	CAG-47840	BV Chk:	OK	SPEC GPTOT	1114	1181	1229	1267
Serial Number	CAE-847840	Turbine SN	CAT-44382	AI Chk:	OK	PRED SHP @ SPEC MGT	507	588	648	698
Work Order	E65656	Fuel Control SN	ALM0040(HMU)	Preserved:	OK	SPEC SHAFT PWR	450	540	600	650
Entry Date	9/18/2014 2:12:31 PM	Governor SN	S-JG6ALK0128(	Comment:	OK	% DELTA FROM SPEC PWR	12.7	8.9	8.1	7.3
Customer	DAKOTA AIR PARTS	Fuel Temp	95	# Starts:		Predicted SFC	0.606	0.585	0.575	0.568
Operator : J MCATEE		SG at Fuel Temp	0.8	Coastdn:		SPEC SFC	0.643	0.606	0.591	0.581
Assistant :		LHV (BTU/LB)	18400	Orifice: UNK		% DELTA FROM SPEC SFC	-5.8	-3.4	-2.8	-2.3
Run Number	3922	Engine TT	2,428.1							
Oil Flow in CCs										
Run Comments	ACCEPTANCE TEST									

Date		9/18/2014	9/18/2014	9/18/2014	9/18/2014	9/18/2014	9/18/2014	9/18/2014	9/18/2014	9/18/2014	9/18/2014	9/18/2014
Time		2:46:10 PM	3:04:03 PM	3:09:59 PM	3:15:35 PM	3:21:43 PM	3:27:41 PM	3:33:48 PM	3:39:43 PM	3:42:17 PM	3:43:05 PM	3:47:36 PM
Setting		Start To Idle	Seal Run In	1st Power Point	2nd Power Poin	3rd Power Point	4th Power Point	5th Power Point	6th Power Point	Anti Ice Off	Anti Ice On	Ground Idle Before Shutdown
Run Time	HH:MM:SS	00:02:00	00:19:53	00:25:49	00:31:26	00:37:33	00:43:31	00:49:38	00:55:33	00:58:07	00:58:55	01:03:26
N1 RPM	RPM	32234	52712	47484	49101	50031	50859	51640	52744	51391	51548	32047
N1 PCT	%	63.2	103.4	93.1	96.3	98.1	99.7	101.3	103.4	100.8	101.1	62.8
N1 RPM Corrected	RPM	0	50999	45886	47451	48350	49138	49871	50936	49675	49826	49826
N2 RPM	RPM	25769	32178	32201	32171	32186	32165	32193	32183	32161	32139	25330
N2 PCT	%	80.1	100.0	100.1	100.0	100.0	99.9	100.0	100.0	99.9	99.9	78.7
Dyno Torque	FT-LBS	6.9	585.7	301.6	378.1	421.3	461.1	504.6	584.5	498.1	498.1	4.0
Dyno Out Temp	°F	85.1	138.7	117.5	124.5	129.9	134.7	140.3	149.0	141.2	141.4	109.5
Dyno RPM	RPM	5052	6313	6317	6312	6315	6311	6317	6314	6312	6307	4970
Dyno HP	HP	11.8	700.2	366.8	456.6	506.2	552.6	604.6	698.0	596.8	596.4	11.6
Engine Torquemeter	PSIG	2.0	95.0	49.7	62.0	68.7	75.0	82.0	94.7	81.0	81.0	2.0
HP Corrected	HP	0.0	740.4	377.9	475.4	530.6	581.1	636.9	738.1	628.7	628.1	628.1
Fuel Temp	°F	91.7	90.7	92.7	92.7	92.7	92.7	91.7	91.7	91.7	91.7	94.8
Wf Observed	PPH	99.1	405.3	244.2	284.7	308.9	332.9	357.9	404.7	353.7	359.9	92.7
Wf Corrected	PPH	0.0	416.6	250.5	292.4	317.4	342.0	367.4	415.1	363.6	369.9	369.9
SFC Corrected	LBS/HP/HR	0.0000	0.5626	0.6630	0.6150	0.5982	0.5884	0.5768	0.5624	0.5784	0.5888	0.5888
CIP	" HGA	28.04	27.97	27.98	27.98	27.98	27.97	27.97	27.96	27.96	27.98	28.03
Exhaust Static Prs	" HGA	28.02	27.99	28.03	28.01	27.99	27.98	27.98	27.98	27.98	27.99	28.01
Baro	" HGA	28.05	28.01	28.02	28.02	28.02	28.02	28.01	28.01	28.01	28.02	28.04
Inlet Bell Delta Prs	" H20	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999
CIT	°F	95.2	94.4	95.7	95.7	95.7	96.0	96.5	96.5	95.5	95.5	98.5
CDT	°F	252.4	641.1	537.9	566.9	585.0	602.0	619.0	644.1	612.0	616.0	332.6
CDP	" Hg	48.4	228.9	164.7	183.2	193.0	201.9	211.4	228.4	209.9	208.8	46.8
GPTOT	°F	877	1418	1109	1194	1246	1295	1346	1424	1329	1360	864
GPTOT Corrected	°F	0	1296	1002	1082	1132	1178	1223	1296	1211	1240	1240
Main Oil Pressure	psig	123.1	124.0	123.1	123.1	123.1	123.1	124.0	124.0	123.1	123.1	114.1
Scavenge Oil Pressure	psig	20.0	21.0	20.0	20.0	20.0	21.0	22.0	22.0	21.0	21.0	16.0
Oil In Temp	°F	116.0	193.0	194.0	197.0	194.0	197.0	195.0	195.0	195.0	195.0	194.0
Oil Out Temp	°F	136	280	260	267	269	273	276	281	275	275	228
Gear Box ST Prs	" H2O	0.15	-4.16	-0.38	0.15	-1.21	-2.65	-3.86	-5.45	-4.47	-4.31	-0.30
Dyno Vibration	IPS	0.27	0.11	0.19	0.23	0.23	0.27	0.23	0.19	0.23	0.19	0.31
Compressor Vibration	IPS	0.07	0.23	0.19	0.19	0.19	0.19	0.23	0.19	0.23	0.23	0.07
Gearbox Vibration	IPS	0.03	0.11	0.07	0.07	0.07	0.07	0.11	0.11	0.11	0.11	0.03
Turbine Vibration	IPS	0.04	0.16	0.11	0.11	0.11	0.11	0.16	0.16	0.16	0.16	0.04
Accel/ Decel Time	Seconds	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anti Ice Line	°F	107.0	114.0	122.0	115.0	115.0	115.0	114.0	116.0	116.0	305.0	142.0
Comp Seal Vent Press	" Hg	2.3	8.5	5.2	6.3	6.5	6.7	7.4	7.4	6.2	6.5	0.8
Airflow Corrected	PPM	0.00	6.45	5.34	5.70	5.86	6.00	6.17	6.44	6.14	6.06	6.06
Comments 1		TEST ACCEPTED I/A/W R.R. O/H/M CSP22001										
Comments 2												
Comments 3												


Rolls-Royce 250 Performance Graph
Acceptance Signature
Rejection Signature
Min Allowable SHP
Max Allowable SFC
Cruise B
Cruise A
Max Cont
Takeoff
Engine Model:
250-C47B
Serial Number:
CAE-847840
Work Order:
E65656
Run Number:
3922
Customer:
DAKOTA AIR P
Entry Date:
9/18/2014
CORRECTED SHAFT HORSE POWER
CORRECTED GAS PRODUCER TURBINE OUTLET TEMPERATURE °F
780
760
740
720
700
680
660
640
620
600
580
560
540
520
500
480
460
440
420
400
380
360
340
320
300
280
260
240
220
200
180
950
975
1000
1025
1050
1075
1100
1125
1150
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1200
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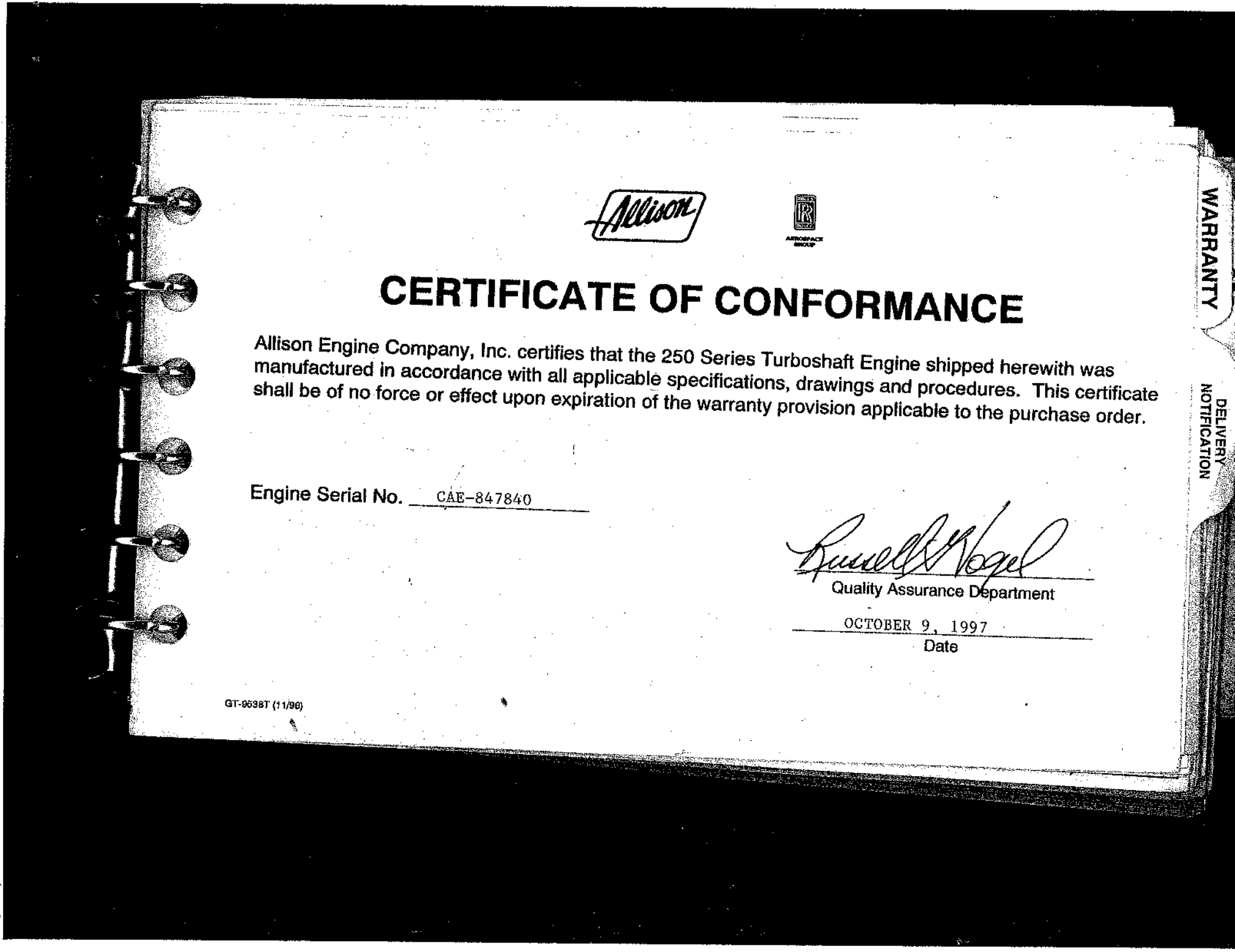
1475
1500
0.800
0.780
0.760
0.740
0.720
0.700
0.680
0.660
0.640
0.620
0.600
0.580
0.560
0.540
0.520
0.500



CERTIFICATE OF CONFORMANCE

Allison Engine Company, Inc. certifies that the 250 Series Turboshaft Engine shipped herewith was manufactured in accordance with all applicable specifications, drawings and procedures. This certificate shall be of no force or effect upon expiration of the warranty provision applicable to the purchase order.

Engine Serial No. CAE-847840

Quality Assurance Department

OCTOBER 9, 1997
Date

GT-9538T (11/96)

WARRANTY

DELIVERY NOTIFICATION

DELIVERY NOTIFICATION

There are pink cards included in this section which notify Allison when an owner has taken delivery of a new aircraft or when a new owner accepts delivery of a used aircraft. These cards are postage paid guaranteed (if mailed in the United States), pre-addressed, and only require completing and forwarding to Allison Engine Company as addressed. By sending in a completed card, you will allow Allison's support organization to serve you better. When the new owner card is received, Allison will notify the Allison 250 Authorized Maintenance Center (AMC) in your geographical area who is capable of providing all operation, maintenance, and service for your Model 250 engine. Your participation will be greatly appreciated and will help us ensure you of the best service possible.

ALLISON MODEL 250-C40/C47 SERIES
NEW ORIGINAL EQUIPMENT ENGINE WARRANTY AND DISCLAIMER SUMMARY

Allison Engine Company, Inc., warrants that Allison through an authorized Allison facility will repair or replace (at Allison option) any Model 250-C40/C47 series new engine or new engine part sold by Allison to an aircraft manufacturer for installation in a new aircraft which is returned to an authorized Allison facility with transportation charges prepaid to and from an authorized Allison facility and which has failed or malfunctioned, or at time of delivery, is deficient in material or workmanship or not in conformity with the applicable model specification effective at time of delivery to the aircraft manufacturer, subject, however, to each of the following limitations and exclusions:

1. The period of this warranty for each model is limited as follows:
   A. For new engines installed in new aircraft sold by the aircraft manufacturer as new (except for normal aircraft acceptance testing), twenty-four (24) months after date of delivery from the aircraft manufacturer or one thousand (1000) hours of operation or cycle limitation as defined in the appropriate Operations and Maintenance Manual, whichever period expires first.

2. Optional equipment not manufactured by Allison and not a part of the basic engine assembly such as Engine Air Particle Separator is excluded from this warranty. The only warranty applicable to these type components are those offered by the manufacturer of the component.

3. A notice in writing of a warranty claim must be given to Allison or an authorized Allison facility not later than 30 days after the claimed failure, malfunction or non-conformity is discovered and the new engine or new engine part must be returned to Allison or an authorized Allison facility not later than 90 days after such notification is made.

