



## ANNEX B

### TECHNICAL SPECIFICATION 08/TENG/2017

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Mario Emilio Framil Cabizuca, Maj  
Chief of BACW Biddings and Contracts Department

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Chief of BACW Internal Control

**MINISTRY OF DEFENSE**  
**AERONAUTIC COMMAND**  
**AERONAUTIC AND WARFARE MATERIAL DIRECTORATE**  
**PARQUE DE MATERIAL AERONÁUTICO DO GALEÃO**

TECHNICAL SPECIFICATION Nº 08/TENG/2017  
(GLKR17002C4)

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## **1. ENGINE DESCRIPTION**

**1.1.**Rolls&Royce, AE3007 A1, PN 23070991, S/N CAE311096

1.1.1. Time Since New (TSN): 15960:40.

1.1.2. Cycles Since New (CSN): 16778.

1.1.3. Time Since Last Shop Visit (TSLSV): 5293:55.

1.1.4. Cycles Since Last Shop Visit (CSLSV): 4001.

**1.2.** Annex 4 lists significant items that are part of the engine.

**1.3.** Annex 5 contains copy of engine Logbook, but BAF will deliver the engine with Logbook.

**1.4.**Fuel Pump and Metering Unit (FPMU), PN 23076368 SN BAE-11028, TSN 3110:45:  
Status: Removed due fuel leakage detected in drain.

**1.5.**The CONTRACTING PARTY ensures that their engines have been operated in accordance with the operating instructions provided by the aircraft manufacturer and the engine manufacturer.

## **2. OBJECT**

**2.1.**The object of these Technical Specifications comprises the repair and recovery services of 1 (one) AE3007 engine, including its accessories as incorporations of selected service bulletins.

## **3. WORK SCOPE**

### **3.1.REASON FOR REMOVAL**

3.1.1. The engine was removed due to zero "2nd-stage High-pressure-turbine Wheel" (HPT2) Life Limit.

3.1.2. Multiple areas of corrosion pitting were found in Front Frame Assembly as per described on Technical Variance reported in Annex 2.

3.1.3. Annex 1 shows compass data in order to detail engine condition at the time of its removal.

### 3.2.SERVICES REQUIRED

- 3.2.1. Engine and its accessories shop visit services must be performed in accordance with the updated technical orders issued by engine and its accessories manufacturer respectively.
- 3.2.2. The 2nd-stage High-pressure-turbine Wheel (HPT2) must be replaced due to the remaining component life be less than 5% of the established life limit.
- 3.2.3. All fuel nozzles listed on Annex 4 must be exchanged to a new updated P/N 23075904, 23077006, 23087207, or 23090046 as applicable. The old fuel nozzle shall not be delivered back to the CONTRACTING PARTY.
- 3.2.4. Alert and mandatory service bulletins and DA in the Annex 3 must be incorporated if applicable, but any others applicable alert or mandatory service bulletins or DA not listed in the Annex 3 must be incorporated.
- 3.2.5. All the material applied in the services by the CONTRACTED PARTY shall be original from the manufacturer (OEM-Original Equipment Manufacturer) and it shall be in accordance with the technical orders.
- 3.2.6. The engine must be preserved for 180 (one hundred eighty) days in accordance with the technical orders issued by the manufacturer.
- 3.2.7. The packaging must follow the technical orders issued by the manufacturer

### 4. SHIPMENT:

- 4.1.The CONTRACTED PARTY will be responsible by the shipment, as follows:
  - 4.1.1. From the CONTRACTING PARTY to the CONTRACTED PARTY:  
INCOTERMS 2010 – FCA – PAMAGL – Rua Alfredo Rocha 495, Ilha do Governador, Rio de Janeiro – RJ, Brasil.
  - 4.1.2. From the CONTRACTED PARTY to the CONTRACTING PARTY:  
INCOTERMS 2010 – DAP – PAMAGL – Rua Alfredo Rocha 495, Ilha do Governador, Rio de Janeiro – RJ, Brasil..
- 4.2. As per R&R MM TASK 71-00-00-400-801, shipping dimensions and specifications are on Table 1 below:

Table 1 - Shipping Dimensions and Specifications

Length	123.5 in. (3137 mm)
Width	60 in. (1524 mm)
Height	62.5 in. (1588 mm)
Tare Weight	1345 lbs (610 kg)
Gross Weight	3050 lbs (1384 kg)
Area	264 cu ft ( 7.48 cu m)

**5. EXECUTION MODE**

5.1.The object of these technical specifications must be contracted by the indirect mode of execution, under service delivered for a global price.

**6. TERMS**

6.1.The CONTRACT to be signed between the CONTRACTING PARTY and CONTRACTED PARTY shall:

6.1.1. Be valid for 210 (two hundred and ten) days, counting from the signing date of the CONTRACT.

6.1.2. The start of the performance of the contract shall begin after CONTRACTED PARTY receives a formal authorization from CONTRACTING PARTY, and shall be concluded within 120 (one hundred and twenty) days by delivering the engine at PAMAGL

6.1.2.1.Exceptionally, the CONTRACTED PARTY may request an extension of 30 days for the contract performance by formal request to CONTRACTING PARTY through the contract MONITOR.

6.1.2.2.In the mentioned request, the CONTRACTED PARTY must present a compelling rational for the extension.

6.1.2.3.Failing to commence work as required by the contract, proving poor workmanship or improperly allocating labor and materials, lacking the proper equipment needed to perform the work, failing to make progress with the project, failing to coordinate work, or failing to perform work on time shall not be used as rational for performance extension.



6.2. The engine and its accessories shall be collected, as per 4.1.1, up to 5 (five) days after the date of the issuance of formal authorization from CONTRACTING PARTY.

## **7. LOCAL OF SERVICES IMPLETATION**

7.1. The repair and recovery services will be executed at the Service Center of the CONTRACTED PARTY.

## **8. WARRANTY**

8.1. The technical warranty for the contracted services performed in the engine must be valid for 12 (twelve) months or 600 (six hundred) flight hours, whichever occurs last, starting on the date of the installation of the engine.

8.2. The technical warranty must include:

8.2.1. Correction of defects caused by the material supplied by the CONTRACTED PARTY;

8.2.2. Correction of repair or services performed on the engine or material supplied by the CONTRACTED PARTY or third parties on behalf of the CONTRACTED PARTY;

8.3. The CONTRACTED PARTY shall cover the warranty by the subcontracted services, at least by the same term of item 8.1.

8.4. The technical warranty do not cover the following events:

8.4.1. Foreign object damage;

8.4.2. Accidents or incidents, if it is not caused by components supplied by the CONTRACTED PARTY;

8.4.3. Improper maintenance, or troubleshooting, misuse, negligence;

8.4.4. Modified or faked items not supplied by the CONTRACTED PARTY;

8.4.5. Improper transportation, storage and handling; and

8.4.6. Other customer induced damages.

8.5. All events mentioned in item 8.4, must be proved by a technical report prepared by the CONTRACTED PARTY.

9. CONDITIONS FOR ACCEPTANCE/DELIVERY

9.1. The CONTRACTED PARTY shall:

- 9.1.1. Issue the Certificate of Conformity of the engine and its accessories;
- 9.1.2. Allow free access for BAF members in the repair services facilities during the shop visit respecting safety conditions always;
- 9.1.3. Register the engine performance in the test bench;
- 9.1.4. Update the Log Book;
- 9.1.5. Make a list of expendables applied;
- 9.1.6. Make a list of damaged material replaced;
- 9.1.7. Provide the invoice of the material applied; and
- 9.1.8. Prepare a written technical report of the services, including:
  - 9.1.8.1. Mechanical condition summary (intervention level and the main services performed in the fan, high pressure compressor, combustion chamber, high and low pressure turbine, accessory gearbox and accessories);
  - 9.1.8.2. Service Bulletins and DA incorporated;
  - 9.1.8.3. Fan rotor dispatch configuration, high pressure compressor rotor, high pressure turbine rotor, low pressure turbine rotor and accessory gearbox (part number, serial number, time since new and cycles since new);
  - 9.1.8.4. Test-bench certification;
  - 9.1.8.5. Life limited parts (TSN, CSN and remaining cycles): and
  - 9.1.8.6. Other relevant informations.
- 9.1.9. The CONTRACTED PARTY must deliver the engine with its updated LOGBOOK and the statement of conformity of items, according to the FAA FORM 8130-9.
- 9.1.10. The BAF will not deliver any spare part of the engine separated from it.



9.1.11. The parts, expendables and engine accessories received by the CONTRACTED PARTY are property of the CONTRACTING PARTY and must be sent to the CONTRACTING PARTY in case of replacement for another one.

9.1.12. Allow free access for BAF members in the repair services facilities during the shop visit respecting safety conditions always.

#### **10. TECHNICAL SKILLS REQUIRED OF THE CONTRACTED PARTY**

**10.1.** The CONTRACTED PARTY must present proof of being a:

10.1.1. Service center authorized by the engine manufacturer; and

10.1.2. Certificated by ANAC, FAA or EASA to perform the object of these technical specifications.

#### **11. SUBCONTRACTING**

**11.1.** If the CONTRACTED PARTY is not enabled, or does not have the technical capability or even is not authorized by the manufacturer of a part or an accessory to perform its repair, it must be sent to the part or the accessory repair shop authorized by the manufacturer.

**11.2.** All costs related to subcontracting cannot be charged to the CONTRACTING PARTY.

**11.3.** The CONTRACTED PARTY shall be authorized to subcontract services until 40% of the value of the agreement.

#### **12. BUDGET ALLOCATION**

**12.1.** The costs due to these technical specifications shall be supported according to the following budget classification: 001391 Program, Action 2048, Nature 339039 Expense (services) or equivalent for the purpose of these technical specifications.

### 13. ANNEXES

ANNEX 1 - ENGINE HEALTH MONITORING

ANNEX 2 - DATA REGARDING THE REASON OF REMOVAL

ANNEX 3 - LIST OF SERVICE BULLETINS AND AD TO BE INCORPORATED IF APPLICABLE.

ANNEX 4 - LIST OF INSTALLED SIGNIFICANT ITEMS

ANNEX 5 - COPY OF ENGINE LOGBOOK.

Rio de Janeiro, August 14th, 2017

Prepared by:



Leonardo Lima Monteiro – 1st Lieutenant Eng  
Technical Advisor of AE3007 engines

Verified by:



Rogrigo da Silva Gonzalez – Major Av  
Project Coordinator

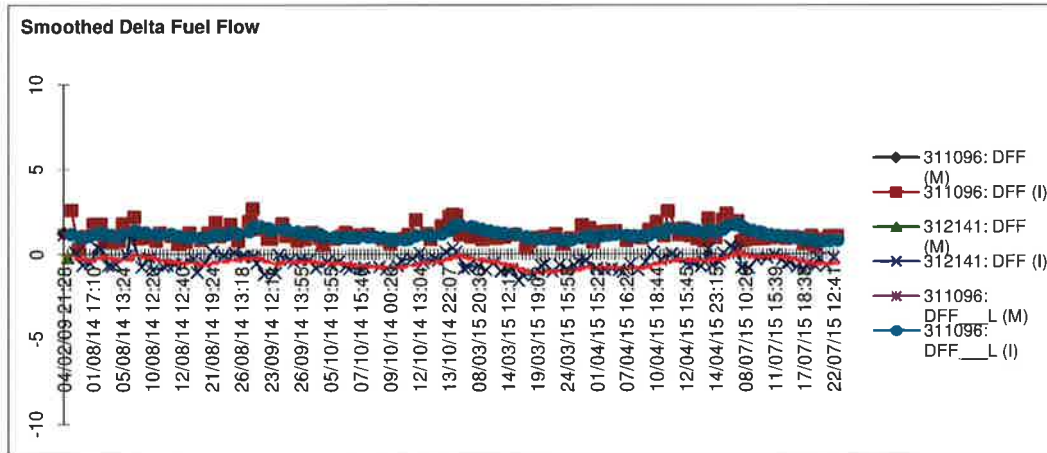
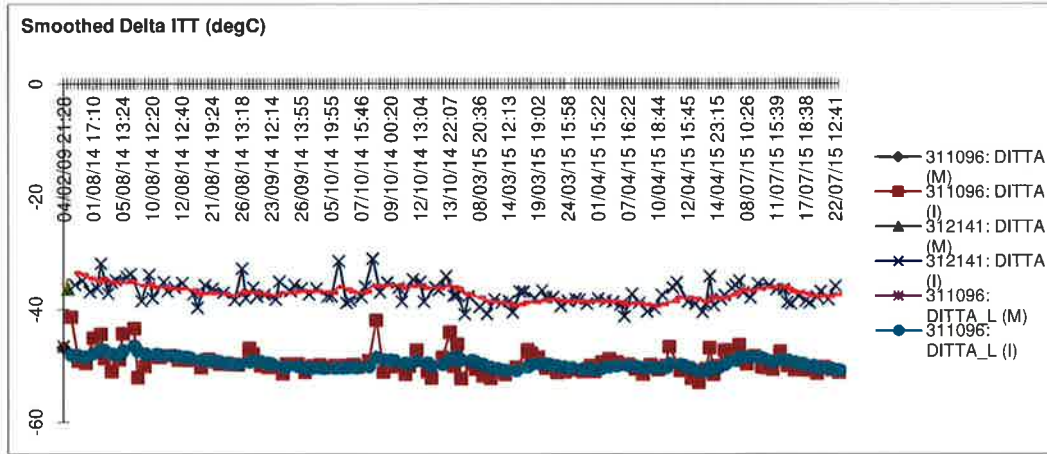
Approved by:



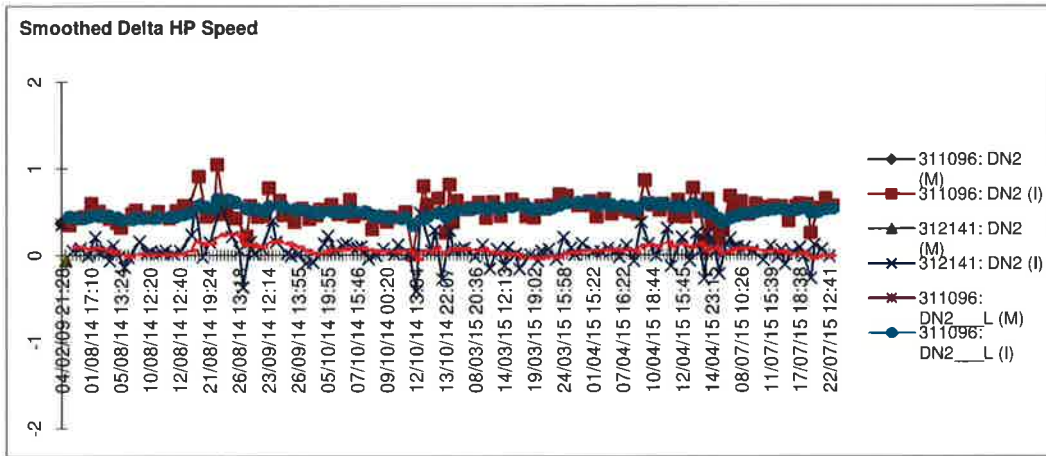
Paulo César Condeixa Guerreiro Lima – Colonel Av  
Head of Technical Division

**ANNEX 1**  
**ENGINE HEALTH MONITORING**  
**CAE311096**

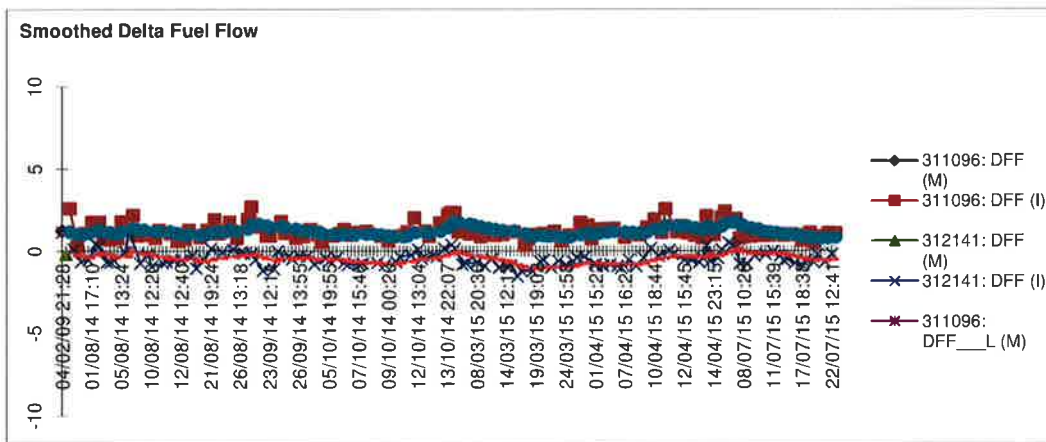
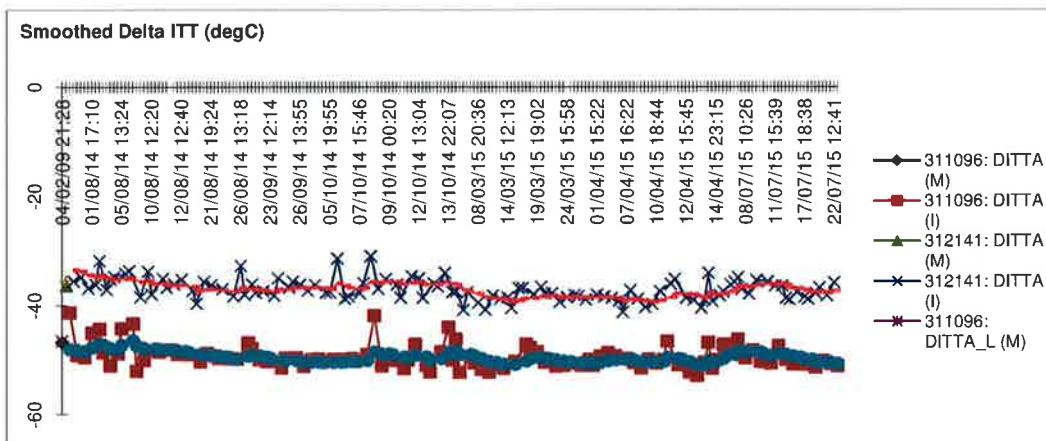
**a) Cruise Mechanical Trends – Smoothed**



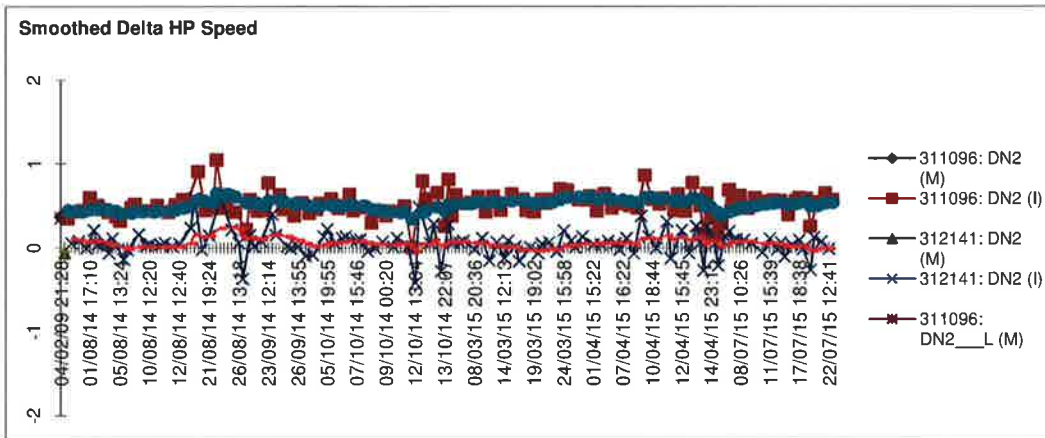
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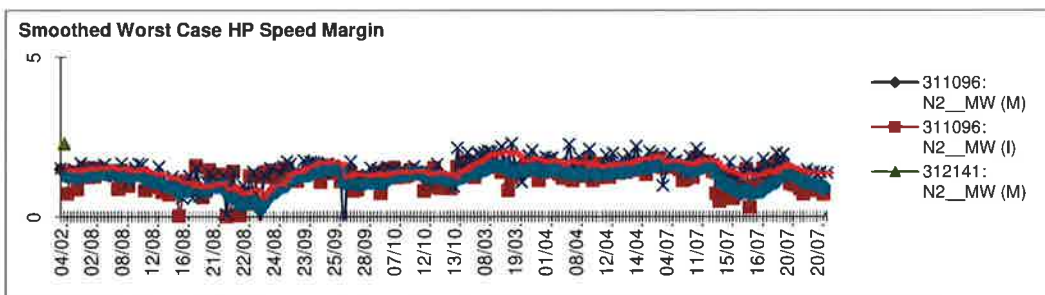
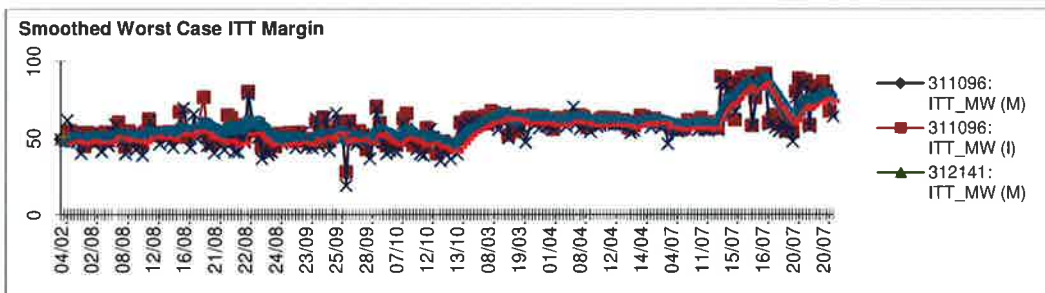
**b) Cruise Performance Trends – Smoothed**



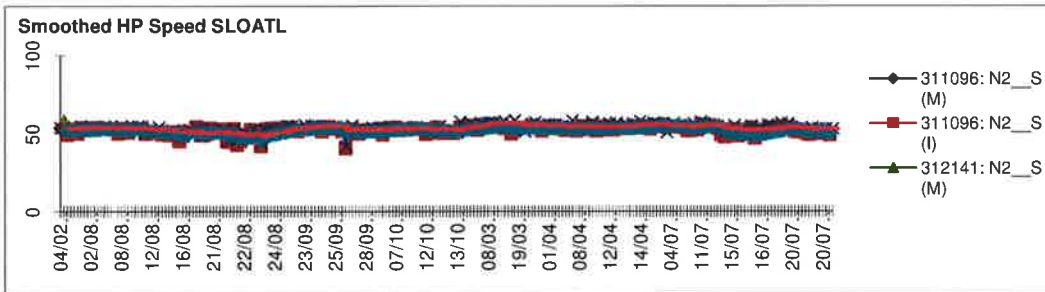
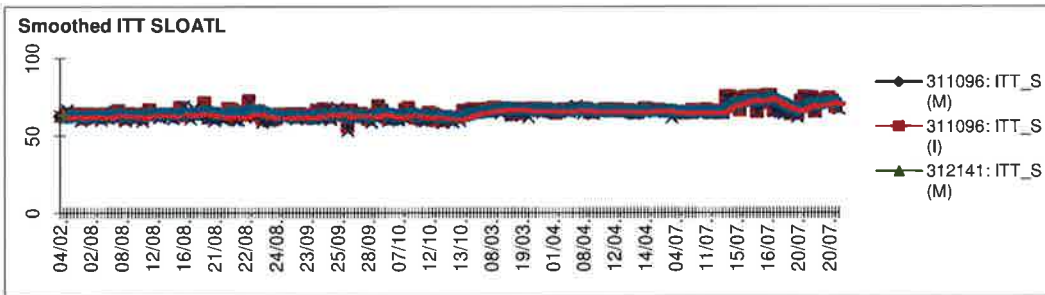
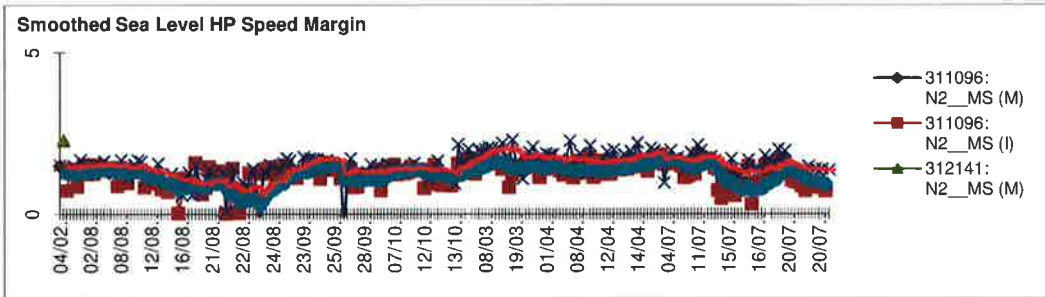
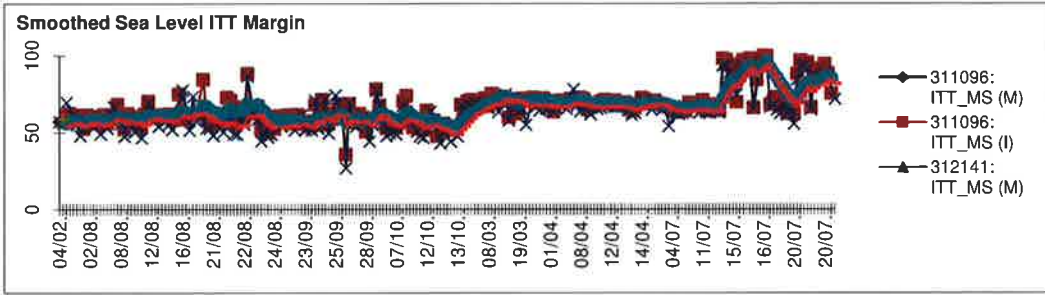
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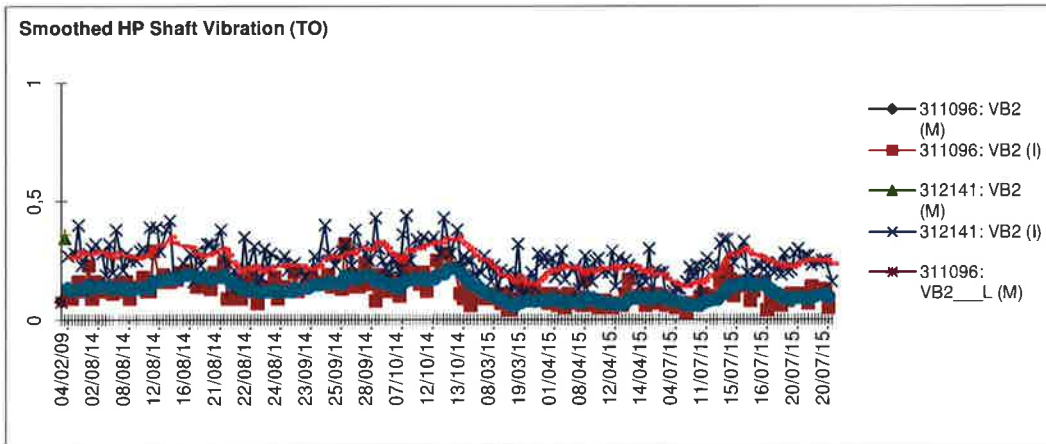
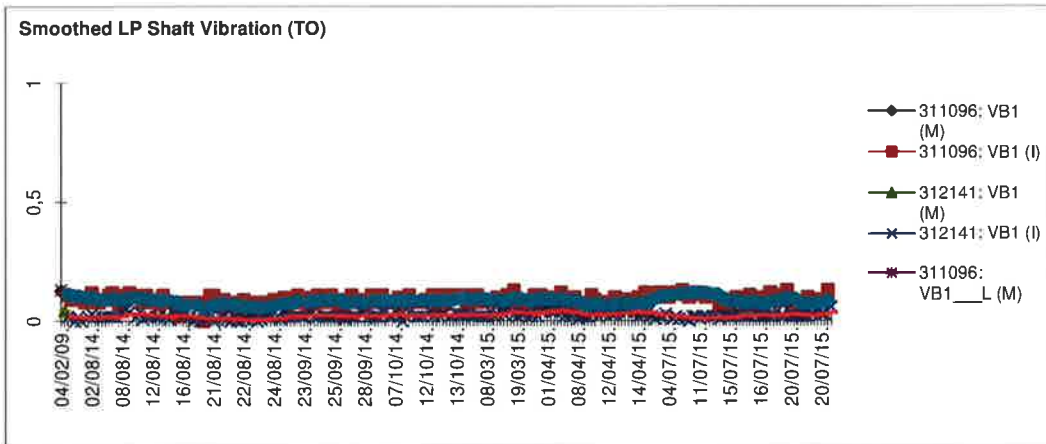
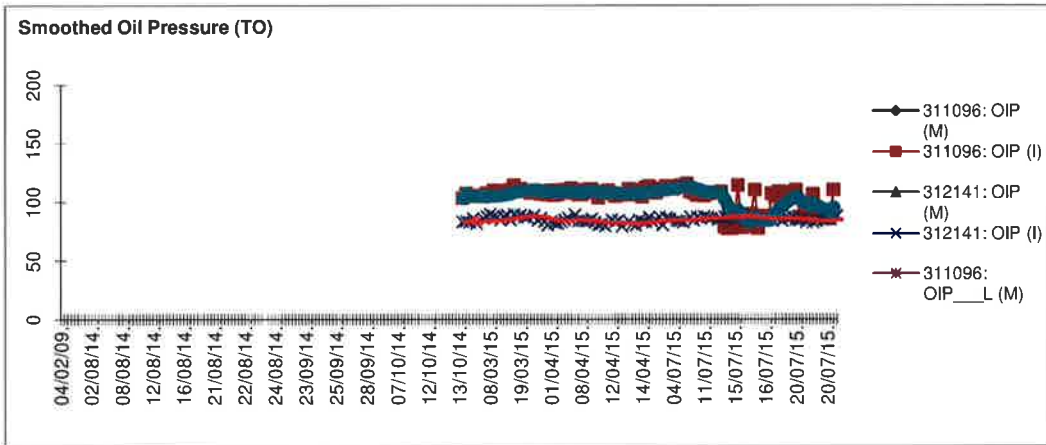
**a) Take-off Performance Trends – Smoothed**