4. This warranty shall not apply to failures, malfunctions, or non-conformities of engine or engine parts attributable in whole or in part to the failure to preserve, install, operate, maintain, repair, replace or alter the same in accordance with applicable recommendations by Allison or attributable in whole or in part to misuse, corrosion, erosion, neglect, or accident including foreign object damage whether in operation, in transit, or in storage; the replacement of maintenance items made in connection with normal maintenance, labor for removal and reinstallation of failed or malfunctioning engine or engine parts; any such engine or engine part which has been repaired by other than an authorized Allison facility so as in any way to adversely affect the engine or part performance or reliability.

5. The installation of a new surplus Allison military part resold by the United States Government to the general public which meets all Federal Aviation Administration requirements will not void this warranty. However, if a failure or malfunction of an engine is attributable in whole or in part to such part(s), this warranty is voided unless the Optional New Surplus Allison Military Part Warranty has been purchased from Allison.

6. 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 OF ANY NON-CONTRACTUAL LIABILITIES INCLUDING PRODUCT LIABILITIES BASED UPON NEGLIGENCE OR STRICT LIABILITY. ANY ADDITIONAL OR DIFFERENT LIABILITIES ASSUMED BY ALLISON MUST BE CONTAINED IN A WRITING SIGNED BY AN AUTHORIZED EMPLOYEE OF ALLISON.

7. The obligations of Allison under this warranty are limited to repair or replacement (at Allison option) of engines or engine parts as provided herein and do not include any remedy or liability for incidental or consequential damages of any kind, whether for damage to airframe or other property, for costs or expenses of operation of engines, for commercial losses or lost profits due to loss of use or grounding of engines or aircraft or otherwise.

   In no event, whether as a result of breach of contract or warranty, alleged negligence or otherwise, shall Allison be liable for special or consequential damages including, but not limited to, loss of profits or revenue, loss of use of the engine or engine parts or other equipment, cost of capital, cost of substitute equipment, facilities or services, downtime costs, or claims of customers of buyer(s) for such damages.

Revised January 1996

WARRANTY

ALLISON MODEL 250-C40/C47 SERIES
NEW SPARE ENGINE AND NEW SPARE PART WARRANTY AND DISCLAIMER

Allison Engine Company, Inc., warrants that Allison through an authorized Allison facility will repair or replace (at Allison option) any Model 250-C40/C47 series new engine or new engine part sold by an authorized Allison facility for installation in a certified aircraft which is returned to an authorized Allison facility with transportation charges prepaid to and from an authorized Allison facility and which has failed or malfunctioned, or at time of delivery, is deficient in material or workmanship or not in conformity with the applicable model specification effective at time of delivery to an authorized Allison facility, subject, however, to each of the following limitations and exclusions:

1. The period of this warranty for each model is limited as follows:
   A. New spare engines and new spare engine parts which have been preserved in accordance with published Allison procedures twenty four (24) months from date of installation or one thousand (1000) hours of operation or cycle limitation as defined in the appropriate Operations and Maintenance Manual, whichever period expires first, if installed within three (3) months after date of shipment from an authorized Allison facility. Installations occurring after more than three (3) months from date of shipment from an authorized Allison facility will be twenty-seven (27) months from date of shipment or one thousand (1000) hours of operation or cycle limitation as defined in the appropriate Operations and Maintenance Manual, whichever period expires first.

2. Optional equipment not manufactured by Allison and not a part of the basic engine assembly such as Engine Air Particle Separator is excluded from this warranty. The only warranty applicable to these type components are those offered by the manufacturer of the component.

3. A notice in writing of a warranty claim must be given to Allison or an authorized Allison facility not later than 30 days after the claimed failure, malfunction or non-conformity is discovered and the new engine or new engine part must be returned to Allison or an authorized Allison facility not later than 90 days after such notification is made.

4. This warranty shall not apply to failures, malfunctions, or non-conformities of engine or engine parts attributable in whole or in part to the failure to preserve, install, operate, maintain, repair, replace or alter the same in accordance with applicable recommendations by Allison or attributable in whole or in part to misuse, corrosion, erosion, neglect, or accident including foreign object damage whether in operation, in transit, or in storage; the replacement of maintenance items made in connection with normal maintenance, labor for removal and reinstallation of failed or malfunctioning engine or engine parts; any such engine or engine part which has been repaired by other than an authorized Allison facility so as in any way to adversely affect the engine or part performance or reliability.

5. The installation of a new surplus Allison military part resold by the United States Government to the general public which meets all Federal Aviation Administration requirements will not void this warranty. However, if a failure or malfunction of an engine is attributable in whole or in part to such part(s), this warranty is void unless the Optional New Surplus Allison Military Part Warranty has been purchased from Allison.

6. 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 OF ANY NON-CONTRACTUAL LIABILITIES INCLUDING PRODUCT LIABILITIES BASED UPON NEGLIGENCE OR STRICT LIABILITY. ANY ADDITIONAL OR DIFFERENT LIABILITIES ASSUMED BY ALLISON MUST BE CONTAINED IN A WRITING SIGNED BY AN AUTHORIZED EMPLOYEE OF ALLISON.

7. The obligations of Allison under this warranty are limited to repair or replacement (at Allison option) of engines or engine parts as provided herein and do not include any remedy or liability for incidental or consequential damages of any kind, whether for damage to airframe or other property, for costs or expenses of operation of engines, for commercial losses or lost profits due to loss of use or grounding of engines or aircraft or otherwise.

   In no event, whether as a result of breach of contract or warranty, alleged negligence or otherwise, shall Allison be liable for special or consequential damages including, but not limited to, loss of profits or revenue, loss of use of the engine or engine parts or other equipment, cost of capital, cost of substitute equipment, facilities or services, downtime costs, or claims of customers of buyer(s) for such damages.

SPP

NEW OWNER CARD

PLEASE COMPLETE THE FOLLOWING AND RETURN THIS CARD TO ALLISON ENGINE COMPANY AS ADDRESSED.

OWNER NAME:

OWNER ADDRESS & PHONE:

AIRCRAFT MAKE & MODEL:

ENGINE MODEL/SERIAL NO.:

(1) (2)

ENGINE TT AND/OR TSO:

(1) (2)

GT-11157 (5/95)

NEW OWNER CARD

PLEASE COMPLETE THE FOLLOWING AND RETURN THIS CARD TO ALLISON ENGINE COMPANY AS ADDRESSED.

OWNER NAME:

OWNER ADDRESS & PHONE:

AIRCRAFT MAKE & MODEL:

ENGINE MODEL/SERIAL NO.:

(1) (2)

ENGINE TT AND/OR TSO:

(1) (2)

GT-11157 (5/95)

INSTRUCTIONS

1. The pages in this engine log book are color coded as follows:

   White – Engine Assembly
   Blue – Compressor Assembly
   Canary – Gearbox Assembly
   Cherry – Turbine Assembly
   Green – Propeller Reduction Gearbox Assembly (Turbo Prop Engines only)
   Beige – Engine Accessories
   Orange – Individual TBO Extension Records (Supplied by Distributor when Applicable)

2. Keep the pages that have entries upon them in the front of the book in the order mentioned above. Keep the spare blank pages in the back of the book behind the engine test log envelope.
3. As new pages are added, number them in numerical order.
4. There is no Part V for the Gearbox Assembly.

IMPORTANT

5. All records must stay with a given assembly as follows:
   a. When an engine assembly is transferred to any activity for overhaul, repair, warranty claim, etc., the entire log book must accompany the engine assembly.
   b. When a compressor assembly, gearbox assembly, or turbine assembly is transferred to another activity for overhaul, repair, warranty claim, etc., all pages for that assembly that have entries upon them must be removed from the log book and accompany that assembly to its destination.
   c. The replacement assembly received will be accompanied by its own log book data. (A complete log book will accompany each engine assembly; appropriate log book pages will accompany each replacement compressor, gearbox, or turbine assembly shipped from Allison Engine Company.)
   d. The applicable TBO extension page (orange) must always accompany the unit being returned for overhaul at the end of its extension period.
6. Make all log book entries promptly.
7. Additional log book pages can be ordered from your authorized Allison Engine Company distributor.

PUBLICATIONS AND REVISIONS

CSL — Is a Commercial Service Letter. Contains information to supplement the O & M Manual. (MOST CSL'S ARE FAA APPROVED.)

CEB — Is a Commercial Engine Bulletin. Contains information to inspect or modify engine hardware in conjunction with O & M Manual. (CEB'S ARE FAA APPROVED.)

O & M MANUAL — Is the Operation and Maintenance Manual. Per FAR 43-13, each person performing maintenance shall use the methods, techniques, and practices prescribed in the current manufacturer's maintenance manual. (THE O & M MANUAL IS FAA APPROVED.)

IPC — Is the Illustrated Parts Catalog. (IPC IS BASED ON FAA APPROVED DATA.)

To Operate as well as to maintain your engine properly and safely, you must refer to all of the above publications.

IT IS THE OWNER'S/OPERATOR'S RESPONSIBILITY TO CONTACT ALLISON TO INITIATE AND MAINTAIN DISTRIBUTION OF THESE PUBLICATIONS AND THEIR REVISIONS.

THEY ARE NOT DISTRIBUTED AUTOMATICALLY!

GT-5126 (5/95)

ALLISON MODEL 250 SERVICE PROTECTION PLAN

OVERVIEW

Optional to the standard Allison engine warranty is our Service Protection Plan (SPP). The purpose of the SPP is to: (1) provide you with a fixed engine cost over extended periods of time; (2) allow for a more accurate cost prediction; and (3) avoid unplanned costs associated with unscheduled maintenance events. As such, SPP provides the following basic coverage by Allison:

- Line maintenance replacement parts (e.g., igniters, fuel nozzles, etc.).
- Scheduled and unscheduled maintenance, including shop labor, parts and consumables.
- Life-limited parts.
- Incorporation of alert service bulletins as soon as possible and recommended bulletins at time of next repair; includes labor, parts and consumables.
- Loaner engines available (at plan rate).
- Availability of unit exchange line replaceable units.
- Continuous spare parts replenishment.

Typically, these services would be provided through the Allison Authorized Maintenance Center (AMC).

Your responsibilities include:

- Line maintenance/inspection labor.
- Removal and installation labor, for scheduled and unscheduled removals.
- Support equipment and tools as specified in Allison technical manuals.
- Submittal of plan reports.

SPP

ALLISON MODEL 250 SERVICE PROTECTION PLAN (con't)

For the following coverage, you pay a monthly fee based on the hours flown in a given month multiplied by a specific dollar rate per engine flight hour.

SUPPORT ELEMENTS	ALLISON	OPERATOR
Spare Engine(s)	X	—
Spare Parts	X	—
Support Equipment & Tools	—	X
Maintenance Training (Tuition)	X	—
Technical Publications	X	—
LINE MAINTENANCE AND INSPECTIONS		
Labor	—	X
Part Replenishment Including Consumable Parts	X	—
Shipment Cost of Engine Units	X	—
REPAIR, HSI, AND OH AT AMC		
Labor	X	—
Parts Replenishment - Including Consumable Parts	X	—
Life Limited Parts Replenishment	X	—
Parts Repair & Modification	X	—
Shipment Cost of Engine Units	X	—
RECOMMENDED CEB's		
Parts - Including Consumable Parts	X	—
Labor	X	—

F-2782AT (F)

SERVICE RECORD
ENGINE ASSEMBLY

Part I
Page No. 1

Engine Serial Number CAE- 847840 Engine Model 250- C47~~M~~B

INSTALLED				REMOVED			
Date	A/C S/N Reg. #	Engine Time Since OH	Engine Time Total	Date	Engine Time Since OH	Engine Time Total	Reason
04-30-98	RN037 N608BP	NEW	0.0	5-4-02	NEW	1282.2	FOD DAMAGE
06-06-02	RN037 N608BP	NEW	1282.2	8-16-04	new	1921.1	2000 hr I/SP FADEC Hard Faults
04.20.05	RN025 N602BP	NEW NEW	1921.1 1201	3 Aug 2006	New	2428.1 1589 cycles	Chips
		NEW	2428.1 1589				

TRANSFER RECORD

F-2782AT (B)

Part II
Page No. 2

Engine Serial Number CAE- 847840 Engine Model 250-C47M

TRANSFERRED / SHIPPED					RECEIVED	
Date	From	To	Engine Time		Date	Organization
			Since OH	Total		
10-9-97	ALLISON	McDONNELL	NEW	0.0		
05/28/02	DALLAS AIRMOTIVE	U.S. BORDER PATROL	NEW	1282.2		
					11-23-04	Premier Turbines
3-7-05	Premier Turbines	U.S.B.P.	NEW NEW	1921.1 1201		
3 May 2006	CBP San Diego	AHGS	New New	2428.1 T.T. 1589 cycles	AUG 2006	AHGS
27 Nov 2006	AHGS	Dept of Homeland Security	new new	2428.1 hr 1589 cycles	MAY 2009	VECTOR AEROSPACE
MAY 2009	VECTOR AEROSPACE	DEPT of Homeland Security	new new	2428.1 T.C. 1589	JUNE 2009	DEPT of Homeland Security
June 2012	Dept. Homeland Dakota Air Parts	Dakota Air Parts	TSN CSN TSN CSN	2,428.1 T.C.1,589 2,428.1 T.C.1,589	June 2012	Dakota Air Parts

Allison

GT-2786DT

AD NOTE COMPLIANCE
AND
CEB MODIFICATION RECORD
ENGINE ASSEMBLY

Part III
Page No. 1

Engine Serial Number CAE-847840 Engine Model 250-C47M B

AD #	Applicable CEB #	Date / Hours @ Comp.	Method of Compliance	One Time	Recurring	Next Comp. Date / Next Comp. @ Hrs	Signature and Certificate Number
	CEB 73-6029	8-MAR-00 / 300.4	SEE ENCLOSED LIST W/CEB	✓		N/A / N/A	AP 454671949
AD 82-24-05		6/12/00 / 901.8	N/A FADEC SYST INSTALLED	✓		N/A / N/A	A&P 461944889
	CEB A-73-6030	5/28/02 / 1282.2	HMU BACKLASH MEASUREMENT NOT TO EXCEED MAX.				DALLAS AIRMOTIVE, INC. YRRR491L Connie Kelley
	CSL A-6010	5/28/02 / 1282.2	INSPECT COMPRESSOR ROTOR AND SPLINED ADAPTER				DALLAS AIRMOTIVE, INC. YRRR491L Connie Keller
	CSL A-6012	5/28/02 / 1282.2	N1 SHAFTING INSPECTION				DALLAS AIRMOTIVE, INC. YRRR491L Connie Keller
AD 2003-13-10	CEB A-72-6030	7/23/04 / 1999.7	HMU Backlash measurement				A&P 480172150
	CEB 72-6011	8/19/14 / 2428.1	Release of New No. 1 Bearing Scavenge tube	X		N/A / N/A	YRR4491L
	CEB 72-6004	8/19/14 / 2428.1	Electrical Harness clamping.	X			YRR4491L
	CEB 72-6009	8/19/14 / 2428.1	Engine or Module Conversion (C47M to C47B)	X			YRR4491L

GT-2786DT

AD NOTE COMPLIANCE
AND
CEB MODIFICATION RECORD
ENGINE ASSEMBLY

Part III
Page No. 2

Engine Serial Number CAE- 847840 Engine Model 250-C47M

AD #	Applicable CEB #	Date / Hours @ Comp.	Method of Compliance	One Time	Recurring	Next Comp. Date / Next Comp. @ Hrs	Signature and Certificate Number
	73-6018	3-7-05 TT: 1921.1	Replace permanent magnet alternator				P.N. Meredith NZUR892L Premier Turbines
	73-6022	3-7-05 TT: 1921.1	Replace overspeed solenoid				P.N. Meredith NZUR892L Premier Turbines
AD 2003-13-10	A73-6030	3-7-05 TT: 1921.1	HMU backlash measurement not to exceed max				P.N. Meredith NZUR892L Premier Turbines
	73-6035	3-7-05 TT: 1921.1	HMU-replace certain HMUs				P.N. Meredith NZUR892L Premier Turbines
	73-6036	3-7-05 TT: 1921.1	Release of new electronic control unit (ECU)				P.N. Meredith NZUR892L Premier Turbines
	A-73-6040	3-7-05 TT: 1921.1	HMU-one time inspection of PLA signal				P.N. Meredith NZUR892L Premier Turbines
	A-73-6041	3-7-05 TT: 1921.1	Fuel nozzle-installation of new screen				P.N. Meredith NZUR892L Premier Turbines
	CSL-A-6010	3-7-05 TT: 1921.1	Inspect compressor rotor and splined adapter. Required every 2000 hours.				P.N. Meredith NZUR892L Premier Turbines
	CSL-A-6012	3-7-05 TT: 1921.1	N1 shafting inspection. Required every 2000 hours.				P.N. Meredith NZUR892L Premier Turbines

GT-2786D

AD NOTE COMPLIANCE
AND
CEB MODIFICATION RECORD
ENGINE ASSEMBLY

Part III
Page No. 3

Engine Serial Number CAE- 847840 Engine Model 250- C47B

AD #	Applicable CEB #	Date / Hours @ Comp.	Method of Compliance	One Time	Recurring	Next Comp. Date / Next Comp. @ Hrs	Signature and Certificate Number
	73-6042	3-7-05 TT: 1921.1	HMU-incorporate dual element PLA potentiometer				P.N. Meredith NZUR892L Premier Turbines
	A-73-6040R1	27 Nov 2006 TT: 2428.1	Engine, fuel and control One time Inspection of				ACROHELIPRO GLOBAL SERVICES
			PLA Signal of the HMU	X			
	CSL 6003R6	27 Nov 2006 TT: 2428.1	Model 250 reporting	X			
	CSL A-6012R5	27 Nov 2006 TT: 2428.1	N1 shafting inspection		X		
	CSL 6055	27 Nov 2006 TT:2428.1	250-C40-C47 HMU & ECU accy log book pages	X			
	CSL 6063	27 Nov 2006 TT: 2428.1	ECU history verification		X		231-91 SCA T-15
	CEB 73-6054	8/19/14 2428.1	Torque of metering Head Regulate BOLTS	X			YRRH491L
	CSL-A-6142	8/19/14 2428.1	#2 Bearing Install-ation Information				YRRH491L

GT-2786D

AD NOTE COMPLIANCE
AND
CEB MODIFICATION RECORD
ENGINE ASSEMBLY

Part III
Page No. _____

Engine Serial Number CAE- 847840 Engine Model 250- C47M

AD #	Applicable CEB #	Date / Hours @ Comp.	Method of Compliance	One Time	Recurring	Next Comp. Date / Next Comp. @ Hrs	Signature and Certificate Number

GT-2784AT

INSPECTION - MAINTENANCE - OVERHAUL RECORD
ENGINE ASSEMBLY

Part IV
Page No. 3

Engine Serial Number CAE- 847840 Engine Model 250-C47M

Date	Engine Time		Remarks	Signature and Certificate No.	Organization
	Since OH	Total			
10-9-97	NEW	0.0	FUEL SYSTEM PRESERVED WITH		
			MIL-0-6081 OIL.	[signature]	ALLISON
5-27-98	NEW	0-0	ENGINE SERVICED WITH MOBIL JET OIL II		
			PER ALLISON OPERATIONS AND MAINTENANCE		
			MANUALS FOR C-47 SERIES ENGINES.	[signature]	MDHS
06-08-98	NEW	6.2	25 CYCLES COMPLETED DURING		
			PRODUCTION FLIGHT TEST.	[signature]	MDHS

INSPECTION - MAINTENANCE - OVERHAUL RECORD
ENGINE ASSEMBLY

GT-2784AT

Part IV
Page No. 4

Engine Serial Number CAE- 847840 Engine Model 250- C47M

Date	Engine Time		Remarks	Signature and Certificate No.	Organization
	Since OH	Total			
02/05/99	148.8	148.8	150 hour INSP Completed I/A/W 250-C47M		
			Operation & Maintenance Manual 22-00-00		
			The aircraft, airframe, aircraft engine identified above was repaired and ~~inspected in accordance with current maintenance rules of the Federal Aviation~~ Regulation and is approved for return to service.		
			Pertinent details of the repair are on file at this repair station under work		
			order no 7001-9036		
			date 02/05/99		
			signed Michael D. [illegible]		
			for McAllen Air Operations Certificate No. QNNR873L		
			~~United States Border Patrol~~		
			2601 Hangar Lane Hangar 32-B		
			McAllen, Texas 78503		
			(956) 630-0806		

INSPECTION - MAINTENANCE - OVERHAUL RECORD
ENGINE ASSEMBLY

GT-2784A (5/95)

Part IV
Page No. 5

Engine Serial Number CAE- 847840 Engine Model 250- C47M

Date	Engine Time		Remarks	Signature and Certificate No.	Organization
	Since OH	Total			
10-10-99	300.4	300.4	300 HR. COMPLETED IAW 250-C47M Operation		
			manual. ~~MAINTENANCE RELEASE FORM (MCF-MREL)~~		
			The aircraft, airframe, aircraft engine identified above was repaired and ~~inspected in accordance with current maintenance rules of the Federal Aviation~~ Regulation and is approved for return to service.		
			~~ertinent details of the repair are on file at this repair station under work~~		
			rder no 9001-9246		
			ate 03-29-00		
			~~igned~~		
			or McAllen Air Operations Certificate No. ~~0NNR823L~~ United States Border Patrol 2601 Hangar Lane Hangar 32-B McAllen, Texas 78503		
8 MAR 2000	300.4	300.4	Complied with applicable CEB		
			#73-6029 Remvd. and Installed		
			CEFA unit see Applable CEB on Record Per S/N's		

INSPECTION - MAINTENANCE - OVERHAUL RECORD
ENGINE ASSEMBLY

Part IV
Page No. 6

GT-2784A (5/95)

Engine Serial Number CAE- 847840 Engine Model 250-C47M

Date	Engine Time		Remarks	Signature and Certificate No.	Organization
	Since OH	Total			
3 July 00	451.2	451.2	150 hr. Inspection Completed IAW 250-C47M		
			operation & Maintenance Manual 72-00-00		
			MAINTENANCE RELEASE FORM (MCA-1REL)		
			The aircraft, airframe, aircraft engine identified above was repaired and inspected in accordance with current maintenance rules of the Federal Aviation Regulation and is approved for return to service.		
			Pertinent details of the repair are on file at this repair station under work		
			Order no: 9001-0184		
			Date: July 3-2000		
			Signed for: [signature]		
			McAllen Air Operations Certificate No. QNNR873L United States Border Patrol 2601 Hangar Lane Hangar 32-B McAllen, Texas 78503 (956) 630-0806		

Service Accessory Record

Rolls-Royce

Part I

Page No. 7

Nomenclature _____

Component serial number _____

Engine Model 250- _____

INSTALLED					REMOVED			
Date	Engine S/N	A/C S/N Reg. #	Accy. Time Since OH	Accy. Time Total	Date	Accy. Time Since OH	Accy. Time Total	Reason
			See other side					

GT-11778(F) 9/98

Inspection - Maintenance - [redacted]
AD/CEB Compliance Record Accessory

Rolls-Royce

Part II

Page No. 8

Nomenclature Engine Assy

Component serial number CEA-847840

Engine Model 250-C47M

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 Since OH	Accy. Time Total	Remarks	Signature and Certificate No.
				acft 6014	
25 OCT 00	150hr maintenance operation and	Inspection		completed I/A/W 250-C47M operation and 72-00-00. 300hr Inspection completed I/A/W 250-C47M operation and maintenance 72-00-00.	
				MAINTENANCE RELEASE FORM (MCA-MREL) The aircraft, airframe, aircraft engine identified above was repaired and inspected in accordance with current maintenance rules of the Federal Aviation Regulation and is approved for return to service. Pertinent details of the repair are on file at this repair station under work order no 9001-0253 date 25 OCT 00 Signed [signature] for [signature] McAllen Air Operations Certificate No. QNHR873L United States Border Patrol 2601 Hangar Lane Hangar 32-B McAllen, Texas 78503 (956) 630-9806	

GT-11778(B)

Allison

SERVICE RECORD
ENGINE ASSEMBLY

F-2782A (5/95) (F)

Part I
Page No. 9

Engine Serial Number CAE- 847840

Engine Model 250- C47M

INSTALLED				REMOVED			
Date	A/C S/N Reg. #	Engine Time Since OH	Engine Time Total	Date	Engine Time Since OH	Engine Time Total	Reason
11 Jan-01	750.8						

Performed 150 HR engine inspection IAW 250 C47M OPS. AND maint manual 72-00-00 Performed service Bulletin EML-35A HMU 73-13 on JAN 11-01- AND meets the backlash requirements of this bulletin

MAINTENANCE RELEASE
The aircraft, airframe, aircraft engine [illegible] above was repaired and inspected in accordance with current [illegible] Federal Aviation Regulation and is approved for return to service.
Pertinent details [illegible] under work
Order no 9001/003
Date 03 JAN 01
Signed [signature]
for [illegible] Air Operations Certificate No. QNWR873L
United States Border Patrol
2601 Hangar Lane Hangar 32-B

Allison

[redacted]

F-2782A (5-95) (B)

Part II
Page No. 10

Engine Serial Number CAE- 847840 Engine Model 250- C47M

TRANSFERRED / SHIPPED					RECEIVED	
Date	From	To	Engine Time		Date	Organization
			Since OH	Total		
JUNE 20-01	FMA 901.3	PERFORMED 150 HR. INSPECTION IAW 250-C47M				
	OPERATION & MAINTENANCE 72-00-00 300 HR INSPECTION COMPLETED IAW					
	250-C47M OPERATION & MAINT. 72-00-00					
10 AUG 01	FMA 100CD	COMPLIED WITH 100HR INSP IAW ALLISON 250-C47M OPERATION & MAINT.				
	MANUAL CHECKLIST 72-00-00					

Allison

GT-2784A (5/95)

INSPECTION - MAINTENANCE - OVERHAUL RECORD
ENGINE ASSEMBLY

Part IV
Page No. 11

Engine Serial Number CAE- 847840 Engine Model 250- C47M

Date	Engine Time		Remarks	Signature and Certificate No.	Organization
	Since OH	Total			
30 Aug	(NEW)	1049.7	COMPLIED WITH 150 HR INSP IAW ALLISON 250-C47M		
			OPERATIONS & MAINT MANUAL CHECKLIST 72-00-00		
				[signature] A&P [illegible]	
3/20/02		1202.1	Completed a 150 hour inspection in		
			accordance with RollsRoyce 250-C47M		
			inspection guide. Completed 300 hour inspection		
			in accordance with same. [signature] Cert # 421049685 A/P		
5/28/02	NEW	1282.2	INSPECTED AND REPAIRED FOR F.O.D. AND		
	CSO: NEW	CSN: 767	EROSION. BENCH CHECKED FUEL NOZZLE.		
			REPLACED 1ST STAGE TURBINE WHEEL WITH		
			NEW. TESTED AND PRESERVED. ALL WORK		
			ACCOMPLISHED IAW CSP22002 2ND ED. 3RD REV. (CONTINUE)		

INSPECTION - MAINTENANCE - OVERHAUL RECORD
ENGINE ASSEMBLY

GT-2784A (5/95)

Part IV
Page No. 12

Engine Serial Number CAE- Engine Model 250-

Date	Engine Time		Remarks	Signature and Certificate No.	Organization
	Since OH	Total			
5/28/02	NEW	1282.2	AND DALLAS AIRMOTIVE, INC. CURRENT WORK		
	CSO: NEW	CSN: 767	SPECIFICATIONS. DETAILS ON FILE UNDER		
			WORK ORDER TR0846.	Willie Kelley	DALLAS AIRMOTIVE, INC. YRRR491L
11 JUNE 02	ATT	1292.8	Completed 150 hr Inspection		
			I.A.W. Allison Inspection CK		
			LIST. This ENGINE WAS found		
			to be in Airworthy condition and	#1759222332	LAREDO AIRCRAFT
			is returned to Service.	J Nieves JR	U.S. B P
2-28-03	New	1500.6	Completed 150hr & 300hr	inspections in accordance	
	with Allison 250-C47 Operations Maintenance			manual CSP21004 section	
72-00-00. I certify that this engine has been inspected I.A.W. an Annual, 150, 300hr inspection					
and was determined to be in airworthy condition. Scott A&P 3886320					