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**b) Take-off Mechanical Trends – Smoothed**



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ANNEX 2

DATA REGARDING THE REASON OF REMOVAL

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U.S. DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION <b>STATEMENT OF COMPLIANCE WITH AIRWORTHINESS STANDARDS</b>		1. DATE: <b>7/10/2015</b> <b>DERY-831300-CE-51705</b>
<b>AIRCRAFT OR AIRCRAFT COMPONENT IDENTIFICATION</b>		
2. MAKE <b>Rolls-Royce</b>	3. MODEL NO. <b>AE 3007A Series</b>	4. TYPE (jet/turbine, turbo-propeller, etc.) <b>Aircraft Engine</b>
5. NAME OF APPLICANT <b>Rolls-Royce Corporation</b>		
<b>LIST OF DATA</b>		
4. IDENTIFICATION <b>TV155416</b> <b>Issue 1</b> <b>7/7/2015</b>	7. TITLE <b>Allow fly-on of 110 engine cycles for ESN CAE311096 before effecting repairs in accordance with CSP34022 MM Tasks 72-25-45-200-801 Inspection of the Front Frame Assembly, as agreed by Rolls-Royce Design Engineering and Service Engineering per the instructions and conditions in this TV.</b>  <p style="text-align: center;">-- END OF DATA --</p> <b>Notes:</b> <i>This approval does not constitute FAA approval for return to service of the subject part(s). A person authorized to perform the inspection/repair in accordance with 14 CFR Part 43 must determine that the part(s) meet the MM or EM instructions as modified by this approval.</i>	
5. PURPOSE OF DATA <b>Modification to the instructions for maintaining the engine</b>		
6. APPLICABLE REQUIREMENTS (if applicable, include) <b>14 CFR 33 Subpart B—Design and Construction; General</b>		
10. CERTIFICATION - Under authority vested by direction of the Administrator and in accordance with conditions and limitations of appointment under 14 CFR Part 103, data listed above and on attached sheets numbered (N/A) have been examined in accordance with established procedures and found to comply with applicable requirements of the Federal Aviation Regulations.		
<input type="checkbox"/> Recommend approval of these data <input checked="" type="checkbox"/> Approve these data		
4. Therefore		
11. SIGNATURE(S) OF DESIGNATED ENGINEERING REPRESENTATIVE(S) <b>Patrick S. O'Connell</b> <i>[Signature]</i>	12. DESIGNATION NUMBER(S) <b>DERY-831300-CE</b>	13. CLASSIFICATION(S) <b>Turbine Engine</b>


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## Technical Variance



# Rolls-Royce

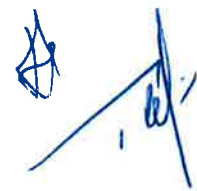
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Technical Variance No.	155416		Issue	1	Date	07 JUL 2015
Operator / Applicant	BRASILIAN AIR FORCE/ ROLLS-ROYCE BRASIL			Original Request No.	BRAf-150701	
Engine Type	AE3007®	Engine Mark(s)	AE 3007A SERIES			
Part Description	FRONT FRAME ASSEMBLY			Eng/Mod Serial No.	CAE311096	
Part No.	23078008			Part Serial No.	XX10929	
Manual Title	MAINTENANCE MANUAL	Ref.	CSP34022	ATA Ref.	72-25-45-200-801	
TV Title	ACCEPTANCE OF CORROSION ON THE FLOWPATH AREA WITHOUT REPAIR FOR AN ADDITIONAL FLY-ON OF 110 CYCLES					
Hours	15810	Cycles	10654	GPCI #	N/A	
Standard Labor Hours:	N/A		Material Cost:	N/A		
<b>Description of Problem</b>						
<p>During inspection of the subject Front Frame Assembly in accordance with Maintenance Manual (MM) Inspection TASK 72-25-45-200-801, multiple areas of corrosion pitting were found on the Flowpath Area at 6 'o' clock position. The maximum depth of corrosion is reported to be 0.057 in. (See Figures 1 through 3 for the reported condition).</p> <p>The MM Inspection TASK 72-25-45-200-801 instructs to do the following, if the depth of corrosion on the Flowpath Area is more than 0.030 in. and less than 0.075 in:</p> <ol style="list-style-type: none"> <li>1. Apply epoxy adhesive paste in accordance with SPM TASK 70-00-00-300-813.</li> <li>2. Touch-up the corrosion resistant paint in accordance with SPM TASKs 70-00-00-300-815, 70-00-00-300-817, or MM TASK 72-25-45-300-803, in two weeks or less.</li> </ol>						
<b>Requested Variance</b>						
Rolls-Royce Brasil requests authorization to postpone the repair of corrosion on the subject Front Frame Assembly, for an additional 110 cycles.						

<b>Technical Variance Level</b>	
<input type="checkbox"/> Minor (FAA Form 8110-3 not required)	<input checked="" type="checkbox"/> Minor (FAA form 8110-3 included)
<input type="checkbox"/> Major (FAA Form 8110-3 required)	
<b>Approval on Behalf of Rolls-Royce</b>	
<b>Approval Authority</b>  Marc Thomas, 79196@lidentity.com 2015-07-07 14:20:45 -04'00'	<b>Airworthiness Engineer</b> DERY-831300-CE  <small>Digitally signed by Patrick O'Connell, 22718100001, DN: cn=Patrick O'Connell, o=Rolls-Royce PLC, ou=Production, email=Patrick.O'Connell@rolls-royce.com, Date: 2015.07.07 10:10:24 +00'00'</small>
FAA Form	DERY-831300-CE-51705
Originator	Dilip Heggere

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**Rolls-Royce**

**Technical Variance  
Continuation Sheet**

TV No.  
155416  
Issue 1

**Solution**

Rolls-Royce Service and Design Engineering have reviewed the reported condition and concluded that the corrosion on the Flowpath Area is acceptable in as-is condition, without any repair, for an additional 110 cycles. This condition will have negligible effect on the function and integrity of the subject component.

This Technical Variance authorizes Rolls-Royce Brasil to postpone the repair of corrosion on the Flowpath Area of the subject Front Frame Assembly (as instructed in MM Inspection TASK 72-25-45-200-801), for an additional 110 cycles. The subject component can continue to be in-service in any applicable AE 3007 engine, provided all other inspection criteria are met.

This condition will require no further inspection by the operator. The on-going condition of the engine should be monitored in accordance with the MM and NTO AE3007A-019, if applicable.

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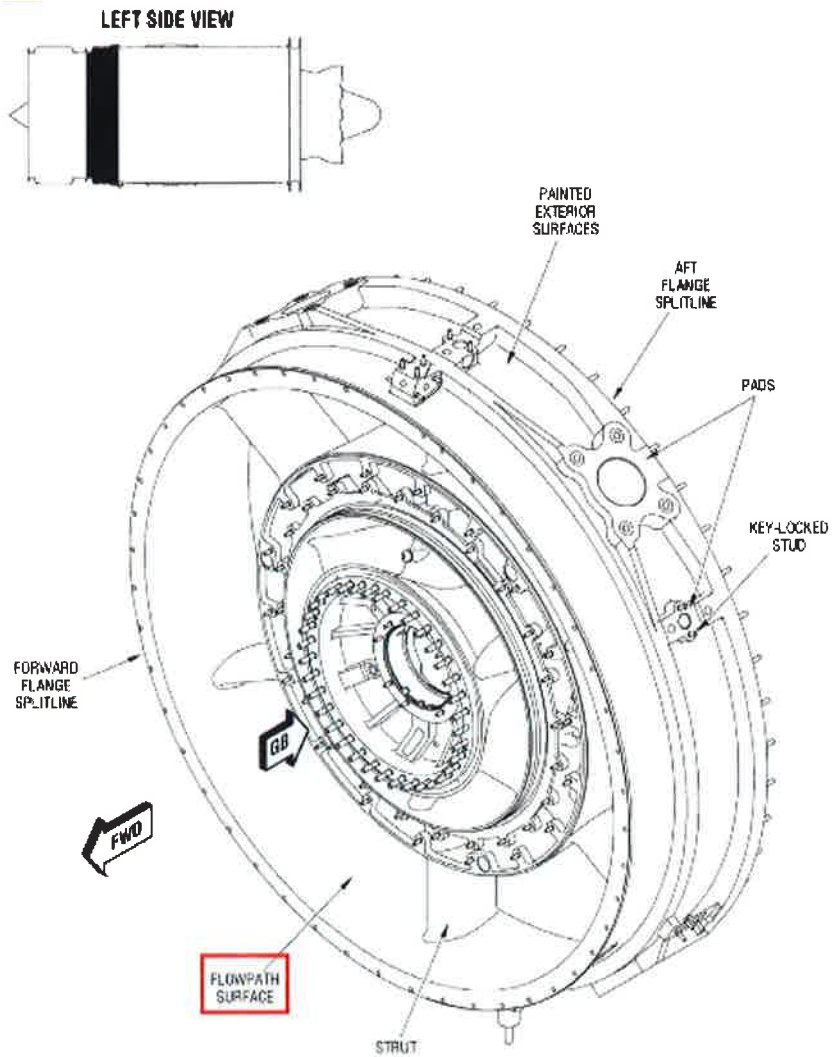
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**Rolls-Royce**