DallasAirmotive

INSPECTION-MAINTENANCE OVERHAUL RECORD
ENGINE ASSEMBLY

Engine Serial Number CAE-847840 **Model** 250-C47M

Date	TSN / CSN	TSO / CSO	Remarks	Signature	Organization
10-16-03	1604.1	5H	Completed 100 hr inspection in accordance with MD helicopters inc. CSP-HMI-2 inspection guide. I certify that this engine has been inspected in accordance with an Annual inspection & was determined to be in airworthy condition.		AI3886632O
10-16-03	1604.1		C/W AD2003-13-10 rolls-royce hydro mechanical unit potentiometer tests, in accordance with CEB A-73-3103 rev. 3, trace is similar to figure 1 of CEB, unit is acceptable, installed HMU back on engine, bleed fuel system & parked pistons.		AI3886632O
10-27-03	1652.5		Completed 150 hr inspection IAW Rolls-Royce 250-C47M operation & maintenance 72-00-00. 120cc oil flow on power turbine support. Performed HMU shut down function 72-00-00 para 7.K. ECU fail & fadec system manual over-		

over -

DallasAirmotive

INSPECTION-MAINTENANCE OVERHAUL RECORD
ENGINE ASSEMBLY

Part IV
Page No. 14

Engine Serial Number ____________ Model ____________

Date	TSN / CSN	TSO / CSO	Remarks	Signature	Organization
	lamp	test, H	MU manual mode operation.	MGT indicating	system
	check	with in	1°C. Torque indication system	check with in	1psi. Cleaned
	Engine oil	filter	and reinstalled. Michael D [illegible]	A&P 432177150	
6-9-04	NEW	1801.3	Completed 150 hr, 300 hr, + annual inspection in		
accordance	with	allison 250-C47M operations & maintenance manual			
CSP 2	1004 section 72	-00-00. Installed new igniter. Note: AD 2003-13-10			
HMU	Due at	1904 hrs. I certify that this engine has been inspected in			
accordance	with an annual, 150, 300 hr inspection & was determined to be				
in airworthy condition. [signature] AI 388666320					

DTP / RE: 100-002 R2

Dallas Airmotive

INSPECTION-MAINTENANCE OVERHAUL RECORD
ENGINE ASSEMBLY

Part IV
Page No. 15

Engine Serial Number CAE-847840 Model 250-C47M

Date	TSN / CSN	TSO / CSO	Remarks	Signature	Organization
Jul-7-04		1890.9	REMOVED PRIMARY ENGINE SPEED SENSOR SN SNA958 PN 9847- AND INSTALLED SN. SNA391 OUT OF ACFT 605, CLEAR FAULTS RAN ACFT checks good on shut down.	[signature] 461946889	
Jul 23 2004	New / New	1899.7	C/W AD 2003-13-10 Rolls-royce hydro mechanical unit Potenciometer test, I/A/W CEB A-73-3103 rev 3 trace is check ok, Reinstalled HMU after checking back lash on main Drive shaft (HMU).	Michael P [signature]	AHP430177150.
Aug 16/04	New / New	1921.1 / 1201.0	Removed Engine from RN037 N608BF due to FADEC System Hard fault, WFmv flt, WFmv Rt flt, WfHD flt, CPU Hard flt, CPU Hard flt and WDT Hard flt, Engine due 2000 hr inspection at TSO 2000.	Michael P [signature]	AH430177150

DTP / RE: 100-002 R2

DallasAirmotive

INSPECTION-MAINTENANCE OVERHAUL RECORD
ENGINE ASSEMBLY

Engine Serial Number CAE 847840 **Model** 250-C47M

Date	TSN / CSN	TSO / CSO	Remarks	Signature	Organization
3-7-05	1921.1 / 1201	NEW / NEW	Time continued repair on compressor P/N 23065593 S/N CAC 44393 and gearbox P/N 23066745 S/N CAG 47840 and overhauled turbine P/N 23063354 S/N CAT 44382 IAW Rolls-Royce O/H/M CSP 22001, 2nd edition; revision 5, dated 15 September 2004. Complied with 73-6018, 73-6022, A73-6030, 73-6035, 73-6036, A-73-6040, A-73-6041, CSL-A-6010, CSL-A-6012, & 73-6042. Details on file at this work station under wo# 4313.	P.N. Meredith	NZUR892L Premier Turbines
3-7-05	1921.1 / 1201	NEW / NEW	Installed PMA parts: Coupling P/N E23032345 S/N UM7-200, Segment Damper P/N E6844422 S/N 6843, Spline lock nut P/N E6896408 L/N 6892, Oil Access, HSG to Check Valve Tube Assy. P/N 6871937AL L/N 02336, Bearing Sleeve Assy Kit. P/N 23058131 L/N 031249, Outer race & roller bearing assy. P/N 23007202AL S/N TA4-0512068. Details on file at this work station under wo# 4313.	P.N. Meredith	NZUR892L Premier Turbines
3 Aug 2005	2428.1 / 1589		Engine Removed Due to chips	M D Bunner	CAP San Diego

INSPECTION—MAINTENANCE—OVERHAUL RECORD

ENGINE ASSEMBLY

2784A(11-77)

Engine Serial Number CAE-847840 Engine Model 250-C47M

Date	Engine Time		Remarks	Signature	Organization
	Since OH	Total			
27 Nov 2006	new	2428.1 1589 cy	Repaired and tested IAW CSP 22001 Ed 2, Rev7 dated 15 Sep 2006.	ACROHELIPRO GLOBAL SERVICES	
			150, 300 hour inspections c/o IAW CSP 21004 Ed 1, Rev 9, dated 15. Sep 2006.		
			AHGS W/O: 26-20350		
22 May 09	NEW	2428.1	Repaired & Tested IAW RR OHM CSP 22001,	VECTOR AEROSPACE HELICOPTER SERVICES INC.	231-91 SCA T-27
		csn: 1589	2E, R9 dated 15 Sept 2008.		
			Vector W/O# 29-06160		
			NEXT PAGE		

INSPECTION — MAINTENANCE — OVERHAUL RECORD

ENGINE ASSEMBLY

21625 N. Central Avenue, Ste 104
Phoenix, Arizona 85024
(623) 824-7961

DallasAirmotive
A BBA Aviation company

Engine Model M250- C47B
Compressor Serial # CAC-44393

Compressor Times

TT:	2428.1	TSO:	NEW
TC:	1589	CSO:	NEW

Complied with CEB-72-6067, Bearing installed is P/N M250-10354 S/N FAG136654 with reference to Rolls Royce manual CSP22001 Edition: 2 Revision: 14 Dated: September 15, 2013 (including up to TRE2R14-72-2 dated May 15, 2014) and other data and methods approved by the administrator. Note: The following Bulletins and Letters were complied with this visit, CEB-72-6067, CEB-72-6009, CEB-72-6008 and CSL-A-6142.(Entry revised 6-Oct. 2014.)

This certifies that the work requested by the customer and described on the sales order listed below was accomplished and inspected with reference to instructions for continued airworthiness, other data acceptable to the FAA and current FAA regulations, and with respect to the work performed, is approved for return to service. Pertinent details of this repair are on file at this FAA Certified Repair Station.

For Dallas Airmotive, Incorporated CRS YRR4491L

Date: 6-Oct-2014 W/O #: RPR36039 Signed: RICHARD JOHNSON Richard Johnson

GT-2784A (8/98)

Rolls-Royce

Inspection - Maintenance - Overhaul Record
Engine Assembly

Engine Serial Number CAE- 847840 **Engine Model** 250- C47B

Date	Engine Time		Remarks	Signature and Certificate No.	Organization
	Since OH	Total			
19 Sep 14	TSN	2,428.1	Performed Acceptance Test, Passed.		TU3R880L
	Cycles CSN	T.C. 1,589	All work I/A/W R.R. O/H/M CSP		
			22001 2nd Ed. 14th Rev. dated		
			15 Sep 2013 thru T.R. E2R14-72-2		
			dated 15 May 2014. Performed Engine		
			Preservation Exceeding 45 days.		
			All work I/A/W R.R. O/M/M CSP		
			21001 2nd Ed. 17th Rev. dated 1		
			Sep 2014 Section 72-00-00 Engine-		
			Storage Para 2. B. and 2. C. details		
			on file under A.S.I. W.O. # E65656		ASI Services

GT-2784A (8/98)

Inspection - Maintenance - Overhaul Record
Engine Assembly

Rolls-Royce

Part IV 20
Page No.

Engine Serial Number CAE-847840 Engine Model 250-C47B

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

F-2785AT

ASSEMBLY RECORD
ENGINE ASSEMBLY

Part V
Page No. 1

Engine Serial Number CAE- 847840 Engine Model 250-C47M-B

Nomenclature	Part Number	Serial Number	INSTALLED		REMOVED		Reason
			Date	TT / TSO	Date	TT / TSO	
GEARBOX	23066745	CAG-47840	10-9-97	0.0 / NEW	18 Sep 2006	2428.1 / NP	Repair
COMPRESSOR	23065593	CAC-44393	"	0.0 / NEW	5/09/02	1282.2 / NEW	REPAIR
TURBINE	23063354	CAT-44382	"	0.0 / NEW	5/09/02	1282.2 / NEW	REPAIR
COMPRESSOR	23065593	CAC-44393	5/28/02	1282.2 / NEW	3-7-05	1921.1 / TT: 1921.1	
TURBINE	23063354	CAT-44382	5/28/02	1282.2 / NEW	3-7-05	1921.1 / TT: 1921.1	O/H
COMPRESSOR	23065593	CAC 44393	3-7-05	1921.1 / TT: 1921.1	18 Sep 2006	2428.1 / NP	Repair
TURBINE	23063354	CAT 44382	3-7-05	1921.1 / 0.0	18 Sep 2006	2428.1 / 507	Repair
GEARBOX	23066745	CAG -47840	27 Nov 2006	2428.1 / NP	6/18/14	2428.1 / NEW	Convenience
COMPRESSOR	23065593	CAC-44393	27 Nov 2006	2428.1 / NP	6/18/14	2428.1 / NEW	Convenience
TURBINE	23063354	CAT-44382	27 Nov 2006	2428.1 / 507	13 Apr 09	2428.1 / 507.0	

Allison

F-2785AT

ASSEMBLY RECORD
ENGINE ASSEMBLY

Part V
Page No. 2

Engine Serial Number CAE- 847840 Engine Model 250-C47M B

Nomenclature	Part Number	Serial Number	INSTALLED		REMOVED		Reason
			Date	TT / TSO	Date	TT / TSO	
Turbine	23063354	CAT-44382	ETT: 2428.1 22 May 09	2428.1 507.0	6/18/14	~~2428.1~~ 507.0	Condition
Gear Box	23063393	CAG47840	8/19/14	2428.1 New			
Compressor	23065593	CAG44393	8/19/14	2428.1 New			
Turbine	23063354	CAT44386	8/19/14	2428.1 507.0			

GT-2786C

ASSEMBLY RECORD
ENGINE ACCESSORIES

Part VI
Page No. _____

Engine Serial Number CAE- 847840 Engine Model 250- C47M B

Nomenclature	Part Number	Serial Number	INSTALLED Date	INSTALLED TT / TSO	REMOVED Date	REMOVED TT / TSO	Reason
FADEC ASSY	23068338	~~JG7ALW0064~~	10-9-97	0.0 / NEW	10/15/98	6.2 / New	CEB
~~HYDROMECHANICAL~~ UNIT	23068651	JGALM0471	"	0.0 / NEW	09/15/99	300.4	UPGRADE
FUEL NOZZLE	6899001	1VM03150	"	0.0 / NEW	N/R	N/R / N/R	
BLEED VALVE	23005366	FF57527	"	0.0 / NEW	3-7-05	1921.1 / TT: 1921.1	O/H
Fadec Assy	23070259	JGLALW0025	10/23/98	10.1 / NEW	1/5/05	1921.1 / TSN: 1911	Upgrade
CEFA ASSY INSTALLED (CEB)	23066681/ 7593376-101	10114	8/MAR/00	1454.1 / N/P			
HYDRO MECHANICAL UNIT	23072208-REVA 114070-03A4	JGALM0122	28/FEB/00	300.	12/6/04	1921.1 / 1621.1	
FUEL NOZZLE	6899001	1RM06304	N/R	NEW / NEW	5/09/02	682.2 / NEW	BENCH CHECK
FUEL NOZZLE	6899001	1RM06304	5/28/02	682.2 / NEW	3-7-05	1921.1 / TT: 1921.1	

ASSEMBLY RECORD
ENGINE ACCESSORIES

GT-2786C

Part VI
Page No. _____

Engine Serial Number CAE- 847840 Engine Model 250-C47M B

Nomenclature	Part Number	Serial Number	INSTALLED		REMOVED		Reason
			Date	Eng. TT / TSO	Date	Eng. TT / TSO	
FUEL NOZZLE	23077067	1RM06304	3-7-05	1921.1 / 0.0			
BLEED VALVE	23073353	FF 57527	3-7-05 TT: 1921.1	1921.1 / 0.0			
ECU	23072949	JG6ALW0028	3-7-05	1921.1 / TT: 2010.7	6/18/14	2428.1 NEW	CONVERTING TO C47B
HMU TT: 1228.2	23078031	JGALM0461	3-23-05	1921.1 / 0.0	10-31-2005	2220.2	Transfer
HMU	23078031	ALM0044	10/31/05	2220.2 / 0			

Allison

F-2782BT (F)