**Technical Variance  
 Continuation Sheet**

TV No.  
 155416  
 Issue 1



**Figure 1 – View to show the location of corrosion**

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**Rolls-Royce**

**Technical Variance  
Continuation Sheet**

TV No.  
135416  
Issue 1



**Figure 2 – Photographs to show the reported corrosion**

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**Rolls-Royce**

**Technical Variance  
Continuation Sheet**

TV No.  
155416  
Issue 1



**Figure 3 – Photographs to show the reported corrosion**

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ANNEX 3

LIST OF ALERT AND MANDATORY SERVICE BULLETINS TO BE INCORPORATED IF APPLICABLE

Ref.	Title
72-240	72-240 - ENGINE -- NEW 6TH-- THRU 13TH--STAGE CHROME CARBIDE COATED KNIFE SEAL
72-361	72-361 - ENGINE - REDESIGNED ONE PIECE FAN SPINNER (23087826)
72-403	72-403 ENGINE -- SHOT PEEN REWORK OF UNPEENED LOW PRESSURE TURBINE WHEELS
75-017	75-017 - AIR INSPECT THE TORQUETUBE ASSEMBLY (23069629)
79-A020	79-A020 - OIL - MONITOR THE ENGINE OIL TEMPERATURE

LIST OF AD FAA TO BE INCORPORATED IF APPLICABLE

AD	TITLE
2015-02-08	Turbine wheels
2013-26-06	High-pressure turbine (HPT) stage 2 wheels
2011-22-03	Low-cycle fatigue cracks
2009-24-04	Fan spinner
2007-24-05	Engine oil temperature
2004-04-05	Engine oil system
2001-25-05	Compressor Cone Shafts
2000-18-06	Digital Electronic Controls
2000-13-01	Turbine Wheels
2000-11-22	Critical Life-Limited Parts
98-11-32	Sump Magnetic Chip Collector Plug



ANNEX 4

LIST OF INSTALLED SIGNIFICANT ITEMS



**SISTEMA INTEGRADO DE LOGÍSTICA DE MATERIAIS E DE SERVIÇOS**  
**PARQUE DE MATERIAL AERONÁUTICO DO GALEÃO**  
**RELATÓRIO CONFIGURAÇÃO REAL**

Imagem: 1 de 3  
 Data: 14/08/2017  
 Hora: 11:08:17  
 C:\MSI138 v.10.10

Equipamento: Inibidido: 810000, MS: 35870993, SE: CDE311000, MAXICICLO: , Tipo Monitoragem: Condição Monitoring (Sim), Base: Tiam (Sim), On: Condição (Sim), TLV (Sim)

IME: 23070991 TURBO FAN ENGINE MS3      Modelo:      CDE: 83000      FMS: 2305558

IME: CDE311000      Modelo:      2305558

YME: 1306020      Horas de Funcionamento do M      2305558

Seq.	Part Number (PN)	QTY	Descrição	Serial Number (SN)	Min	Out	Pos	Unidade	Dest	Tempo	Substituição	Substituição	Substituição
1	23050752	73342	2ND STAGE COMPRESSOR WHEEL	140928	L	R	X	PANHEL	C	TLV			3232
2	23050754	73342	4TH STAGE COMPRESSOR WHEEL	140844	L	C	X	PANHEL	C	TLV		24000	3232
3	23052613	83005	SENSOR, FUEL FLOW	8902	O	R	X	PANHEL	C			SEM CICLO	
4	23052650	83005	VALVE ASST	SP07500201001	O	R	X	PANHEL	C			SEM CICLO	
5	23054649	73342	LPT INTERSTAGE SPACER	7813712	L	C	P2	PANHEL	C	TLV		10000	2014
6	23054949	73342	LPT INTERSTAGE SPACER	7813790	L	C	P1	PANHEL	C	TLV		24000	2014
7	23057324	83005	PLATE, IGNITION CONTACT BOLANER	881344	C	R	Z	PANHEL	M			SEM CICLO	
8	23057324	83005	PLATE, IGNITION CONTACT BOLANER	880034712	C	R	Z	PANHEL	M			SEM CICLO	
9	23057880	83005	SWITCH LOW PRESSURE	SP07600102901	C	X		PANHEL	C			SEM CICLO	
10	23058312	73342	2ND STAGE LPT WHEEL	8800446	L	C	X	PANHEL	C	TLV			15016
11	23058858	83005	SENSOR, EXHAUST GAS, OXYGEN, EMISSION CONTROL	SP1711104901	O	C	Z	PANHEL	C			SEM CICLO	
12	23058858	83005	SENSOR, EXHAUST GAS, OXYGEN, EMISSION CONTROL	SP1711204901	O	C	Z	PANHEL	C			SEM CICLO	
13	23058945	73342	7TH WHEEL	FR10987	L	R	X	PANHEL	C	TLV		24000	13999
14	23058981	83005	ACTUATOR HYDRAULIC	848374	R	R	X	PANHEL	M			SEM CICLO	
15	23060111	73342	1ST STAGE LPT WHEEL	8809608	L	T	X	PANHEL	C	TLV			20009
16	23061829	73342	9TH STAGE COMPRESSOR WHEEL	1117441	L	C	X	PANHEL	C	TLV		24000	3232
17	23061830	73342	10TH STAGE COMPRESSOR WHEEL	174008	L	C	X	PANHEL	C	TLV		24000	3232
18	23061832	73342	12TH STAGE COMPRESSOR WHEEL	178148	L	T	X	PANHEL	C	TLV		24000	3232
19	23061837	73342	13TH STAGE COMPRESSOR WHEEL	179008	L	T	X	PANHEL	C	TLV		24000	3232
20	23061874	73342	14TH STAGE COMPRESSOR WHEEL	1108084	L	C	X	PANHEL	C	TLV		24000	3232
21	23062269	83005	SENSOR, EXHAUST GAS, OXYGEN, EMISSION CONTROL	4487	O	C	Z	PANHEL	C			SEM CICLO	
22	23062269	83005	SENSOR, EXHAUST GAS, OXYGEN, EMISSION CONTROL	4694	O	C	Z	PANHEL	C			SEM CICLO	
23	23062492	73342	PNB FAN BLADE RETAINER	8818038	L	C	X	PANHEL	C	TLV		24000	3232
24	23062495	83005	PLUG, MAGNETIC	SP1710219402	T	R	X	PANHEL	M			SEM CICLO	
25	23062666	73342	6TH STAGE COMPRESSOR WHEEL	171718	L	C	X	PANHEL	C	TLV		24000	3232

C. AERONÁUTICA  
 FI: 261  
 Proc: 173981  
 Rub: *[Handwritten Signature]*  
 CABW




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**SISTEMA INTEGRADO DE LOGÍSTICA DE MATERIAIS E DE SERVIÇOS**  
**PARQUE DE MATERIAL AERONÁUTICO DO GALEÃO**  
**RELATÓRIO CONFIGURAÇÃO REAL**



Pág.: 2 de 3  
 Data: 14/08/2017  
 Hora: 22:08:37  
 CPM: 6118-6119-19

Operar: Unidade: 800116, Em: 23/09/17, Ori: 03111801, S: 03111801, T: 03111801, U: 03111801, V: 03111801, W: 03111801, X: 03111801, Y: 03111801, Z: 03111801		Instal: Material: 0311		Situação:								
PR: 23022487		CFD: 03111801		CFD: 03111801								
Seq.	Part Number (PR)	CFD	Manufatura	Serial Number (SN)	Mon	Cat	Pos	Paquet	Cont	Inspecio	Intermedio	Magazinh
24	23022487	0311	79142 117 STAGE COMPRESSION MODEL	623424	L	C	X	790600	C	ELV	21000	21000
25	23022487	0311	79142 117 STAGE COMPRESSION MODEL	623424	L	C	X	790600	C	ELV	21000	21000
26	23022487	0311	79142 117 STAGE COMPRESSION MODEL	623424	L	C	X	790600	C	ELV	21000	21000
27	23022487	0311	79142 117 STAGE COMPRESSION MODEL	623424	L	C	X	790600	C	ELV	21000	21000
28	23022487	0311	79142 117 STAGE COMPRESSION MODEL	623424	L	C	X	790600	C	ELV	21000	21000
29	23022487	0311	79142 117 STAGE COMPRESSION MODEL	623424	L	C	X	790600	C	ELV	21000	21000
30	23022487	0311	79142 117 STAGE COMPRESSION MODEL	623424	L	C	X	790600	C	ELV	21000	21000
31	23022487	0311	79142 117 STAGE COMPRESSION MODEL	623424	L	C	X	790600	C	ELV	21000	21000
32	23022487	0311	79142 117 STAGE COMPRESSION MODEL	623424	L	C	X	790600	C	ELV	21000	21000
33	23022487	0311	79142 117 STAGE COMPRESSION MODEL	623424	L	C	X	790600	C	ELV	21000	21000
34	23022487	0311	79142 117 STAGE COMPRESSION MODEL	623424	L	C	X	790600	C	ELV	21000	21000
35	23022487	0311	79142 117 STAGE COMPRESSION MODEL	623424	L	C	X	790600	C	ELV	21000	21000
36	23022487	0311	79142 117 STAGE COMPRESSION MODEL	623424	L	C	X	790600	C	ELV	21000	21000
37	23022487	0311	79142 117 STAGE COMPRESSION MODEL	623424	L	C	X	790600	C	ELV	21000	21000
38	23022487	0311	79142 117 STAGE COMPRESSION MODEL	623424	L	C	X	790600	C	ELV	21000	21000
39	23022487	0311	79142 117 STAGE COMPRESSION MODEL	623424	L	C	X	790600	C	ELV	21000	21000
40	23022487	0311	79142 117 STAGE COMPRESSION MODEL	623424	L	C	X	790600	C	ELV	21000	21000
41	23022487	0311	79142 117 STAGE COMPRESSION MODEL	623424	L	C	X	790600	C	ELV	21000	21000
42	23022487	0311	79142 117 STAGE COMPRESSION MODEL	623424	L	C	X	790600	C	ELV	21000	21000
43	23022487	0311	79142 117 STAGE COMPRESSION MODEL	623424	L	C	X	790600	C	ELV	21000	21000
44	23022487	0311	79142 117 STAGE COMPRESSION MODEL	623424	L	C	X	790600	C	ELV	21000	21000
45	23022487	0311	79142 117 STAGE COMPRESSION MODEL	623424	L	C	X	790600	C	ELV	21000	21000
46	23022487	0311	79142 117 STAGE COMPRESSION MODEL	623424	L	C	X	790600	C	ELV	21000	21000
47	23022487	0311	79142 117 STAGE COMPRESSION MODEL	623424	L	C	X	790600	C	ELV	21000	21000
48	23022487	0311	79142 117 STAGE COMPRESSION MODEL	623424	L	C	X	790600	C	ELV	21000	21000
49	23022487	0311	79142 117 STAGE COMPRESSION MODEL	623424	L	C	X	790600	C	ELV	21000	21000
50	23022487	0311	79142 117 STAGE COMPRESSION MODEL	623424	L	C	X	790600	C	ELV	21000	21000



# SISTEMA INTEGRADO DE LOGÍSTICA DE MATERIAIS E DE SERVIÇOS

## PARQUE DE MATERIAL AERONÁUTICO DO GALEÃO

### RELATORIO CONFIGURAÇÃO REAL

Pág.: 3 em 3  
 Data: 14/08/2017  
 Hora: 11:08:17  
 CTRM11B v.10.10

Equipamento: PARNACL, PN: 2470041, SE: C0E311094, MONTAGEM: Tipo Montagem Condicionamento (Sma), Marc: Yam (Sma), Des: Condicionamento, TUV (Sma)

MR: 23070091 Y8800 FAN ENGINE AE1 CPT: 45003 CTF: 2042 - PADM3338

SE: C0E311094 Montagem: Instal Matrícula: 2115

Seq	Part Number (PN)	Quantidade	Descrição	Social Number (SN)	Rev	Qtd	Rev	Qtd	Rev	Qtd	Cont	Inspeção	Intervalo	Despacho
31	13071452	1	NOZZLE ASSY, FUEL, AI	1YR4231C	Y	K	P1	PARNACL	K	YK	2000:00	YK	16:43	16:43
32	13071452	1	NOZZLE ASSY, FUEL, AI	1YR4080C	Y	K	P14	PARNACL	K	YK	2000:00	YK	16:43	16:43
33	13071457	1	NOZZLE ASSY, FUEL, AI	1YR4080C	Y	K	P7	PARNACL	K	YK	2000:00	YK	17:49	17:49
34	13071452	1	NOZZLE ASSY, FUEL, AI	1YR4080C	Y	K	P8	PARNACL	K	YK	2000:00	YK	16:43	16:43
35	13071452	1	NOZZLE ASSY, FUEL, AI	1YR4080C	Y	K	P12	PARNACL	K	YK	2000:00	YK	16:43	16:43
36	13071452	1	NOZZLE ASSY, FUEL, AI	1YR4080C	Y	K	P11	PARNACL	K	YK	2000:00	YK	17:43	17:43
37	13071452	1	NOZZLE ASSY, FUEL, AI	1YR4080C	Y	K	P3	PARNACL	K	YK	2000:00	YK	16:43	16:43
38	13071452	1	NOZZLE ASSY, FUEL, AI	1YR4080C	Y	K	P5	PARNACL	K	YK	2000:00	YK	16:43	16:43
39	13071453	1	INJECTOR ASSEMBLY, FUEL	1P4L3364	Y	K	P13	PARNACL	K	YK	2000:00	YK	17:43	17:43
40	13071453	1	INJECTOR ASSEMBLY, FUEL	1MR4084	Y	K	P13	PARNACL	K	YK	2000:00	YK	16:43	16:43
41	13071453	1	INJECTOR ASSEMBLY, FUEL	1MP4336	Y	K	P2	PARNACL	K	YK	2000:00	YK	17:43	17:43
42	13071450	1	COMBUSTOR ACCELERATION GALLER VALVE	1P4023	O	K	K	PARNACL	B	YK	SEU CICLO	YK	SEU CICLO	SEU CICLO
43	13071468	1	PUMP, FUEL, METEORICARD DISTRIBUTING	1MR11010	O	K	K	PARNACL	B	YK	SEU CICLO	YK	SEU CICLO	SEU CICLO