SERVICE RECORD
COMPRESSOR ASSEMBLY

Part I
Page No. _____

Compressor Serial Number CAC- 44393 Engine Model 250- C47M B

INSTALLED			REMOVED		
Aircraft S/N / Engine S/N	Date	TT / TSO	Date	TT / TSO	Reason
		0.0	5/09/02	1282.2	REPAIR
CAE-847840	10-9-97	NEW		NEW	
	5/28/02	1282.2	5-7-05	1921.1	REPAIR
CAE-847840		NEW		NEW	
	5-7-05	1921.1	18 Sep 2006	2428.1	Repair
CAE-847840		NEW		new	C/W CEB 72-6067
	27 Nov 06	2428.1	6/18/14	2428.1 NEW	
CAE847840	6/19/14	NEW			

TRANSFER RECORD

F-2782BT (B)

Part II
Page No. _____

Compressor Serial Number CAC- 44393 Engine Model 250- C47M

TRANSFERRED/SHIPPED					RECEIVED	
Date	From	To	Compressor Time		Date	Organization
			Since O/H	Total		
10-9-97	ALLISON	McDONNELL	NEW	0.0		

GT-2786ET

AD NOTE COMPLIANCE
AND
CEB MODIFICATION RECORD
COMPRESSOR ASSEMBLY

Part III
Page No. _____

Compressor Serial Number CAC-44393 Engine Model 250-C47M B

AD #	Applicable CEB #	Date / Hours @ Comp.	Method of Compliance	One Time	Recurring	Next Comp. Date / Next Comp. @ Hrs	Signature and Certificate Number
			SEE ENCLOSED LIST				
	CSL A-6010	5/28/02 / 1282.2	INSPECT COMPRESSOR ROTOR AND SPLINED ADAPTER				DALLAS AIRMOTIVE, INC. YRRR491L
	CSL A-6012	5/28/02 / 1282.2	N1 SHAFTING INSPECTION				DALLAS AIRMOTIVE, INC. YRRR491L
	CSL-A-6010	3-7-05 / TT: 1921.1	Inspect compressor splined adapter and rotor. Required every 2000 hours.				P.N. Meredith NZUR892L Premier Turbines
	CSL-A-6012	3-7-05 / TT: 1921.1	N1 shafting inspection. Required every 2000 hours.				P.N. Meredith NZUR892L Premier Turbines
	CEB 72-6055 R2	27 Nov 06 / 2428.1	Inspect #2 Bearing lock key slot radii	X			ACROHELIPRO GLOBAL SERVICES YRR491L
	CSL A-6012 R5	27 Nov 06 / 2428.1	N1 Shafting Inspection		X		
	CEB 72-6067	8/19/14 / 2428.1	NEW #2 BEARING S/N FAG 141955				YRR491L
	CEB 72-6009	8/19/14 / 2428.1	ENGINE OF MODULE CONVERSION INFORMATION (C47M C47B)				YRR491L

Allison

GT-2786ET

AD NOTE COMPLIANCE
AND
CEB MODIFICATION RECORD
COMPRESSOR ASSEMBLY

Part III
Page No. _____

Compressor Serial Number CAC-44393 Engine Model 250- C47B

AD #	Applicable CEB #	Date / Hours @ Comp.	Method of Compliance	One Time	Recurring	Next Comp. Date / Next Comp. @ Hrs	Signature and Certificate Number
	CSLA-6142	8/18/14 3428.1	#2 BEARING INSTALLATION INFORMATION				VRRH4192

INSPECTION - MAINTENANCE - OVERHAUL RECORD
COMPRESSOR ASSEMBLY

F-2784C (5/95)

Part IV
Page No. _____

Compressor Serial Number CAC- 44393 Engine Model 250- C47M B

Date	Compressor Time		Remarks	Signature and Certificate No.	Organization
	Since OH	Total			
5/28/02	NEW	1282.2	INSPECTED AND REPAIRED FOR F.O.D. AND		
	CSO: NEW	CSN: 767	EROSION, TESTED AND PRESERVED. ALL WORK		
			ACCOMPLISHED I/A/W O/H/M CSP22001 2ND ED.		
			3RD REV. AND DAI CURRENT WORK SPECIFICA-		
			TION. DETAILS ON FILE UNDER WORK ORDER		
			TR0846.	Ronnie Kelley	DALLAS AIRMOTIVE, INC. YRFR491L
3-7-05	NEW	1921.1	Time continued repair on compressor and		
	NEW	1201	complied with CSL-A-6010 & CSL-A-6012.		
			Details on file at this work station		
			under wo# 4313.	P.N. Meredith	NZUR892L Premier Turbines
27 Nov 2006	NEW	2428.10	Repaired and tested IAW CSP 22001, Ed 2,	ACROHELIPRO GLOBAL SERVICES	
			Rev 7, dated 15 Sep 2006.		23 91 CA T-15

INSPECTION - MAINTENANCE - OVERHAUL RECORD
COMPRESSOR ASSEMBLY

F-2784C (5/95)

Part IV
Page No. _____

21625 N. Central Avenue, Ste 104
Phoenix, Arizona 85024
(623) 824-7961

DallasAirmotive
A BBA Aviation company

Engine Model M250- C47B
Compressor Serial # CAC-44393

Compressor Times

TT:	2428.1	TSO:	NEW
TC:	1589	CSO:	NEW

Complied with CEB-72-6067, Bearing installed is P/N M250-10354 S/N FAG136654 with reference to Rolls Royce manual CSP22001 Edition: 2 Revision: 14 Dated: September 15, 2013 (including up to TRE2R14-72-2 dated May 15, 2014) and other data and methods approved by the administrator. Note: The following Bulletins and Letters were complied with this visit, CEB-72-6067, CEB-72-6009 and CSL-A-6142.

This certifies that the work requested by the customer and described on the sales order listed below was accomplished and inspected with reference to instructions for continued airworthiness, other data acceptable to the FAA and current FAA regulations, and with respect to the work performed, is approved for return to service. Pertinent details of this repair are on file at this FAA Certified Repair Station.

For Dallas Airmotive, Incorporated CRS YRR4491L

Date: 19-Aug-2014 W/O #: RPR36039 Signed: RICHARD JOHNSON

Allison

GT-2785B (5/95)

ASSEMBLY RECORD
COMPRESSOR ASSEMBLY

Part V
Page No. ______

Compressor Serial Number CAC- 44393 Engine Model 250- C47M B

		INSTALLED			REMOVED		
			Compressor	Component		Compressor	Component
Nomenclature	Part Number / Serial Number	Date	TT / CYCLES	TT / CYCLES	Date	TT / CYCLES	TT / CYCLES
IMPELLER	23065591 / JY99180R	10-9-97	0.0	0.0	3-7-05	1921.1 / 1201	1921.1 / 1201
IMPELLER	23065591 / JY99180R	3-7-05	1921.1 / 1201	1921.1 / 1201			

Allison

GT-2785B (5/95)

ASSEMBLY RECORD
COMPRESSOR ASSEMBLY

Part V
Page No. ______

Compressor Serial Number CAC- 44393 Engine Model 250-C47M B

Nomenclature	Part Number / Serial Number	INSTALLED Date	INSTALLED Compressor TT / CYCLES	INSTALLED Component TT / CYCLES	REMOVED Date	REMOVED Compressor TT / CYCLES	REMOVED Component TT / CYCLES

CYCLE RECORD
COMPRESSOR ASSEMBLY

Part VI
Page No. _____

F-9387T

Compressor Serial Number CAC- 44393 Engine Model 250-C47~~M~~B

	INSTALLED				REMOVED			
Aircraft S/N Engine S/N	Date	Compressor TT	Cycle Count Current Cycles Cycle Limit	Engine CYCLES at Installation	Date	Compresor TT	Cycle Count Current Cycles Cycle Limit	Engine CYCLES at Removal
CAE-847840	10-9-97	0.0			3-7-05	1921.1	CSN: 1201 CSO: NEW	1201
CAE 847840	3-7-05	1921.1	CSN: 1201 CSO: NEW	1201	18 Sep 06	2428.1	CSN: 1589 CSO: new	1589
CAE-847840	27 nov 06	2428.1	CSN: 1589 CSO: new	1589				

Allison

F-9387T

CYCLE RECORD
COMPRESSOR ASSEMBLY

Part VI
Page No. ______

Compressor Serial Number CAC-44393 Engine Model 250-C47M B

	INSTALLED				REMOVED			
Aircraft S/N / Engine S/N	Date	Compressor TT	Cycle Count: Current Cycles / Cycle Limit	Engine CYCLES at Installation	Date	Compresor TT	Cycle Count: Current Cycles / Cycle Limit	Engine CYCLES at Removal

ACROHELIPRO Global Services Inc.

SHIM RECORD CARD

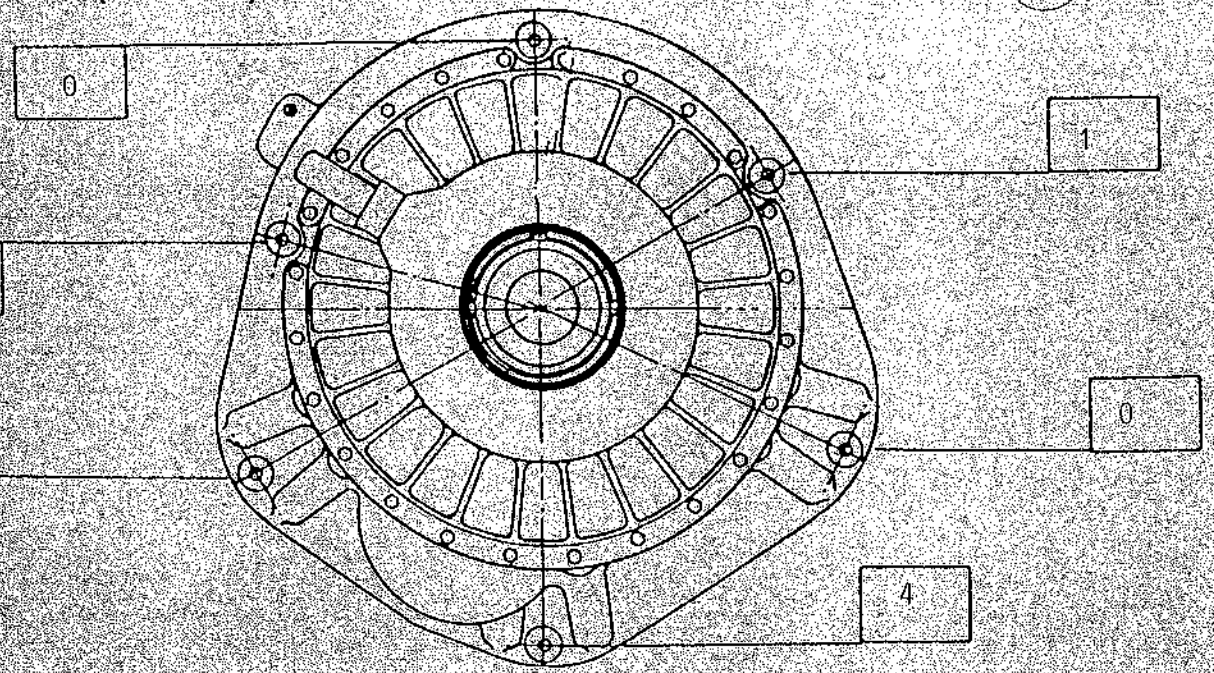
SERIES III & IV COMPRESSOR ASSEMBLY

W/O: 26-20351

Compressor Serial Number CAC-44393 Engine Model 250-C47M

231-91
SCA
T-15

NUMBER OF .002" (6871162) SHIMS REQUIRED.



ACRO #201 (0904)

Allison

F-2782CT (F)

SERVICE RECORD
GEARBOX ASSEMBLY

Part I
Page No. ______

Gearbox Serial Number CAG- 47840

Engine Model 250-C47M

	INSTALLED		REMOVED		
Aircraft S/N / Engine S/N	Date	TT / TSO	Date	TT / TSO	Reason
CAE-847840	10-9-97	0.0 / NEW	18 Sep 2006	2428.1 / new	Repair
CAE-847840	27 Nov 2006	2428.1 / new	6/18/14	2428.1 / New	Convenience
CAE 847840	8/19/14	2428.1 / New			

F-2782CT (B)

TRANSFER RECORD

Part II
Page No. _____

Gearbox Serial Number CAG- 47840 Engine Model 250- C47M

TRANSFERRED/SHIPPED					RECEIVED	
Date	From	To	Gearbox Time		Date	Organization
			Since O/H	Total		
10-9-97	ALLISON	McDONNELL	NEW	0.0		

GT-2787T

AD NOTE COMPLIANCE
AND
CEB MODIFICATION RECORD
GEARBOX ASSEMBLY

Part III
Page No. _____

Gearbox Serial Number CAG- 47840 Engine Model 250- C47M

AD #	Applicable CEB #	Date / Hours @ Comp.	Method of Compliance	One Time	Recurring	Next Comp. Date / Next Comp. @ Hrs	Signature and Certificate Number
			SEE ENCLOSED LIST				
	CEB 72-6019 R4	27 Nov 06 / 2428.1	Oil Filter housing- Add Bronze Bushings to				ELIPRO SERVICES
			"Oil In", "Oil Out" & "Bypass" Ports	X			
	CEB 72-6028 R1	27 Nov 06 / 2428.1	Release of New Helical Torquemeter Gearshaft				
			Assy & Internal Retaining	X Rings			
	CEB 72-6049	27 Nov 06 / 2428.1	Release of N.Pinion and Torquemeter Gear seat,				231-91 SCA T-15
			low speed gearbox	X			
	CEB 72-6052	27.Nov 06 / 2428.1	Replacement of Breather Gear Seal	X			
	CSL 6098 R1	27 Nov 06 / 2428.1	Gearbox Bore Alignment Check	X			

GT-2787T

AD NOTE COMPLIANCE
AND
CEB MODIFICATION RECORD
GEARBOX ASSEMBLY

Part III
Page No. _____

Gearbox Serial Number CAG-47840 Engine Model 250-C47M

AD #	Applicable CEB #	Date / Hours @ Comp.	Method of Compliance	One Time	Recurring	Next Comp. Date / Next Comp. @ Hrs	Signature and Certificate Number
	CEB 72-6009	8/19/14 / 2428.1 TT	ENGINE OC MODULE CONVERSION (C47M-C47B)				YRR449IL

F-2784B (5/95)

INSPECTION - MAINTENANCE - OVERHAUL RECORD
GEARBOX ASSEMBLY

Part IV
Page No. _____

Gearbox Serial Number CAG- 47840 Engine Model 250- C47M

Date	Gearbox Time		Remarks	Signature and Certificate No.	Organization
	Since OH	Total			
3-7-05	NEW	1921.1	Time continued repair was performed on		
			gearbox IAW Rolls-Royce O/H/M CSP 22001,		
			2nd edition; revision 5, dated 15 September		
			2004. Details on file at this work statio		
			under wo# 4313.	P.N. Meredith	NZUR892L Premier Turbines
27 Nov 2006		2428.1	Repaired and tested IAW CSP 22001, Ed 2,	ACROMELIPRO	231-91 SCA T-15
			Rev 7, dated 15 Sep 2006.		