TYPE IN COMMENTS

L TUV

C Condition Monitoring

T INPS YK

D Dr Condition

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ANNEX 5

COPY OF ENGINE LOGBOOK

**SECTION 1 PART III ENGINE MODIFICATION RECORD**

1. ENGINE SERIAL NUMBER: CAE311096		2. ENGINE MODEL: AE3007A1					
3. MODIFICATION INFORMATION							
BULLETIN OR DIRECTIVE NUMBER	ISSUE/REVISION DATE	SUBJECT OF BULLETIN OR DIRECTIVE	TYPE	4. COMPLIANCE TIME		AUTHORIZED SIGNATURE	ORGANIZATION
				INTERVAL	NEXT DUE		
SB AE3007A-79-034 AD 2001-08-15 FAA	MAY 14, 2002 MAY 14, 2001	OIL - OIL INSPECTION FOR DEBRIS	ONE-TIME RECURRING	5FD/50FH 11-fev-04		<i>[Signature]</i> JOSE ALVES P. - 02451-3	EMBRAER
SB AE3007A-79-029 R1	JUL 7, 2003	OIL - NEW OIL PRESSURE SENSOR (23073715)	ONE-TIME RECURRING	800 FH 15-fev-04		<i>[Signature]</i> JOSE ALVES P. - 02451-3	EMBRAER
SB AE3007A-72-253 AD 99-02-51 FAA	FEB 17, 2003 APR 20, 1999	ENGINE - ACCESSORY GEARBOX STARTER PAD DRAIN - INSTALL THE STARTER DRAIN ADAPTER	ONE-TIME RECURRING	5FD/50FH 11-fev-04		<i>[Signature]</i> JOSE ALVES P. - 02451-3	EMBRAER
SB AE3007A-79-034 AD FAA 2004-04-05	MAY 14, 2002 MAR 09, 2004	OIL - OIL INSPECTION FOR DEBRIS	ONE-TIME RECURRING	2-out-04		<i>[Signature]</i> JOSE ALVES P. - 02451-3	EMBRAER
			ONE-TIME RECURRING				
			ONE-TIME RECURRING				
			ONE-TIME RECURRING				
			ONE-TIME RECURRING				
			ONE-TIME RECURRING				
			ONE-TIME RECURRING				
			ONE-TIME RECURRING				
			ONE-TIME RECURRING				
			ONE-TIME RECURRING				

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**SECTION 1 PART III ENGINE MODIFICATION RECORD**

1. ENGINE SERIAL NUMBER: CAE311096			2. ENGINE MODEL: AE3007A1			
3. MODIFICATION INFORMATION						
BULLETIN OR DIRECTIVE NUMBER	ISSUE/REVISION DATE	SUBJECT OF BULLETIN OR DIRECTIVE	TYPE	INTERVAL	4. COMPLIANCE TIME	5. SIGNATURE ENTRY AND COMPANY
DIRECTIVE NUMBER	DATE			ACCOMPLISHED	CERTIFICATION TYPE & NUMBER	ORGANIZATION
SB AE3007A-79-034	MAY 14, 2002	OIL - OIL INSPECTION FOR DEBRIS	ONE-TIME	5FD/50FH		
AD 2001-08-15 FAA	MAY 14, 2001		RECURRING	11-fev-04	JOSE ALVES P - 02451-3	EMBRAER
SB AE3007A-79-029	JUL 7, 2003	OIL - NEW OIL PRESSURE SENSOR (23073715)	ONE-TIME			
R1			RECURRING	15-fev-04	JOSE ALVES P - 02451-3	EMBRAER
SB AE3007A-72-253	FEB 17, 2003	ENGINE - ACCESSORY GEARBOX STARTER PAD DRAIN - INSTALL THE STARTER DRAIN ADAPTER	ONE-TIME	800 FH		
AD 99-02-51 FAA	APR 20, 1999		RECURRING	11-fev-04	JOSE ALVES P - 02451-3	EMBRAER
SB AE3007A-79-034	MAY 14, 2002	OIL - OIL INSPECTION FOR DEBRIS	ONE-TIME	5FD/50FH		
AD FAA 2004-04-05	MAR 09, 2004		RECURRING	2-out-04	JOSE ALVES P - 02451-3	EMBRAER
			ONE-TIME			
			RECURRING			
			ONE-TIME			
			RECURRING			
			ONE-TIME			
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			ONE-TIME			
			RECURRING			



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**SECTION 1 PART III**

**ENGINE MODIFICATION RECORD**

1. ENGINE SERIAL NUMBER: CAE311096			2. ENGINE MODEL: AE3007A1		
3. MODIFICATION INFORMATION					
BULLETIN OR DIRECTIVE NUMBER	ISSUE/REVISION DATE	SUBJECT OF BULLETIN OR DIRECTIVE	TYPE	INTERVAL	NEXT DUE
SB AE3007A-72-063	REVISION 04 JANUARY 19, 2001	ENGINE - LOW-PRESSURE-TURBINE MODULE (23064286) TO (23067850) - REWORK	ONE-TIME REPAIR/REWORK	N/A	N/A
SB AE3007A-72-125	REVISION 01 MAY 29, 2001	ENGINE - OUTER BYPASS-DUCT ASSEMBLY - MOLDED INSERT TEST	ONE-TIME REPAIR/REWORK	SEE	SB / AD
SB AE3007A-A-72-131	REVISION 04 DECEMBER 11, 2000	ENGINE - ACCESSORY GEARBOX STARTER PAD DRAIN-CAP THE FITTING	ONE-TIME REPAIR/REWORK	N/A	N/A
SB AE3007A-72-171	REVISION 02 MARCH 16, 2001	ENGINE - NEW CENTER SUMP HARDWARE TO REDUCE HIGH MAIN OIL PRESSURE	ONE-TIME REPAIR/REWORK	See	SB / AD
SB AE3007A-72-172	REVISION 02 MARCH 16, 2001	ENGINE - NEW COMPRESSOR STUB SHAFT (23072226)	ONE-TIME REPAIR/REWORK	N/A	N/A
SB AE3007A-A-72-178	REVISION 03 DECEMBER 01, 2001	ENGINE - RESET THE INLET GUIDE VANES	ONE-TIME REPAIR/REWORK	N/A	N/A
SB AE3007A-72-187	REVISION 01 MARCH 28, 2001	ENGINE - NEW 8 <sup>TH</sup> THRU 13 <sup>TH</sup> STAGE COMPRESSOR VANE ASSEMBLIES	ONE-TIME REPAIR/REWORK	N/A	N/A
SB AE3007A-72-198	ORIGINAL MAY 07, 2001	ENGINE - NEW REAR TURBINE BEARING SUPPORT OIL SUPPLY TUBE (23073641)	ONE-TIME REPAIR/REWORK	N/A	N/A
SB AE3007A-72-202	ORIGINAL JUNE 08, 2001	ENGINE - NEW COMPRESSOR TO-TURBINE SHAFT (23073185) AND COMPRESSOR SHAFT CONE ASSEMBLY (23073282)	ONE-TIME REPAIR/REWORK	N/A	N/A
SB AE3007A-72-203	ORIGINAL APRIL 10, 2001	ENGINE - NEW FAN (No. 0) BEARING SUPPORT HOUSING (23074279)	ONE-TIME REPAIR/REWORK	N/A	N/A
SB AE3007A-A-72-207	REVISION 01 NOVEMBER 05, 2001	ENGINE - NEW FAN SEAL INTERNAL RETAINING RING	ONE-TIME REPAIR/REWORK	N/A	N/A
SB AE3007A-72-208	REVISION 01 OCTOBER 19, 2001	ENGINE - NEW 1 <sup>ST</sup> STAGE COMPRESSOR BLADE REAR RETAINER RING (23074307)	ONE-TIME REPAIR/REWORK	N/A	N/A
				COMPLIANCE TIME	SIGNATURE ENTRY and COMPANY
				ACCOMPLISHED	CERTIFICATION TYPE & NUMBER
				JANUARY 31, 2002	ROLLS-ROYCE BRASIL
				SEE	ROLLS-ROYCE BRASIL
				JANUARY 31, 2002	ROLLS-ROYCE BRASIL
				N/A	ROLLS-ROYCE BRASIL
				JANUARY 31, 2002	ROLLS-ROYCE BRASIL
				See	ROLLS-ROYCE BRASIL
				JANUARY 31, 2002	ROLLS-ROYCE BRASIL
				N/A	ROLLS-ROYCE BRASIL
				JANUARY 31, 2002	ROLLS-ROYCE BRASIL
				N/A	ROLLS-ROYCE BRASIL
				JANUARY 31, 2002	ROLLS-ROYCE BRASIL
				N/A	ROLLS-ROYCE BRASIL
				JANUARY 31, 2002	ROLLS-ROYCE BRASIL
				N/A	ROLLS-ROYCE BRASIL
				JANUARY 31, 2002	ROLLS-ROYCE BRASIL
				N/A	ROLLS-ROYCE BRASIL
				JANUARY 31, 2002	ROLLS-ROYCE BRASIL
				N/A	ROLLS-ROYCE BRASIL
				JANUARY 31, 2002	ROLLS-ROYCE BRASIL
				N/A	ROLLS-ROYCE BRASIL
				JANUARY 31, 2002	ROLLS-ROYCE BRASIL
				N/A	ROLLS-ROYCE BRASIL
				JANUARY 31, 2002	ROLLS-ROYCE BRASIL
				N/A	ROLLS-ROYCE BRASIL
				JANUARY 31, 2002	ROLLS-ROYCE BRASIL
				N/A	ROLLS-ROYCE BRASIL
				JANUARY 31, 2002	ROLLS-ROYCE BRASIL
				N/A	ROLLS-ROYCE BRASIL
				JANUARY 31, 2002	ROLLS-ROYCE BRASIL
				N/A	ROLLS-ROYCE BRASIL
				JANUARY 31, 2002	ROLLS-ROYCE BRASIL
				N/A	ROLLS-ROYCE BRASIL
				JANUARY 31, 2002	ROLLS-ROYCE BRASIL
				N/A	ROLLS-ROYCE BRASIL
				JANUARY 31, 2002	ROLLS-ROYCE BRASIL

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**SECTION 1 PART III**

**ENGINE MODIFICATION RECORD**

1. ENGINE SERIAL NUMBER: CAE311096		2. ENGINE MODEL: AE3007A1			
3. MODIFICATION INFORMATION			5. SIGNATURE ENTRY and COMPANY		
BULLETIN OR DIRECTIVE NUMBER	ISSUE/REVISION DATE	SUBJECT OF BULLETIN OR DIRECTIVE	TYPE	CERTIFICATION TYPE & NUMBER	ORGANIZATION
SB AE3007A-72-210	REVISION 01 AUGUST 06, 2001	ENGINE - INSPECT THE HIGH-PRESSURE TURBINE, 4 <sup>th</sup> -STAGE VANES AND BLADES	ONE-TIME RESERVING	DAC 7507-01	ROLLS-ROYCE BRASIL
SB AE3007A-72-215	ORIGINAL OCTOBER 16, 2001	ENGINE - INSTALL THE 2 <sup>nd</sup> -STAGE HIGH-PRESSURE TURBINE WHEEL BALANCE WEIGHTS (23039853)	ONE-TIME RESERVING	DAC 7507-01	ROLLS-ROYCE BRASIL
SB AE3007A-72-219	ORIGINAL MAY 14, 2001	ENGINE - INSPECT THE PMA GEARSHAFT RADIAL END PLAY	ONE-TIME RECURRING	DAC 7507-01	ROLLS-ROYCE BRASIL
SB AE3007A-72-220	ORIGINAL MAY 15, 2001	ENGINE - INSPECT THE FAN BLADES	ONE-TIME RESERVING	DAC 7507-01	ROLLS-ROYCE BRASIL
SB AE3007A-72-226	ORIGINAL NOVEMBER 13, 2001	ENGINE - FRONT FRAME MOUNTING-PAD BORE INSPECTION AND REPAIR	ONE-TIME RESERVING	DAC 7507-01	ROLLS-ROYCE BRASIL
SB AE3007A-72-229	ORIGINAL AUGUST 31, 2001	ENGINE - INSTALL THE MID-SPAN BEARING WITH LOCTITE 260	ONE-TIME RESERVING	DAC 7507-01	ROLLS-ROYCE BRASIL
SB AE3007A-72-230	ORIGINAL NOVEMBER 05, 2000	ENGINE - NEW MID-SPAN BEARING HOUSING COVER	ONE-TIME RESERVING	DAC 7507-01	ROLLS-ROYCE BRASIL
SB AE3007A-75-015	ORIGINAL OCTOBER 16, 2001	AIR - NEW TORQUETUBE ASSEMBLY (23071270)	ONE-TIME RESERVING	DAC 7507-01	ROLLS-ROYCE BRASIL
SB AE3007A-76-007	REVISION 01 JANUARY 18, 2001	ENGINE CONTROLS - INSTALL THE HEAT - SHRINKABLE TUBING AROUND, OR TAPE THE P2.5 SENSOR HARNESS CONNECTORS	ONE-TIME RESERVING	DAC 7507-01	ROLLS-ROYCE BRASIL
SB AE3007A-76-008	REVISION 02 JULY 02, 2001	ENGINE CONTROLS - INSTALL THE HEAT - SHRINKABLE TUBING AROUND, OR TAPE THE P2.5 SENSOR HARNESS CONNECTORS	ONE-TIME RESERVING	DAC 7507-01	ROLLS-ROYCE BRASIL
SB AE3007A-79-017	REVISION 04 JUNE 06, 2001	OIL - INSPECT THE SCAVENGE OIL-AFT SUMP REAR AND FORWARD OIL SCAVENGE TUBES	ONE-TIME RESERVING	DAC 7507-01	ROLLS-ROYCE BRASIL
NTO AE3007A-033	ISSUE 01 APRIL 26, 2001	INSPECT THE FAN SUMP FOR MACHINING DEBRIS (SWARF)	ONE-TIME RECURRING	DAC 7507-01	ROLLS-ROYCE BRASIL

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*ABOS*

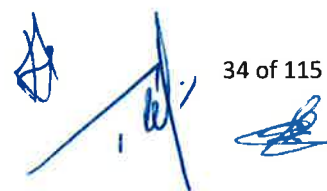


**SECTION 1 PART III ENGINE MODIFICATION RECORD**

1. ENGINE SERIAL NUMBER: CAE311096		2. ENGINE MODEL: AE3007A1	
3. MODIFICATION INFORMATION			
BULLETIN OR DIRECTIVE NUMBER	ISSUE/REVISION DATE	SUBJECT OF BULLETIN OR DIRECTIVE	TYPE
SB AE3007A-72-125	ORIGINAL NOVEMBER 18, 1998	ENGINE - OUTER BYPASS-DUCT ASSEMBLY-MOLDED INSERT TEST	ONE-TIME RESERVING
SB AE3007A-A-72-131	REVISION 04 DECEMBER 11, 2000	ENGINE - ACCESSORY GEZRBX STARTER PAD DRAIN-CAP THE FITTING	ONE-TIME RESERVING
SB AE3007A-72-162	REVISION 01 OCTOBER 24, 2000	ENGINE - NEW REAR TURBINE BEARING SUPPORT (23073081) (AFT SUMP REWORK)	ONE-TIME RESERVING
SB AE3007A-72-165	REVISION 01 DECEMBER 06, 2000	ENGINE - NEW LOW PRESSURE TURBINE REAR-SHAFT PLUG (23073072)	ONE-TIME RESERVING
SB AE3007A-72-168	REVISION 01 DECEMBER 11, 2000	ENGINE - NEW INLET HOUSING HUB FLOWPATH EXTENSION (23073167)	ONE-TIME RESERVING
SB AE3007A-72-171	REVISION 01 DECEMBER 08, 2000	ENGINE - NEW CENTER SUMP HARDWARE TO REDUCE HIGH MAIN OIL PRESSURE PARTIAL INCORPORATION	ONE-TIME RESERVING
SB AE3007A-A-72-178	REVISION 03 DECEMBER 01, 2000	ENGINE - RESET THE INLET GUIDE VANES	ONE-TIME RESERVING
SB AE3007A-A-72-179	REVISION 02 OCTOBER 17, 2000	ENGINE - ACID ETCH INSPECTION OF THE 9 <sup>th</sup> -STAGE HIGH-PRESSURE TURBINE WHEEL	ONE-TIME RESERVING
SB AE3007A-72-181	ORIGINAL JULY 25, 2000	ENGINE - INSPECT THE HP-LP TURBINE SEAL INSTALLATION	ONE-TIME RESERVING
SB AE3007A-72-182	REVISION 01 DECEMBER 11, 2000	ENGINE - NEW IN05 CARBON SEAL (23073831)	ONE-TIME RESERVING
SB AE3007A-72-186	ORIGINAL SEPTEMBER 21, 2000	ENGINE - NEW 1 <sup>st</sup> -STAGE HIGH-PRESSURE TURBINE VANE ASSEMBLY (23073494)	ONE-TIME RESERVING

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4. COMPLIANCE TIME		5. SIGNATURE ENTRY and COMPANY	
INTERVAL	NEXT DUE	AUTHORIZED SIGNATURE	ORGANIZATION
ACCOMPLISHED			
N/A	N/A		ROLLS-ROYCE BRASIL
23 FEB 2001	23 FEB 2001	<i>[Signature]</i> DAC 7507-01	ROLLS-ROYCE BRASIL
SEE SB / AD	SB / AD		ROLLS-ROYCE BRASIL
23 FEB 2001	23 FEB 2001	<i>[Signature]</i> DAC 7507-01	ROLLS-ROYCE BRASIL
N/A	N/A		ROLLS-ROYCE BRASIL
23 FEB 2001	23 FEB 2001	<i>[Signature]</i> DAC 7507-01	ROLLS-ROYCE BRASIL
N/A	N/A		ROLLS-ROYCE BRASIL
23 FEB 2001	23 FEB 2001	<i>[Signature]</i> DAC 7507-01	ROLLS-ROYCE BRASIL
N/A	N/A		ROLLS-ROYCE BRASIL
23 FEB 2001	23 FEB 2001	<i>[Signature]</i> DAC 7507-01	ROLLS-ROYCE BRASIL
N/A	N/A		ROLLS-ROYCE BRASIL
23 FEB 2001	23 FEB 2001	<i>[Signature]</i> DAC 7507-01	ROLLS-ROYCE BRASIL
N/A	N/A		ROLLS-ROYCE BRASIL
23 FEB 2001	23 FEB 2001	<i>[Signature]</i> DAC 7507-01	ROLLS-ROYCE BRASIL
N/A	N/A		ROLLS-ROYCE BRASIL
23 FEB 2001	23 FEB 2001	<i>[Signature]</i> DAC 7507-01	ROLLS-ROYCE BRASIL
N/A	N/A		ROLLS-ROYCE BRASIL
23 FEB 2001	23 FEB 2001	<i>[Signature]</i> DAC 7507-01	ROLLS-ROYCE BRASIL
N/A	N/A		ROLLS-ROYCE BRASIL
23 FEB 2001	23 FEB 2001	<i>[Signature]</i> DAC 7507-01	ROLLS-ROYCE BRASIL



# ENGINE MODIFICATION RECORD

## SECTION 1 PART III

1. ENGINE SERIAL NUMBER: CAE311096		2. ENGINE MODEL: AE3007A1	
3. MODIFICATION INFORMATION			
BULLETIN OR DIRECTIVE NUMBER	ISSUE/REVISION DATE	SUBJECT OF BULLETIN OR DIRECTIVE	TYPE
SB AE3007A-72-188	ORIGINAL AUGUST 31, 2000	ENGINE - REMOVE THE CRUCIFORM BOLTS FROM THE FAN-BEARING SUPPORT HOUSING	ONE-TIME REPAIRING
SB AE3007A-72-191	ORIGINAL DECEMBER 11, 2000	ENGINE - ACCESSORY GEARBOX-INSTALL THE DRAIN PLUG	ONE-TIME REPAIRING
SB AE3007A-72-195	ORIGINAL SEPTEMBER 18, 2000	ENGINE - FAN WHEEL INSPECTION	ONE-TIME REPAIRING
SB AE3007A-72-197	ORIGINAL DECEMBER 01, 2000	ENGINE - NEW STATIONARY LABYRINTH SEAL (23073906)	ONE-TIME REPAIRING
SB AE3007A-72-199	ORIGINAL OCTOBER 27, 2000	ENGINE - NEW HP TO LP TURBINE SEAL ASSEMBLY (23073953)	ONE-TIME REPAIRING
SB AE3007A-72-201	REVISION 01 DECEMBER 22, 2000	ENGINE - INSPECT THE MID-SPAN ROLLER BEARING AND RETAINING RING	ONE-TIME REPAIRING
SB AE3007A-76-006	REVISION 01 JANUARY 18, 2001	ENGINE CONTROLS - INSTALL THE HEAT-SHRINKABLE TUBING AROUND, OR TAPE THE ITT HARNESS CONNECTORS	ONE-TIME REPAIRING
SB AE3007A-79-009	REVISION 01 MARCH 13, 1998	OIL - OIL TANK INSPECTION FOR OPERATION WITH INCREASED MCP	ONE-TIME REPAIRING
SB AE3007A-79-010	REVISION 04 MARCH 29, 2000	OIL - NEW VENT TUBE SYSTEM TUBES (23065523 AND 23065524)	ONE-TIME REPAIRING
SB AE3007A-79-017	REVISION 03 DECEMBER 07, 2000	OIL - INSPECT THE SCAVENGE OIL AFT-SUMP REAR AND FORWARD OIL-SCAVENGE TUBES	ONE-TIME REPAIRING
SB AE3007A-79-025	REVISION 01 DECEMBER 11, 2000	OIL - NEW OIL TANK PRESSURE RELIEF KIT	ONE-TIME REPAIRING

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4. COMPLIANCE TIME			
INTERVAL	NEXT DUE	AUTHORIZED SIGNATURE	ORGANIZATION
N/A	N/A	<i>[Signature]</i>	ROLLS-ROYCE BRASIL
23 FEB 2001	N/A	<i>[Signature]</i>	ROLLS-ROYCE BRASIL
N/A	N/A	<i>[Signature]</i>	ROLLS-ROYCE BRASIL
23 FEB 2001	N/A	<i>[Signature]</i>	ROLLS-ROYCE BRASIL
N/A	N/A	<i>[Signature]</i>	ROLLS-ROYCE BRASIL
23 FEB 2001	N/A	<i>[Signature]</i>	ROLLS-ROYCE BRASIL
N/A	N/A	<i>[Signature]</i>	ROLLS-ROYCE BRASIL
23 FEB 2001	N/A	<i>[Signature]</i>	ROLLS-ROYCE BRASIL
N/A	N/A	<i>[Signature]</i>	ROLLS-ROYCE BRASIL
23 FEB 2001	N/A	<i>[Signature]</i>	ROLLS-ROYCE BRASIL
N/A	N/A	<i>[Signature]</i>	ROLLS-ROYCE BRASIL
23 FEB 2001	N/A	<i>[Signature]</i>	ROLLS-ROYCE BRASIL
N/A	N/A	<i>[Signature]</i>	ROLLS-ROYCE BRASIL
23 FEB 2001	N/A	<i>[Signature]</i>	ROLLS-ROYCE BRASIL
N/A	N/A	<i>[Signature]</i>	ROLLS-ROYCE BRASIL
23 FEB 2001	N/A	<i>[Signature]</i>	ROLLS-ROYCE BRASIL
N/A	N/A	<i>[Signature]</i>	ROLLS-ROYCE BRASIL
23 FEB 2001	N/A	<i>[Signature]</i>	ROLLS-ROYCE BRASIL
N/A	N/A	<i>[Signature]</i>	ROLLS-ROYCE BRASIL
23 FEB 2001	N/A	<i>[Signature]</i>	ROLLS-ROYCE BRASIL
N/A	N/A	<i>[Signature]</i>	ROLLS-ROYCE BRASIL
23 FEB 2001	N/A	<i>[Signature]</i>	ROLLS-ROYCE BRASIL
N/A	N/A	<i>[Signature]</i>	ROLLS-ROYCE BRASIL
23 FEB 2001	N/A	<i>[Signature]</i>	ROLLS-ROYCE BRASIL

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**SECTION 1 PART III**

**ENGINE MODIFICATION RECORD**

1. ENGINE SERIAL NUMBER: CAE311096		2. ENGINE MODEL: AE3007A1	
3. MODIFICATION INFORMATION			
BULLETIN OR DIRECTIVE NUMBER	ISSUE/REVISION DATE	SUBJECT OF BULLETIN OR DIRECTIVE	TYPE
SB AE3007A-79-026	REVISION 02 JANUARY 01, 2001	OIL - NEW PRESSURE SENSOR (23073475)	ONE-TIME RECURRING
SB AE3007A-79-028	ORIGINAL AUGUST 11, 2000	OIL - INSPECT THE OIL PRESSURE SENSOR (23073475)	ONE-TIME RECURRING
SL AE3007A-SL-033	ORIGINAL DECEMBER 10, 1999	INSPECT THE FAN SUMP FOR MACHINING DEBRIS (SWARF)	ONE-TIME RECURRING
SL AE3007A-SL-044	REVISION 01 OCTOBER 24, 2000	COMPRESSOR VARIABLE VANE RIGGING	ONE-TIME RECURRING
53 AE3007A-72-195	REVISION 01 MARCH 7, 2001	THE ONE-TIME RE-INSPECTION OF THE FAN WHEEL IS SUBJECT TO THE ORIGINAL ISSUE OF SERVICE BULLETIN AE3007A-72-195, REVISION 1, DATED MARCH 7, 2001.	ONE-TIME RECURRING
56 AE 3007 A 72-196	ORIGINAL JULY 23, 2001	ENGINE-NT03 OIL SUPPLY TUBE WEAR PREVENTIVE MIT	ONE-TIME RECURRING