F-2784B (5/95)

INSPECTION - MAINTENANCE - OVERHAUL RECORD
GEARBOX ASSEMBLY

Part IV
Page No. _____

Gearbox Serial Number CAG- 47840 Engine Model 250- C47M

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

Allison

GT-2782DT(F)

SERVICE RECORD
TURBINE ASSEMBLY

Part I
Page No. _____

Turbine Serial Number CAT-44382 Engine Model 250-C47B/3

Aircraft S/N / Engine S/N	INSTALLED Date	INSTALLED TT / TSO	REMOVED Date	REMOVED TT / TSO	Reason
		0.0	5/09/07	1282.2	REPAIR
CAT-847840	10-9-97	NEW		NEW	
		1282.2	3-7-05	1921.1	Over-haul
CAT-847840	5/28/07	NEW		NEW	TC: 1201
	3-7-05	1921.1	18 Sep 2006	2428.1	Repair
CAT-847840		0.0		507.0	
	27 Nov 2006	2428.1	13 Apr 09	2428.1	Repair
CAT-847840		507.0		507.0	
	22 May 09	2428.1	6/18/14	2428.1	Convenience
CAT-847840	8/19/14	507.0		507.0	

TRANSFER RECORD

Allison

GT-2762DI(B)

Part II
Page No.

Turbine Serial Number CAT#4382 Engine Model 250-C47M

TRANSFERRED/SHIPPED					RECEIVED	
			Turbine Time			
Date	From	To	Since O/H	Total	Date	Organization
10-9-97	ALLISON	McDONNELL	NEW	0.0		

GT-2788AT

AD NOTE COMPLIANCE
AND
CEB MODIFICATION RECORD
TURBINE ASSEMBLY

Part III
Page No. _____

Turbine Serial Number CAT44382 Engine Model 250-C47M

AD #	Applicable CEB #	Date / Hours @ Comp.	Method of Compliance	One Time	Recurring	Next Comp. Date / Next Comp. @ Hrs	Signature and Certificate Number
			SEE ENCLOSED LIST				
	CEB A-72-6037	5/28/02 / 1282.2	INSPECTION AND REPLACE-MENT OF 1ST SYAGE NOZZLE SHIELD P/N 23062752				DALLAS AIRMOTIVE, INC. YRRR491L
	CSL A-6012	5/28/02 / 1282.2	N1 SHAFTING INSPECTION				DALLAS AIRMOTIVE, INC. YRRR491L
	CEB-A-72-6037 TT: 1921.1	3-7-05 / 0.0	Inspection and replacement of 1st stage nozzle shield P/N 23062752				P.N. Meredith NZUR892L Premier Turbines
	CEB-A-72-6048 TT: 1921.1	3-7-05 / 0.0	Inspection of 4th stage wheel P/N 23066744				P.N. Meredith NZUR892L Premier Turbines
	CEB-A-72-6050 TT: 1921.1	3-7-05 / 0.0	Inspection of 3rd stage wheel P/N 6898663				P.N. Meredith NZUR892L Premier Turbines
	CSL-A-6012 TT: 1921.1	3-7-05 / 0.0	N1 shafting inspection.Required every 2000 hours.				P.N. Meredith NZUR892L Premier Turbines
	72-6023 TT: 1921.1	3-7-05 / 0.0	Re-coating of inner power turbine shaft				P.N. Meredith NZUR892L Premier Turbines

GT-2788AT

AD NOTE COMPLIANCE
AND
CEB MODIFICATION RECORD
TURBINE ASSEMBLY

Part III
Page No. ______

Turbine Serial Number CAT- 44382 Engine Model 250- C47B

AD #	Applicable CEB #	Date / Hours @ Comp.	Method of Compliance	One Time	Recurring	Next Comp. Date / Next Comp. @ Hrs	Signature and Certificate Number
	A-72-6037 R2	27 Nov 2006 / 2428.1	Inspection and replacement of first-stage nozzle				ACROHELIPRO GLOBAL SERVICES
		27 Nov 2006	shield (23073566 fitted)	X			SCA
	A-72-6060	27 Nov 2006 / 2428.1	Power turbine outer shaft KU95506	X			VECTOR AEROSPACE HELICOPTER SERVICES INC.
	CEB 72-6020 R1	22 May 09 / 2428.1	GP Turbine Support - Replace	✓			
	CEB 72-6037	22 May 09 / 2428.1	Inspection & Replacement of 1st STG Nozzle Shield	✓			
	CEB A72-6054 R2	22 May 09 / 2428.1	Found Embodied	✓			
AD 2006-20-07		22 May 09 / 2428.1	Found Embodied	✓			
	CSL 6003 R6	22 May 09 / 2428.1	Model 250 Reporting		✓	Next event	SCA T27
	CEB 72-6009	8/19/14 / 2428.1	Engine or Module conversion (C47M to C47B)				4RRA491L

Allison

INSPECTION - MAINTENANCE - OVERHAUL RECORD
TURBINE ASSEMBLY

Part IV
Page No. ______

F-2784D (5/95)

Turbine Serial Number CAT44382 Engine Model 250-C47M

Date	Turbine Time		Remarks	Signature and Certificate No.	Organization
	Since OH	Total			
5/28/02	[illegible]	1282.2	INSPECTED AND REPAIRED FOR F.O.D. AND		
	CSO: NEW	CSN: 767	EROSION, REPLACED 1ST STAGE WHEEL, TESTED		
			AND PRESERVED. ALL WORK ACCOMPLISHED		
			I/A/W O/H/M CSP22001 2ND ED. 3RD REV. AND		
			DAI CURRENT WORK SPECIFICATIONS. DETAILS	[signature]	DALLAS AIRMOTIVE, INC. YR6R491L
			ON FILE UNDER WORK ORDER TR0846.		
			TIEBOLT P/N 23008030 S/N NC77053 ACTUAL		
			7.572 FREE LENGTH .016.		
			Next page please		

F-2784D (5/95)

INSPECTION - MAINTENANCE - OVERHAUL RECORD
TURBINE ASSEMBLY

Part IV
Page No.

Turbine Serial Number CAT 44382   Engine Model 250-C47M

Date	Turbine Time		Remarks	Signature and Certificate No.	Organization
	Since OH	Total			
3-7-05	0.0	1921.1	Overhauled turbine IAW Rolls-Royce O/H/M		
	0.0	1201	CSP 22001, 2nd edition, revision 5, dated		
			15 September 2004. Complied with CEB-A-72-6037,		
			CEB-A-72-6048, CEB-A-72-6050, CSL-A-6012		
			& 72-6023. Replaced 1st and 2nd stage		
			wheels. Tie bolt P/N 23008030 S/N NC7705		
			free length: 7.372; actual stretch length		
			7.3885. Details on file at this work	[signature]	
			station under wo# 4313.	P.N. Meredith	NZUR892L Premier Turbines
27 Nov 06	507.0	2428.1	Repaired and tested IAW CSP 22001, Ed 2	AEROHELIPRO [signature]	[stamp]
			Rev 7, dated 15 Sep 06		

Inspection - Maintenance - Overhaul Record
TURBINE ASSEMBLY

Rolls-Royce

Part IV
Page No. _____

Turbine Serial Number CAT- 44382 Engine Model 250- C47B

Date	Turbine Time		Remarks	Signature and Certificate No.	Organization
	Since OH	Total			
22 May 09	507.0	2428.1	Repaired & Tested IAW RR OHM CSP 22001,	VECTOR AEROSPACE HELICOPTER SERVICES INC.	
	cso: 388	csnl 1589	2E, R9, dated 15 Sept. 2008. PMA P/N		
			23032345 Installed.		
			Vector W/O# 29-06163	T-27	

F-2784D (8/99)

Inspection - Maintenance - Overhaul Record
Turbine Assembly

Rolls-Royce

Part IV
Page No. _____

Turbine Serial Number CAT- _____ Engine Model 250- _____

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

F-2784D (8/99)

Allison

ASSEMBLY RECORD
TURBINE ASSEMBLY

F-2785DT

Turbine Serial Number CAT-44382

Engine Model 250-C47M

Part V
Page No.

Nomenclature	Part Number / Serial Number	INSTALLED Date	INSTALLED Turbine TT CYCLES	INSTALLED Component TT CYCLES	REMOVED Date	REMOVED Turbine TT CYCLES	REMOVED Component TT CYCLES
1ST STG WHL	23053299	10-9-97	0.0	0.0	5/09/02	1282.2	1282.2
	X140399					767	767
2ND STG WHL	23032280	"	0.0	0.0	3-7-05	1921.1	1921.1
	HX127087					1201	1201
3RD STG WHL	6898663	"	0.0	0.0			
	HX91777R						
4TH STG WHL	23066744	"	0.0	0.0			
	HX74053						
1ST STAGE WHL	23053299	5/28/02	1282.2	NEW	3-7-05	1921.1	639.9
	X517435		767	NEW		1201	434
1st stage wheel	23053299	3-7-05	1921.1	NEW			
	X545828		1201	NEW			
2nd stage wheel	23032280	3-7-05	1921.1	NEW			
	X538834		1201	NEW			

ASSEMBLY RECORD
TURBINE ASSEMBLY

F-2785DT

Part V

Turbine Serial Number CAT-44382 Engine Model 250-C47M Page No.

Nomenclature	Part Number / Serial Number	INSTALLED Date	INSTALLED Turbine TT CYCLES	INSTALLED Component TT CYCLES	REMOVED Date	REMOVED Turbine TT CYCLES	REMOVED Component TT CYCLES

Allison

F-9386T

CYCLE RECORD
TURBINE ASSEMBLY

Part VI
Page No. _____

Turbine Serial Number CAT-44382 Engine Model 250-C47M

	INSTALLED				REMOVED			
Aircraft S/N Engine S/N	Date	Turbine TT	Cycle Count Current Cycles Cycle Limit	Engine CYCLES at Installation	Date	Turbine TT	Cycle Count Current Cycles Cycle Limit	Engine CYCLES at Removal
CAT-847840	10-9-97	0.0			3-7-05	1921.1	CSN: 1201 CSO: NEW	1201
CAE-847840	3-7-05	1921.1	CSN: 1201 CSO: 0.0	1201	18 Sep 06	2428.1	CSN: 1589 CSO: 388	1589
CAE-847840	27 Nov 06	2428.1	CSN: 1589 CSO: 388	1589	13 Apr 09	2428.1	CSN: 1589 CSO: 388	1589
CAE-847840	22 May 09	2428.1	cycran: 2612					

Allison

CYCLE RECORD
TURBINE ASSEMBLY

F 9386T

Part VI
Page No. ____________

Turbine Serial Number CAT-44382 Engine Model 250-C47M

	INSTALLED				REMOVED			
Aircraft S/N / Engine S/N	Date	Turbine TT	Cycle Count: Current Cycles / Cycle Limit	Engine CYCLES at Installation	Date	Turbine TT	Cycle Count: Current Cycles / Cycle Limit	Engine CYCLES at Removal

VECTOR AEROSPACE HELICOPTER SERVICES NORTH AMERICA

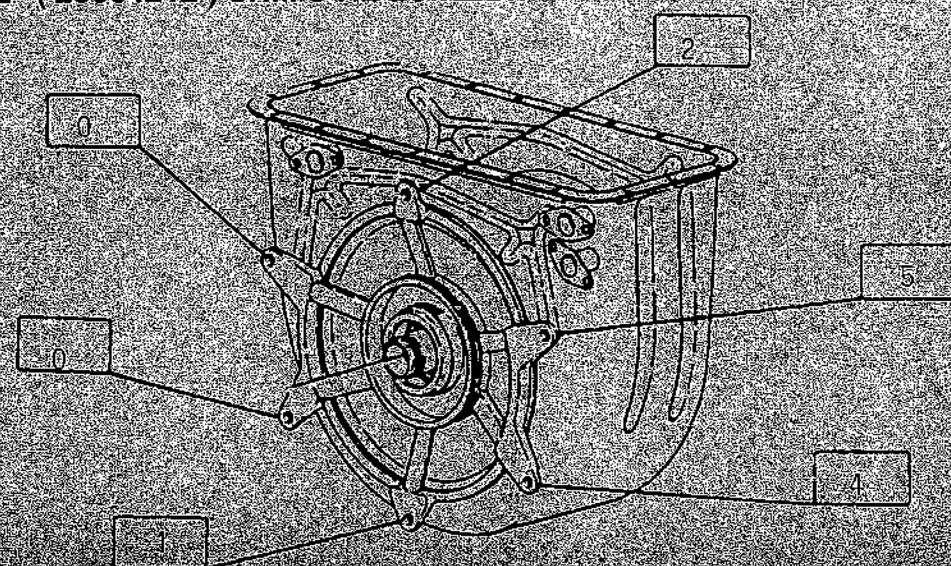
SHIM RECORD CARD

SERIES III & IV TURBINE ASSEMBLY

Turbine Serial Number CAT-44382 Engine Model 250-C47B

Vector W/O# 29-06163

NUMBER OF .002" (23004212) SHIMS REQUIRED.