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













4. COMPLIANCE TIME		6. SIGNATURE ENTRY and COMPANY	
INTERVAL	NEXT DUE	AUTHORIZED SIGNATURE	ORGANIZATION
N/A	N/A	<i>[Signature]</i>	ROLLS-ROYCE BRASIL
23 FEB 2001	23 FEB 2001	DAE 7307-01	ROLLS-ROYCE BRASIL
N/A	N/A	<i>[Signature]</i>	ROLLS-ROYCE BRASIL
23 FEB 2001	23 FEB 2001	DAE 7307-01	ROLLS-ROYCE BRASIL
N/A	N/A	<i>[Signature]</i>	ROLLS-ROYCE BRASIL
23 FEB 2001	23 FEB 2001	DAE 7307-01	ROLLS-ROYCE BRASIL
N/A	N/A	<i>[Signature]</i>	ROLLS-ROYCE BRASIL
23 FEB 2001	23 FEB 2001	DAE 7307-01	ROLLS-ROYCE BRASIL
N/A	N/A	<i>[Signature]</i>	RIO SUL ENG. DEPARTMENT
09 NOV 2001	09 NOV 2001	<i>[Signature]</i>	RIO SUL ENG. DEPARTMENT
N/A	N/A	<i>[Signature]</i>	RIO SUL ENG. DEPARTMENT
17 OCT 2001	17 OCT 2001	<i>[Signature]</i>	RIO SUL ENG. DEPARTMENT




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**SECTION 1 PART III ENGINE MODIFICATION RECORD**

1. ENGINE SERIAL NUMBER: CAE311096		2. ENGINE MODEL: AE3007A1	
3. MODIFICATION INFORMATION			
BULLETIN OR DIRECTIVE NUMBER	ISSUE/REVISION DATE	SUBJECT OF BULLETIN OR DIRECTIVE	TYPE
SB AE3007A-72-083	REVISION 01 MARCH 29, 2000	ENGINE - NEW N <sup>o</sup> 4 CARBON SEAL (23071366 OR 23071860)	ONE-TIME REPAIRING
SB AE3007A-72-104	REVISION 03 APRIL 13, 2000	ENGINE - NEW UPPER AND LOWER REAR TURBINE BEARING SUPPORT HEAT SHIELDS	ONE-TIME REPAIRING
SB AE3007A-72-109	REVISION 01 MARCH 29, 2000	ENGINE - NEW N <sup>o</sup> 4 TEFLON LIP SEAL (23070367)	ONE-TIME REPAIRING
SB AE3007A-72-125	ORIGINAL NOVEMBER 18, 1999	ENGINE - OUTER BYPASS-DUCT ASSEMBLY- MOLDED INSERT TEST	ONE-TIME REPAIRING
SB AE3007A-A-72-131	REVISION 03 MARCH 24, 2000	ENGINE - ACCESSORY GEARBOX STARTER PAD DRAIN-CAP THE FITTING	ONE-TIME REPAIRING
SB AE3007A-A-72-143	REVISION 03 APRIL 04, 2000	ENGINE - FRONT FRAME ASSEMBLY- REWORK	ONE-TIME REPAIRING
SB AE3007A-72-156	REVISION 01 JULY 05, 2000	ENGINE - NEW FAN TEFLON LIP SEAL (23072306)	ONE-TIME REPAIRING
SB AE3007A-72-167	ORIGINAL APRIL 12, 2000	ENGINE - NEW FAN SPINNER ASSEMBLY (23070664)	ONE-TIME REPAIRING
SB AE3007A-72-173	ORIGINAL APRIL 16, 2000	ENGINE - INSPECT THE COATING ON THE STATIONARY LABYRINTH SPACER (23057890)	ONE-TIME REPAIRING
SB AE3007A-72-176	REVISION 01 JUNE 30, 2000	ENGINE - REMOVE THE 2 <sup>nd</sup> STAGE HIGH PRESSURE TURBINE WHEEL BALANCE LIMITS	ONE-TIME REPAIRING
SB AE3007A-A-72-178	ORIGINAL JUNE 27, 2000	ENGINE - RESET THE INLET GUIDE VANES	ONE-TIME REPAIRING

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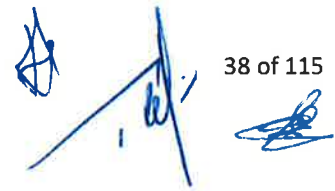
4. COMPLIANCE TIME				6. SIGNATURE ENTRY and COMPANY	
INTERVAL	NEXT DUE	ACCOMPLISHED	CERTIFICATION TYPE & NUMBER	AUTHORIZED SIGNATURE	ORGANIZATION
N/A	N/A	N/A	DAC 7507-01		ROLLS-ROYCE BRASIL
N/A	N/A	N/A	DAC 7507-01		ROLLS-ROYCE BRASIL
N/A	N/A	N/A	DAC 7507-01		ROLLS-ROYCE BRASIL
N/A	N/A	N/A	DAC 7507-01		ROLLS-ROYCE BRASIL
N/A	N/A	N/A	DAC 7507-01		ROLLS-ROYCE BRASIL
N/A	N/A	N/A	DAC 7507-01		ROLLS-ROYCE BRASIL
N/A	N/A	N/A	DAC 7507-01		ROLLS-ROYCE BRASIL
N/A	N/A	N/A	DAC 7507-01		ROLLS-ROYCE BRASIL
N/A	N/A	N/A	DAC 7507-01		ROLLS-ROYCE BRASIL
N/A	N/A	N/A	DAC 7507-01		ROLLS-ROYCE BRASIL
N/A	N/A	N/A	DAC 7507-01		ROLLS-ROYCE BRASIL
N/A	N/A	N/A	DAC 7507-01		ROLLS-ROYCE BRASIL
N/A	N/A	N/A	DAC 7507-01		ROLLS-ROYCE BRASIL
N/A	N/A	N/A	DAC 7507-01		ROLLS-ROYCE BRASIL

### SECTION 1 PART III ENGINE MODIFICATION RECORD

1. ENGINE SERIAL NUMBER: CAE311096		2. ENGINE MODEL: AE3007A1	
3. MODIFICATION INFORMATION			
BULLETIN OR DIRECTIVE NUMBER	ISSUE/REVISION DATE	SUBJECT OF BULLETIN OR DIRECTIVE	TYPE
SB AE3007A-75-016	ORIGINAL JULY 19, 1999	AIR - BLEED CONTROL TUBE - CLAMPING	ONE-TIME RECURRING
AE 3007A-79-009	REVISION 01 MARCH 13, 1998	OIL - OIL TANK INSPECTION FOR OPERATION WITH INCREASED MOP	ONE-TIME RECURRING
AE3007A-79-021	REVISION 04 JUNE 19, 2000	OIL - NEW CENTER SUMP VENT TUBES	ONE-TIME RECURRING
AE3007A-79-022	REVISION 01 MARCH 29, 2000	OIL - REMOVE THE OIL VENT TUBE (29061066)	ONE-TIME RECURRING
SB AE3007A-79-025	ORIGINAL AUG 01, 2000	OIL - NEW OIL TANK PRESSURE RELIEF KIT (OT 145-79-004)	ONE-TIME RECURRING
			ONE-TIME RECURRING
			ONE-TIME RECURRING
			ONE-TIME RECURRING
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**SECTION 1 PART III ENGINE MODIFICATION RECORD**

1. ENGINE SERIAL NUMBER: CAE311096		2. ENGINE MODEL: AE3007A1						
3. MODIFICATION INFORMATION			4. COMPLIANCE TIME			5. SIGNATURE ENTRY AND COMPANY		
BULLETIN OR DIRECTIVE NUMBER	ISSUE/REVISION DATE	SUBJECT OF BULLETIN OR DIRECTIVE	TYPE	INTERVAL	ACCOMPLISHED	NEXT DUE	CERTIFICATION TYPE & NUMBER	ORGANIZATION
S.B. AE3007A-73-125	Original November 18, 98	Engine - Outer Bypass Duct Assy Malfunction Invert Test	ONE-TIME REPAIRING	N/A	N/A	N/A	Autentis 1712A ✓ DAC 1507-01	MOTORES ROLLS ROYCE
S.B. AE3007A-A-73-142	Revision 2 August 31, 99	Engine - Fan Spinner Assembly Installation	ONE-TIME REPAIRING	03 NOV/99	see Source Bulletin	03 NOV/99	Autentis 1712A ✓ DAC 1507-01	MOTORES ROLLS ROYCE
S.B. AE3007A-75-008	Original May 01, 99	Air - New Service Bleed Manifold Adapter	ONE-TIME REPAIRING	N/A	N/A	N/A	Autentis 1712A ✓ DAC 1507-01	MOTORES ROLLS ROYCE
S.B. AE3007A-79-017	Revision 01 January 26, 99	Oil - Invert to Oil Sealing AF Sump Pan and Forward Oil Sealing Pan	ONE-TIME REPAIRING	N/A	N/A	N/A	Autentis 1712A ✓ DAC 1507-01	MOTORES ROLLS ROYCE
			ONE-TIME					
			RECURRING					
			ONE-TIME					
			RECURRING					
			ONE-TIME					
			RECURRING					
			ONE-TIME					
			RECURRING					
			ONE-TIME					
			RECURRING					
			ONE-TIME					
			RECURRING					
			ONE-TIME					
			RECURRING					

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## ENGINE INSPECTION RECORD

### SECTION 1 PART IV

1. ENGINE SERIAL NUMBER: CAE311096		2. ENGINE MODEL: AE3007A1						
3. INSPECTION INFORMATION			4. COMPLIANCE TIME			5. SIGNATURE ENTRY and COMPANY		
INSPECTION NUMBER	INSPECTION DESCRIPTION	REFERENCE DOCUMENT	ENGINE	INTERVAL	NEXT DUE	DATE	AUTHORIZED SIGNATURE	ORGANIZATION
05-21-00 72-20-00	Air Inlet Section ( Fan Assembly ) GVI IAW the MM 72-00-00-200-801	RRB W.O. # 257593	10,666:45 12,777	4000 HRS N/A	14,666:45 TSN N/A	16 DECEMBER 2005	<i>[Signature]</i> DAC/7507-01	ROLLS-ROYCE BRASIL
05-21-00 72-21-15	Fan Blades - Detailed inspection ( Ref. MM )	RRB W.O. # 257593	10,666:45 12,777	4000 HRS N/A	14,666:45 TSN N/A	16 DECEMBER 2005	<i>[Signature]</i> -DAC/7507-01	ROLLS-ROYCE BRASIL
05-21-00 72-60-00	Accessory Drives Section - GVI IAW the MM 72-00-00-200-801	RRB W.O. # 257593	10,666:45 12,777	8000 HRS N/A	18,666:45 TSN N/A	16 DECEMBER 2005	<i>[Signature]</i> DAC/7507-01	ROLLS-ROYCE BRASIL
05-21-00 73-11-10	Fuel Nozzles set replaced as per SB-72-260, P/N installed 23077006.	RRB W.O. # 257593	10,666:45 12,777	10000 HRS N/A	20,666:45 TSN N/A	16 DECEMBER 2005	<i>[Signature]</i> -DAC/7507-01	ROLLS-ROYCE BRASIL
AD 2000-11-22	Fan Wheel P/N 23058865 S/N FR106987 and Aft Blade Retainer inspection IAW EIM Manual	RRB W.O. # 257593	10,666:45 12,777	N/A 5000 CYCLES	Next shop visit after engines overhaul 17,777 CSN	16 DECEMBER 2005	<i>[Signature]</i> -DAC/7507-01	ROLLS-ROYCE BRASIL

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**SECTION 1 PART IV ENGINE INSPECTION RECORD**

1. ENGINE SERIAL NUMBER: CAE311096  
 2. ENGINE MODEL: AE3007A1

3. INSPECTION INFORMATION		4. COMPLIANCE TIME			5. SIGNATURE ENTRY and COMPANY			
INSPECTION NUMBER	INSPECTION DESCRIPTION	REFERENCE DOCUMENT	ENGINE	INTERVAL	NEXT DUE	DATE	AUTHORIZED SIGNATURE	ORGANIZATION
AD 2000-11-22	Fan Wheel inspection IAW EM TASK 72-21-21-200-801	RRB W.O. # 183204	CSN= 7,266	5000 CYCLES	1 <sup>st</sup> shop visit after engine achieves CSN = 12,266	N/A	<i>[Signature]</i> DAC 7507-01	ROLLS-ROYCE BRASIL




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*[Signature]*

**SECTION 1 PART IV ENGINE INSPECTION RECORD**

1. ENGINE SERIAL NUMBER: CAE311096		2. ENGINE MODEL: AE3007A1							
3. INSPECTION INFORMATION			4. COMPLIANCE TIME			5. SIGNATURE ENTRY and COMPANY			
INSPECTION NUMBER	INSPECTION DESCRIPTION	REFERENCE DOCUMENT	ENGINE	INTERVAL	NEXT DUE	DATE	AUTHORIZED SIGNATURE	CERTIFICATION TYPE & NUMBER	ORGANIZATION
AD 2003-11-22	Pin Wheel Inspection IAW EIA TASK 72-21-21_300-301	RFS W C # 133204	CSN= 7.266	5000 CYCLES	1 <sup>st</sup> shop time after engine achieves CSN = 12,286	N/A		DAC 7307-G1	ROLLS ROYCE BRASIL

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**SECTION 1 PART IV ENGINE INSPECTION RECORD**

1. ENGINE SERIAL NUMBER: CAE311096			2. ENGINE MODEL: AE3007A1					
3. INSPECTION INFORMATION			4. COMPLIANCE TIME				5. SIGNATURE ENTRY AND COMPANY	
INSPECTION NUMBER	INSPECTION DESCRIPTION	REFERENCE DOCUMENT	ENGINE	INTERVAL	NEXT DUE	DATE	AUTHORIZED SIGNATURE	ORGANIZATION
AD 2000-11-22	Final check inspection I RW EIN TADA 20-21-200-801	RRS V. 01# 153031	71266	151000	10-26-66	N/A	<i>[Signature]</i> DAC/ASO/2-1	RRB