Rolls-Royce

LIFE LIMITED PART LOG CARD

LIFE LIMITED PART NAME 3RD STAGE WHEEL			PART NUMBER 6898663					SERIAL NUMBER HX91777R
Date Installed	**Date Removed**	**Engine and Module S/N**	**Engine Model**	**Hours**	**Cycles**	**Overspeed Events * (as app)**	**Comments**	**Signature And Certificate #**
10-09-97		CAE-847840		0.0	0			
		CAT-44382	250-C47M					

*For PT Wheel Overspeed Cycles, record event date and event maximum % on the Comments Line.
*This card should accompany the part when removed from engine or module.

GT-12017 (4-05)

Rolls-Royce

LIFE LIMITED PART LOG CARD

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

The 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 started 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)
- Overspeed 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, inspection, CEB compliance, repair, scrap date, etc.)
- Signature and Certificate #

Rolls-Royce

LIFE LIMITED PART LOG CARD

LIFE LIMITED PART NAME 4TH STAGE WHEEL			PART NUMBER 23066744					SERIAL NUMBER HX74053
Date Installed	**Date Removed**	**Engine and Module S/N**	**Engine Model**	**Hours**	**Cycles**	**Overspeed Events * (as app)**	**Comments**	**Signature And Certificate #**
10-09-97		CAE-847840 CAT-44382	250-C47M	0.0	0			

*For PT Wheel Overspeed Cycles, record event date and event maximum % on the Comments Line.
*This card should accompany the part when removed from engine or module.

GT-12017 (4-05)

Rolls-Royce

LIFE LIMITED PART LOG CARD

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

The 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 started 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)
- Overspeed 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, inspection, CEB compliance, repair, scrap date, etc.)
- Signature and Certificate #

Service Accessory Record

Rolls-Royce

Nomenclature Hydromechanical Unit

Component serial number ALM00044

Part I /

Page No. _____

Engine Model 250-C47M

Installed					Removed			
Date	Engine S/N	A/C S/N Reg. #	Accy. Time Since OH	Accy. Time Total	Date	Accy. Time Since OH	Accy. Time Total	Reason
10/31/05	847840	N602BP EN025.	New	0.0				

GT-11778(F) 5/00

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

Rolls-Royce

Part II

Nomenclature _____ Page No. _____

Component serial number _____ Engine Model 250-_____

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		

GT-11778 (B) 5/00

Service Accessory Record

Rolls-Royce

Part I

Nomenclature Fuel Nozzle

Page No. _____

Component serial number 1RM06304

Engine Model 250-C47

Installed					Removed			
Date	Engine S/N	A/C S/N Reg. #	Accy. Time Since OH	Accy. Time Total	Date	Accy. Time Since OH	Accy. Time Total	Reason
			507.0	2428.1				

GT-11778(F) 5/00

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

Rolls-Royce

Part II

Nomenclature Fuel Nozzle Page No. _____

Component serial number 1RM06304 Engine Model 250- C47

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 29/06	23077067	507.0	2428.1	Repaired and Tested IAW CMM CSP22001 Rev. 7 on AHGS w/o 26-23202.	

GT-11778 (B) 5/00

JI1289
Rev. 05-05-97

PACKING ROOM CHECK SHEET

COMPRESSOR UNIT
250-C40B, C47B, C47M

COMPRESSOR S/N CAC- 44393
~~250-C40B P/N 23065593~~
250-C47M P/N 23065593
~~250-C47B P/N 23065593~~

Date 10-9-97 Contract or P/O _____
Date Shipped _____ Destination _____ S.O. _____
Shipped with: Engine S/N CAE- 847840 TSLO NEW TT NEW

PART NAME	PART NO.	S/N
Compressor Rotor	23065592	45249
Impeller Assembly	23065591	JY99180R
Spur Adapter Gearshaft	23056634	CG121292

NEW (X) OVERHAUL ( ) REPAIR ( ) MODIFICATION ( )

Inspector R. Klemm Certified Inspector _____

JI-1290
Rev. 05-13-96

PACKING ROOM CHECK SHEET
TURBINE UNIT
250-C40B, C47B, C47M

TURBINE S/N CAT-44382
~~250-C40B P/N 23063354~~
~~250-C47B P/N 23063354~~
250-C47M= P/N 23063354

DATE 10-9-97 CONTACT OR P/N _____ TSLO NEW TT NEW
DATE SHIPPED _____ DESTINATION _____ S.O. _____
SHIPPED WITH: ENGINE CAE- 847840

PART NAME	PART NO.	S/N	PART NAME	PART NO.	S/N
GAS TURBINE ROTOR ASSY.	23064610	33078	POWER TURBINE ROTOR ASSY.	23064627	45447
1ST STAGE WHEEL	23053299	X140399	3RD STAGE WHEEL	6898663	HX91777R
2ND STAGE WHEEL	23032280	HX127087	4TH STAGE WHEEL	~~6892764~~ 23066744	HX74053

NEW (X) OVERHAUL ( ) REPAIR ( ) MODIFICATION ( )

Inspector R. K[illegible] Certified Inspector _____

JI-1288
Rev. 07-28-97

PACKING ROOM CHECK SHEET
GEAR BOX
250-C40B, C47B, C47M

GEAR BOX S/N CAG- 47840
~~250-C40B P/N 23063306~~
~~250-C47B P/N 23063355~~
250-C47M P/N 23066745

DATE 10-9-97 CONTRACT OR P/O _____

DATE SHIPPED _____ DESTINATION _____ S.O. _____

SHIPPED WITH: ENGINE CAE- 847840 TSLO NEW TT NEW

PART NAME	PART NO.	S/N

NEW (X) OVERHAUL ( ) REPAIR ( ) MODIFICATION ( )

Inspector R. K[illegible] Certified Inspector _____

JI-1287
Rev. 05-05-97

PACKING ROOM CHECK SHEET
ENGINE
250-C40B/C47B/C47M

ENGINE S/N CAE-847840
~~250-C40B P/N 23063378~~
~~250-C47B P/N 23065392~~
250-C47M P/N 23065460

Date 10-9-97 Contract or P/O
Weight 272.0 TSLO NEW TT NEW
Date Shipped Destination S.O.
Shipped with:G/B S/N CAG- 47840 Comp.S/N CAC-44393 Turb.S/N CAT- 44382

PART NAME	PART NO.	S/N	PART NAME	PART NO	S/N
FADEC CONTROL ASSY (ECU)	~~23064895~~ 23068338 ~~23064895~~	JG7ALW0064	FUEL NOZZLE	6899001	IVM03150
PERMANENT MAGNET ALTERNATOR (PMA)	23064128 ~~23064129~~	96500212	BLEED VALVE	23005366	FF57527
HYDROMECHANICAL UNIT (HMU)	23068651	JGALM0471	N1 PICKUP	23054163	SNA391
COMBINED ENGINE FILTER ASSY(CEFA)	~~23066672~~ 23066671	JK-0262	N2 PICKUP	23054164	SNA438
ELECTRICAL HARNESS	23064230 ~~23064795~~ ~~23065005~~	0090	ANTI-ICE VALVE	6899080	AE17009
CIT PROBE	23056915	00558	N2 O/S VALVE ASSY	23007827	5067
CECO FUEL PUMP	~~113415-02A2~~ 113415-02C2	JGALP0566	T/M TRANSDUCER	23056914	5928-8-227

NEW (X) OVERHAUL ( ) REPAIR ( ) MODIFICATION ( )

Inspector RK Certified Inspector

TIME	10:50
TRUE BAR.	29.41
OUTSIDE TEMP.	82°
REL. HUMIDITY	48%

Allison Engine Company
P.O. Box 420
Indianapolis, Indiana 46206-042

	DATA REQUIRED	UNITS	1	2	3	4	5	6	7	8	9	10	11	12
GENERAL	TIME MIL. CLOCK	hh:mm	1054	1058	11 03	11 :12	11 :20	11 :28	11 36	11 :46	11 56	1202	:	:
	POWER SETTING		STGI	C	W	1110	1190	1240	1290	1340	DIRECT	GI		
	GAS PRODUCER SPEED (N1)	rpm	31245	O	A	46634	48304	49299	50058	51260	TO	31154		
	DYNE SPEED	rpm	5131	L	R	6007	6009	6023	6024	6026	1110	5017		
	N2 O'SPEED CK. OK			D	M									
HORSEPOWER	DYN. FORCEMETER	ft/lb	5.4	O	O	3370	416.6	464	5138	5900		5.8		
	DYN. FORCEMETER	hp		I	I									
	ENGINE TORQUEMETER	psig	.5	C	L	545	674	750	830	952		1.6		
	CORR. SHAFT HORSEPOWER	hp				376.7	493.7	562.5	611.5	700.2				
				S	T									
	Humidity			C	O	48	48	48	48	48				
FUEL	FUEL INLET PRESSURE	psig		A		18	18	17	17	16				
	OBSERVED FUEL FLOW	lb/hr	100	D	180°	255	295	320	345	387		95		
	FUEL INLET TEMP.	°F				80	81	81	81	82				
	CORR. FUEL FLOW	lb/hr		FA		257.3	300.9	326.8	352.4	395.2				
				TO										
COMPRESSOR	ANTI-ICE LINE TEMPERATURE	°F		50000		98	107	115	122	124				
	AVG. COMP. INLET PRESSURE	in H2O		OK		29.00	28.96	28.94	28.93	28.91				
	EXH. STATIC PRESSURE	in H2O				29.41	29.43	29.45	29.44	29.44				
	AVG. COMP. INLET TEMP.	°F	81	50000		84	85	85	86	87		87		
	TEST CELL REF. TEMP.	°F		TO		86	88	89	89	92				
	VENTURI Δ P	psia		40000		25.4	28.2	29.6	31.0	32.8				
	VENTURI ATM. PRESS.	psia		OK										
	VENTURI REF. TEMP.	°F												
	PLENUM Δ P	in H2O												
	COMP. DISCHARGE TEMP.	°F				557	592	614	631	660				
	COMP. DISCHARGE PRESSURE	psig	78			197	218	229	238	253		77		
	GEARBOX CASE PRESSURE	in H2O	5									3		
	COMP. SEAL VENT PRESSURE	in Hg	1.8			6.7	7.8	8.4	9.0	10.0		1.0		
TURB.	IND. G.P.T.O.T.	°F	1311			1111	1192	1246	1298	1378		864		
	CORR. G.P.T.O.T.	°F	856			1033	1114	1162	1208	1285				
OIL	MAIN OIL PRESSURE	psig	114			124	124	125	125	126		112		
	SCAVENGE OIL PRESSURE	psig				30	30	31	31	32				
	OIL INLET PRESSURE	psig				.5	.5	.5	.5	.5				
	OIL OUTLET TEMPERATURE	°F				246	252	257	260	266				
	OIL INLET TEMPERATURE	°F	122			186	187	187	187	189		186		
	OIL FLOW TIME (5 lb)	min												
	OIL FLOW	lb/min												
VIBRA.	DYNE VIBRATION	in/sec	.10			.21	.21	.19	.17	.17		.07		
	GEARBOX VIBRATION	in/sec	.07			.08	.08	.08	.08	.08		.06		
	TURBINE VIBRATION	in/sec	.06			.06	.08	.08	.08	.08		.04		
	COMPRESSOR VIBRATION	in/sec	.12			.12	.13	.15	.16	.15		.11		
	START ACCEL & DECEL TIME	min	.504											
	START NUMBER		3											
	DOWN											12:09		
												1:15		

OIL CONSUMPTION					FUEL DRAINAGE			
OIL AT:	TOTAL	TIME	ELAPSED TIME	TOTAL OIL CONS lb/hr	COMB. CHAM	cc/min	FUEL PUMP DRAIN	ø
START	42.3	11:12			EXH. COL. DRAIN	cc/min	BURNER DRAIN VALVE	OK
FINISH	42.3	12:00	1:48	0	FIRE SHIELD DRAIN	cc/min	TOTAL FUEL GAL.	106.0

ENGINE TEST LOG
250 SERIES

ROLLS ROYCE AEROSPACE GROUP

TEST No. 5923

ENGINE S/N 847840	MODEL C47m
TYPE TEST SC4.B	DATE 10-8-97
LOG SHEET No. 2	STAND 148
P.T.S. No. 899-A	OIL TYPE: 23699
TYPE FUEL JET-A	
LHV 18576.5	SP. GR. .8137

	14	15	16	17	18	19	20	21	22	23	24	25
	:	:	:	:	:	:	:	:	:	:	:	:

CUSTOMER MON. N1 N2

	COL.	N1	N2
IDLE			
CC			
TO			

REMARKS:

MAG. PLUG

	COL.	LOC.	COND.	ACTION
1				
2				
3				
4				

SEA LEVEL - STATIC (UNITY RAM) PERFORMANCE

SETTING												
TOT °F	1120	1190	1239	1280								
hp	505.3	590.2	648.1	695.5								
MIN. ALLOW	450	540	600	650								
% VAR.	12.290	9.305	8.015	6.996								
SFC	.605	.582	.571	.565								
MAX. ALLOW	.643	.609	.594	.584								
%VAR.	-5.939	-4.447	-3.836	-3.313								
CORR hp												
SFC: MAX/CORR												
WFC: MAX/CORR												
CORR hp												
SFC: MAX/CORR												
WFC: MAX/CORR												

~~F/C S/N~~ JG7ALW	~~P.T. GOV S/N~~	LOG SHT 2	RUN COMP. ✓ RUN INCOMP.
FADEC S/N 0064	CIT (T1) S/N 00558	No. STARTS 3	ROUTED TO STORAGE
T/M CAL	hp= psig	TOTAL TIME 2.56	OPER. [illegible]
COMP SEAL VENT ORIF DASH No. -4		DATE OF ACCEPT 10-8-97	OPER.

TIME														
TRUE BAR.														
OUTSIDE TEMP.														
REL. HUMIDITY														

Allison Engine Company
P.O. Box 420
Indianapolis, Indiana 46206-04

	DATA REQUIRED	UNITS	1	2	3	4	5	6	7	8	9	10	11	12
GENERAL	TIME MIL. CLOCK	hh:mm	0704	0708	0731	0848	0857	0900	0904	0909	→	0920	0929	0931
	POWER SETTING		STIGI	S	6I	STIGI	UIBSCN	FA	ANTICE	ENG SEN	Comp.	MAN.	MODE	ESC
	GAS PRODUCER SPEED (N1)	rpm	31245	E	31172	31227	50726	34596	49996	47017	A	32514	50878	50872
	DYNE SPEED	rpm	5106	A	5088	5115	6007	6017	6006	6007	9208	5448	6022	6008
	MOT 10,000\ MOT 30 SEC\			L							B	6I	TO	
	START 20000										46971			
HORSEPOWER	DYN. FORCEMETER	ft/lb	5.4	B	6.0	5.4	5900	6.8	4990	365.8	C	6.0	5900	5900
	DYN. FORCEMETER	hp		R							47017			
	ENGINE TORQUEMETER	psig	5	E	2.5	.3	950	1.8	80.5	59.2	OK	2.2	950	95.2
	CORR. SHAFT HORSEPOWER	hp		A										
	BLEED VALVE CLOSURE			K							D			
	N, 44215 CIT 76										49.79			
FUEL	FUEL INLET PRESSURE	psig		I			17		337		E		17	
	OBSERVED FUEL FLOW	lb/hr	101	N	95	96	385	105	342	269	30629	98	385	385
	FUEL INLET TEMP.	°F		3000			78		342		F		78	
	CORR. FUEL FLOW	lb/hr		↓							6007			
	HUMIDITY			41000			72%		107		OK		72%	
COMPRESSOR	ANTI-ICE LINE TEMPERATURE	°F		↓			114						124	
	AVG. COMP. INLET PRESSURE	in H2O		42000			28.93		31.6		G		28.93	
	EXH. STATIC PRESSURE	in H2O		↓			29.47				79.29		29.48	
	AVG. COMP. INLET TEMP.	°F	74	43000	76	77	77	80	79	80	H	80	80	80
	TEST CELL REF. TEMP.	°F		↓			80				80		83	
	VENTURI Δ P	psia		44000			32.8				OK		32.8	
	VENTURI ATM. PRESS.	psia		↓										
	VENTURI REF. TEMP.	°F		45000							I			
	PLENUM Δ P	in H2O		↓							62.7			
	COMP. DISCHARGE TEMP.	°F		46000			642				J		647	
	COMP. DISCHARGE PRESSURE	psig	79	↓	78	78	254	98	265	205	3658	83	254	254
	GEARBOX CASE PRESSURE	in H2O	.8	47000	1.4	1.5	—	1.04	—	—	OK		—	—
	COMP. SEAL VENT PRESSURE	in Hg	1.9	↓	1.1	1.7	12.2	1.1	11.2	7.0			10.7	10.0
				48000					265		K			
TURB.	IND. G.P.T.O.T.	°F	1322/840	↓	823	1300/836	1345	829	1261	1120	1259	830	1341	1340
	CORR. G.P.T.O.T.	°F		49000							L			
				↓							1120			
				49300							OK			
OIL	MAIN OIL PRESSURE	psig	121	↓	112	114	128	119	124	124		112	126	126
	SCAVENGE OIL PRESSURE	psig		6I			33						33	
	OIL INLET PRESSURE	psig					.4						.5	
	OIL OUTLET TEMPERATURE	°F					246						261	
	OIL INLET TEMPERATURE	°F	118		185	140	180	185	185	186		185	187	187
	OIL FLOW TIME (5 lb)	min												
	OIL FLOW	lb/min												
VIBRA.	DYNE VIBRATION	in/sec	.08		.09	.09	.21	.19	.25	.33		.10	.18	.18
	GEARBOX VIBRATION	in/sec	.06		.07	.07	.08	.07	.09	.08		.06	.08	.08
	TURBINE VIBRATION	in/sec	.09		.06	.08	.09	.06	.10	.09		.04	.10	.09
	COMPRESSOR VIBRATION	in/sec	.10		.14	.13	.13	.12	.16	.11		.11	.15	.15
	START ACCEL & DECEL TIME	min	.538			.516								
	START NUMBER		1		-	2								
	DOWN				0138									
					34									

OIL CONSUMPTION					FUEL DRAINAGE			
OIL AT:	TOTAL	TIME	ELAPSED	TOTAL OIL	COMB. CHAM	cc/min	FUEL PUMP DRAIN	
START			TIME	CONS lb/hr	EXH. COL. DRAIN	cc/min	BURNER DRAIN VALVE	OK
FINISH					FIRE SHIELD DRAIN	cc/min	TOTAL FUEL GAL.	

ENGINE TEST LOG
250 SERIES

AEROSPACE GROUP

TEST No. _____

ENGINE S/N 847840	MODEL C47M		
TYPE TEST SCH. B	DATE 10-8-97		
LOG SHEET No. 1	STAND 148		
P.T.S. No. 899-A	OIL TYPE: 23699		
TYPE FUEL JET-A			
LHV	SP. GR.		

CUSTOMER MON. N1 N2

	COL.	N1	N2
IDLE			
CC			
TO			

REMARKS:
COL#2 FUEL LINE LEAK from HMU TO CEFA & HMU TO FIRE SHIELD. FIXED.

COL#5 FUEL LINE LEAK from HMU TO SEFA. FIXED.

MAG. PLUG

	COL.	LOC.	COND.	ACTION
1				
2				
3				
4				

	14	15	16	17	18	19	20	21	22	23	24	25
	09:40	09:46	09:45	09:47	09:47	0950	0951	:	:	:	:	:
	ACC	%Torq	FA	ACC	%Torq	DECEL	GI					
		47964	34560		47891	TO	31087					
		6006	6032		6009	35000	5043					
		70%	DECEL		70%							
		Torq	35000		Torq							
		4134	6.6		4172		5.4					
	96.0	67.0	1.0	95.5	67.0		1.5					
		295	10.6		294		9.5					
		80	80		80		81					
		216	93		216		77					
		—	.9		—		.8					
		9.3	1.1		9.4		.8					
		1187	835		1189		840					
		124	119		124		112					
		186	186		186		186					
		.18	.14		.19		.06					
		.08	.07		.08		.06					
		.08	.05		.08		.04					
		.12	.13		.13		.11					
	.055		.054	.053		.289						
							09:55					

SEA LEVEL - STATIC (UNITY RAM) PERFORMANCE

SFC: MAX/CORR	WFC: MAX/CORR	CORR hp	SFC: MAX/CORR	WFC: MAX/CORR	CORR hp

SETTING	TOT °F	hp	MIN. ALLOW	% VAR.	SFC	MAX. ALLOW	%VAR.

F/C S/N	P.T. GOV S/N	LOG SHT 1	RUN COMP.	RUN INCOMP.	
FADEC S/N	CIT (T1) S/N	No. STARTS 2	ROUTED TO NEXT SHEET		
T/M CAL	hp= psig	TOTAL TIME 1:41	OPER. L. Baker		
COMP SEAL VENT ORIF DASH No. -4		DATE OF ACCEPT	OPER.		

VECTOR AEROSPACE
Helicopter Services North America
Richmond, BC, Canada

Engine Model:	RR250-C47M	Oil:	MIL-L-23699C
Test Program Tool #:	4.2.84	Fuel:	JET-A-1
Test Database Tool #:	1.1	Test Cell:	1
Tested IAW:	CSP22001	Operator:	W. Kung
Unique Test ID:	CAE847840	Observer:	L. Lim
		Date:	19/05/2009

	Engine	Compressor	Turbine
Serial Number	CAE847840	CAC44393	CAT44382
Work Order	29-6160	0	0
Owner	DOHS	0	0
Test #	1	0	0
Run #	1	0	0

Turbine Flow Areas (sq. in)

High Pressure (GP)		Low Pressure (PT)	
Stator 1	-	Stator 3	-
Rotor 1	-	Rotor 3	-
Stator 2	-	Stator 4	-
Rotor 2	-	Rotor 4	-

PREDICTED DATA

	TAKEOFF	MAX CONT	CRUISE A	CRUISE B	-	-
Spec MGT (F)	1268	1230	1181	1113	-	-
Pred Shaft PWR @ Spec MGT (hp)	689	640	579	498	-	-
Spec Shaft PWR (hp)	650	600	540	450	-	-
Percent Delta From Spec PWR	6.0%	6.7%	7.2%	10.7%	-	-
Predicted SFC (lbm/hp-hr)	0.569	0.575	0.586	0.605	-	-
Spec SFC (lbm/hp-hr)	0.584	0.594	0.609	0.643	-	-
Percent Delta From Spec SFC	-2.6%	-3.2%	-3.8%	-5.9%	-	-

POLYNOMIAL CURVE FIT

	INTERCEPT	1ST COEFF	2ND COEFF
HP-MGT	-1.951E+02	8.817E-02	4.803E-04
FUEL-MGT	1.638E+02	-2.826E-01	3.649E-04
FUEL-HP	9.934E+01	3.547E-01	1.023E-04
TMOP-HP	4.107E-01	1.422E-01	-
N1-HP	-	-	-

TMOP CALIBRATION	92.90	(psi(g))	650	(hp)
TMOP PTS SPEC	92.60	(psi(g)) +/-	1.86	(psi(g))

N/A	0	(rpm)
N/A	0	(rpm)

POINTS USED IN DETERMINING CURVE FIT DATA

Date	19-May-09	19-May-09	19-May-09	19-May-09	19-May-09	19-May-09	19-May-09	-	-	-
Time	09:55:39	10:01:28	10:06:34	10:11:41	10:16:50	10:22:12	10:27:13	-	-	-
Corrected MGT/TOT	997.7	1039.8	1086.6	1133.7	1179.1	1215.7	1252.7	-	-	-
Corrected SHP	369.1	418.2	469.8	520.2	575.0	622.5	669.8	-	-	-
Corrected Fuel Flow	244.4	265.2	288.4	311.8	337.2	359.7	382.8	-	-	-

Test Result:	Inspector:	Signature:	Stamp:
Satisfactory	L. Lim		ACRC ETF-S

1. Approving Civil Aviation Authority/Country	2.	3. Form Tracking No.
Transport Canada	**AUTHORIZED RELEASE CERTIFICATE** **FORM ONE**	29-06160

4. Organization Name and Address	5. Work Order/Contract/Invoice
Vector Aerospace – Helicopter Services North America **4551 Agar Drive** **Richmond, B.C. V7B 1A4**	29-06160

6. Item	7. Description	8. Part No.	9. Qty.	10. Serial/Batch No.	11. Status/work
1	Engine Assembly, Aircraft, Turboshaft	23065460	1	CAE-847840	Repaired

12. Remarks

Repaired and Tested in accordance with Rolls Royce Overhaul Manual **CSP 22001**, 2nd Edition, 9th Revision, dated 15 September 2008.

TSN: 2428.1 hours / 1589 cycles

----------Last Line----------

Certifies that the work specified in Blocks 11/12 was carried out in accordance with the FAR 43 and, with respect to that work, the part(s) is (are) approved for return to service. Pertinent details of the work are on file at this Approved Maintenance Organization.

EASA Approval Certificate *EASA.145.7003*

13a. 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 12.

14a.

☒ CAR 571.10 Maintenance Release.

☐ Other regulation specified in block 12.

Certifies that, unless otherwise specified in block 12, the work identified in block 11 and described in block 12 has been performed in compliance with the *Canadian Aviation Regulations*.

13b. Signature	13c. Approved Organization Number	14b. Signature	14c. Approved Organization Number
		231-91 SCA T-27	AMO 231-91
13d. Name	13e. Date (dd/mmm/yyyy)	14d. Name	14e. Date (dd/mmm/yyyy)
		Mark Mitchley	22 May 2009

22

(Previously form 24-0078)

Important: See notes

INSTALLER RESPONSIBILITIES

This certificate does not constitute authority to install.

Installers working in accordance with the national regulations of a country other than that specified in block 1 must ensure that their regulations recognize certifications from the country specified.

Statements in blocks 13a or 14a do not constitute installation certification. In all cases, the technical record for the aircraft must contain an installation certification issued in accordance with the applicable national regulations before the aircraft may be flown.

For use of this form, see TM 38-750; the proponent agency is DCSLOG.

1. END ITEM	2. SAMPLE FREQUENCY	3. COMPONENT
a. NOMENCLATURE: HELICOPTER		a. NOMENCLATURE AND TYPE: ENGINE A250-C47M
b. MAKE OR TYPE: MDHI MD600N		b. SERIAL NUMBER: CAE 847840
c. SERIAL NUMBER: N602BP / RN-025		c. TIME SINCE NEW OR OVERHAUL a/H:0 INSTALLED @ ACFT: 2700.9 // ENGTT: 1921.1 / T3A:0

4. DATE	5. HOURS			6. REASON FOR SAMPLE	7. RESULTS	8. SIGNATURE
	END ITEM a	COMPONENT b	LAST OIL CHANGE c			
2 MAR 05	2700.9	1921.1	—	INSTALLER		SWAYER
1 JUNE 05	2800.0	2020.1	99.0	100 HOUR	CHANGED OIL	FIGUEROA
26 JULY 05	2900.0	2120.1	100.0	100 HOUR	CHANGED OIL	
16 SEPT 05	3000.0	2220.2	100.	300 HR	CHANGED OIL	
20 MAR 06	3100.6	2320.2	100 HR	100 HR	CHANGED OIL	
17 JULY 06	3200.0	2420.2	100 HR	100 HR	CHANGED OIL	LEON C. CARRINGTON
4 AUG 06	3207.9	2428.1	REMOVED	ENGINE FOR CHIPS		

DA FORM MAY 81 2408-20

OIL ANALYSIS LOG

DATE	5. HOURS			6. REASON FOR SAMPLE	7. RESULTS	8. SIGNATURE
	END ITEM *a*	COMPONENT *b*	LAST OIL CHANGE *c*			

REMARKS

everse of DA Form 2408-20

☆ GPO—1980/346—703