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### SECTION 1 PART V ENGINE MAINTENANCE RECORD

1. ENGINE SERIAL NUMBER: CAE311096		2. ENGINE MODEL: AE3007A1			
3. COMPLIANCE INFORMATION			4. SIGNATURE ENTRY AND COMPANY		
DATE	DESCRIPTION OF MAINTENANCE ACTION	REFERENCE DOCUMENT	HOURS CYCLES	AUTHORIZED SIGNATURE CERTIFICATION TYPE & NUMBER	ORGANIZATION
16 DECEMBER 2005	Engine was disassembled, inspected, repaired, tested and accepted in accordance with the Engine Manual CSP31010, Rev. 18 dated 15 October 2005.	RRB W.O. # 257593	10.666:45	[Signature] DAC 7507-01	ROLLS ROYCE BRASIL
27 NOVEMBER 2014	REPLACED FUEL NOZZLE SET. BY CONVENIENCE ISO: 8941.1	WP22827498	15091.75 1.0611	FERNANDO STEPIEN CABW: 113844 [Signature]	EMBARER GPK LTDA

[Signatures]

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**SECTION 1 PART V ENGINE MAINTENANCE RECORD**

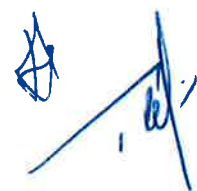
1. ENGINE SERIAL NUMBER: CAE311096		2. ENGINE MODEL: AE3007A1	
3. COMPLIANCE INFORMATION			
DATE	DESCRIPTION OF MAINTENANCE ACTION	REFERENCE DOCUMENT	HOURS CYCLES
19 NOV 1998	Fuel system preserved with MIL-O-6081 oil.		0
5 Dec 1998	The preserved oil of the fuel system was removed.		0
5 Dec 1998	The engine oil system was filled with AEROSHELL 500.		0
05 OCT 1999	REMOVED ENGINE FROM THE LEFT HAND SIDE OF ACFT EM8145, SIN 1450 90 REG. PT-SPL AT RIO DE JANEIRO/SDU/RIO SUL	SDU	1906.2 TSN 2324 CSN
03 NOV 1999	Engine was disassembled, inspected, repaired and tested in accordance with the Heavy Maintenance Manual and addressed to return to Service.	WORK ORDER 116963	1906.2 TSN 2324 CSN
	Complied with the following SBs: 72-125, A-72-142, 75-208 and 79-017		
	Replaced the Fuel Nozzles Set; installed a double-ended set per CHM 73-12-12		
	Spin Spinner was inspected per 685 REGO/A-72-142 and no action found		
19 DEC 1999	ENGINE INSTALLED ON THE RIGHT HAND SIDE OF ACFT EM8145, SIN 145087 REG. PT-SPK AT SAO PAULO/CGH/RIO SUL	CGH	1906.2 TSN 2324 CSN
22 JUN 2000	REMOVED ENGINE FROM THE RIGHT HAND SIDE OF ACFT EM8145 SIN 145087 REG. PT-SPK. DUE TO VIBRATION	CGH	3008.8 TSN 3674 CSN

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SECTION 1 PART V ENGINE MAINTENANCE RECORD

1. ENGINE SERIAL NUMBER: CAE 311096		2. ENGINE MODEL: AE3007A1	
3. COMPLIANCE INFORMATION			
DATE	DESCRIPTION OF MAINTENANCE ACTION	REFERENCE DOCUMENT	HOURS CYCLES
24 AUG 2000	Engine was disassembled, inspected, repaired, tested and accepted in accordance with the Engine Manual CSP311010, revision 02 date 01/07/2000, and it is approved return service	Work order #137046	3,008.8 3,674
	Complied with the followings SB's: 72-083, 72-104, 72-109, 72-125, A-72-131, A-72-142, A-72-143, 72-156, A-72-173, 72-176, A-72-178, 75-016 79-009, 79-021 and 79-022.		
03 SEP 2000	INSTALLED ENGINE ON THE LEFT HAND SIDE OF ACFT ENG: 45, SIN 145065 REG. PT-SPT. AT SAZ. Paulo Cesar Rio Sul	CGH	3008.8 TSM 3674 CSN
04 JAN 2001	REPLACED FUEL NOZZLES ASSEMBLY AT Rio de Janeiro / S001 Rio Sul	SDU	3863.2 TSM
15 JAN 2001	REMOVED ENGINE FROM THE LEFT HAND SIDE OF ACFT ENG: 45, SIN 145065 REG. PT-SPT. DUE TO OIL LEAKAGE AND CRACKED FRONT FLAME	CGH	4948 CSU 3924.8 TSM
23 FEB 2001	Engine was disassembled, inspected, repaired, tested and accepted IAW the engine manual CSP3100 Revision 04 dated 04/JAN/2001 and it is approved return to service. For Service Bulletin and Service Return completed see section 1 part III.	RFB W/O# 155443	4832 CSU 3924.0 4832
			DAC 7507-01

GT-10040



**ENGINE MAINTENANCE RECORD**

2. ENGINE MODEL: AE 3007A1

**SECTION 1 PART V**

1. ENGINE SERIAL NUMBER: CAE311096

3. COMPLIANCE INFORMATION		4. SIGNATURE ENTRY and COMPANY			
DATE	DESCRIPTION OF MAINTENANCE ACTION	REFERENCE DOCUMENT	HOURS CYCLES	AUTHORIZED SIGNATURE	ORGANIZATION
26 FEB 2001	ENGINE INSTALLED ON THE LEFT HAND SIDE OF ACFT EM8145 SIN 145023 REG. PT-5283 AT SAO PAULO/CGM/RIO SUL	CGM	3924.0 TSW 4832 CSU	Sergio Rodrigues Pereira Rio Sul Airlines - reg. 3574-2 Emprego - CREA-RJ 126788/D	RIO SUL ENGINEERING DEPARTMENT
11 DEC 2001	REPLACED FUEL NOZZLES ASSEMBLY AT SAO PAULO/CGM/RIO SUL	CGM	5843.4 TSW 7211 CSU	Sergio Rodrigues Pereira Rio Sul Airlines - reg. 3574-2 Emprego - CREA-RJ 126788/D	RIO SUL ENGINEERING DEPARTMENT
16 DEC 2001	REMOVED ENGINE FROM THE LEFT HAND SIDE OF ACFT EM8145 SIN 145023 REG. PT-5283 DUE TO LLP LIMIT	CGM	5891.6 TSW 7266 CSU	Sergio Rodrigues Pereira Rio Sul Airlines - reg. 3574-2 Emprego - CREA-RJ 126788/D	RIO SUL ENGINEERING DEPARTMENT
31 JAN 2002	Engine was disassembled, inspected, subassembled, assembled and successfully tested in accordance with the Check Manual CSP 31010.	ARC W.24# 183034	5871.6 TSW 7266 CSU	DAC 7507-01	Rolls-Royce Brasil
	Revised 07 data 01 October 2001 See Section I Part III for Service Bulletin and Notice to Operators incorporation.				
	Fuel Mangle Set (16cc) was inspected and cleaned FAV by CMM 73-13-12.				
	Engine is approved for returning to service.				
25 MAR 2002	ENGINE INSTALLED ON THE LEFT HAND SIDE OF ACFT EM8145 SIN 145023 REG. PT-5283 AT SAO PAULO/SDU	SDU	5891.6 TSW 7266 CSU	Ricardo M. Vilozio Rio Sul Airlines - reg. 6667/2 Power Plant Engineering Manager Emprego - CREA-RJ 126788/D	RIO SUL ENGINEERING DEPARTMENT

01-10010

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SECTION 1 PART VI ENGINE TRANSFER RECORD

1. ENGINE SERIAL NUMBER: CAE311096		2. ENGINE MODEL: AE3007A1					
3. SHIPPING INFORMATION				4. RECEIVING INFORMATION			
DATE	SHIPPED FROM	SHIPPED TO	HOURS	REASON FOR TRANSFER	DATE	RECEIVED BY	
			CYCLES				
19 NOV 1998	Allison Engine Co. Indianapolis, IN USA	Embraer, Sao Jose Dos Campos Sao Paulo, Brazil	0				
			0				
05 OCT 1999	RIO SUL	ROLLS-ROYCE	1906.2 TSN 2324 CSN	TO REPAIR	08 OCT 1999	MOTORES ROLLS ROYCE	
03 NOV 1999	MOTORES ROLLS ROYCE	RIO-SUL	1906.2 TSN 2324 CSN	Return to Service	03 NOV 1999	RIO SUL / ENCS	
22 JUN 2000	RIO SUL	ROLLS ROYCE	3008.8 TSN 3674 CSN	TO REPAIR			
24 AUG 2000	ROLLS-ROYCE	RIO SUL	3008 TSN 3674 CSN	RETURN TO SERVICE			
15 JAN 2001	RIO SUL	ROLLS-ROYCE	3924.0 TSN 4832 CSN	TO REPAIR	2/10		
23 FEB 2001	Motors Royce Brasil	Rio-Sul	5924.0 4832	Return to Service			
16 DEC 2001	RIO SUL	ROLLS-ROYCE	5891.6 TSN 7266 CSN	TO REPAIR	17 DEC 2001	Rolls-Royce Brasil	
31 JAN 2002	Rolls-Royce Brasil	RIO-SUL	5891.6 TSN 7266 CSN	Repair - Return to Service			

GT-10041

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**SECTION 1 PART VII ENGINE EQUIPMENT RECORD**

1. EQUIPMENT NAME : FADEC		2. EQUIPMENT PIN: 23016628				3. EQUIPMENT SIN: 2X41309			
4. ENGINE IDENTIFICATION		5. EQUIPMENT INSTALLATION SECTION		6. EQUIPMENT REMOVAL SECTION		ENGINE TOTAL		EQUIP. TOTAL	
MODEL NUMBER	SERIAL NUMBER	DATE	HOURS	CYCLES	DATE	HOURS	CYCLES	HOURS	CYCLES
AE3007A1	CAE310016	UNK	UNK	UNK					

7. MAINTENANCE ACTION RECORD			ORGANIZATION
DATE	DESCRIPTION OF MAINTENANCE ACTION	SIGNATURE	
25 MAY - 2015	PHYSICAL IDENTIFICATION OF THE T/N'S AND S/N'S INSTALLED ON THE AIRCRAFT.	<i>[Signature]</i> Eng. Mec. Aeronautico CABW (2015)	EMBRAER (MP 21100 - 219)
	ACFT WITH FADEC FH / 2014 FC. ENGINE WITH 1436.5 FH / 8905 FC.		

GT-10046

**SECTION 1 PART VII ENGINE EQUIPMENT RECORD**

1. EQUIPMENT NAME : FADEC		2. EQUIPMENT P/N: 23076628				3. EQUIPMENT S/N: BX48467			
4. ENGINE IDENTIFICATION		5. EQUIPMENT INSTALLATION SECTION		6. EQUIPMENT REMOVAL SECTION		ENGINE TOTAL		EQUIP. TOTAL	
MODEL NUMBER	SERIAL NUMBER	DATE	HOURS	CYCLES	DATE	HOURS	CYCLES	HOURS	CYCLES
AE2007A1	CAE31096	UNK	UNK	UNK					

7. MAINTENANCE ACTION RECORD			ORGANIZATION
DATE	DESCRIPTION OF MAINTENANCE ACTION	SIGNATURE	
25-MAY-2015	PHYSICAL IDENTIFICATION OF THE P/N'S AND S/N'S INSTALLED ON THE AIRCRAFT. ACFT WITH 4760, 6FH/2097FC, ENGINE WITH 9138, 5FH/5105 FC	<i>[Signature]</i> Eng. Mec. Aeronautica CORP. AERONAUTICA	EMBRAER (WP 2108-219)

GT-10045

**Service Bulletin Compliance**

Engine Series: 3007A1  
 Engine Serial Number: 311096

Ship date: 11/19/98



SB Number	Title	Date	Incorporated	Published?
Module: Engine				
Module Serial Number: CAB311096				
X 3007A-72-005	New Lift Bracket Assembly	3/12/97	Incorporated	Published
/ 3007A-72-023	Outer Flowpath Diffuser	8/14/97	Incorporated	Published
/ 3007A-72-024	Releases New Inner Duct Assemblies	06/22/98	Incorporated	Published
/ 3007A-72-030	Rework Compressor to Turbine Shaft	9/12/97	Incorporated	Published
/ 3007A-72-031	New Compressor to Turbine Shaft	3/17/98	Incorporated	Published
/ 3007A-72-035	New Cylindrical Roller Bearing	1/27/98	Incorporated	Published
/ 3007A-72-052	New #5 Carbon Seal Assemblies	04/15/98	Incorporated	Published
X 3007A-72-059	Nameplate Change for 3007A1 to A1/1	04/21/98	Incorporated	Published
/ 3007A-72-064	No. 6 Carbon Seal Assembly with Steel SI	04/15/98	Incorporated	Published
/ 3007A-72-066	No. 4 Lip Seal	08/03/98	Incorporated	Published
X 3007A-72-118	New #4 Bearing - P/N 23071682		Incorporated	Not Published
X 3007A-73-005	ITT Trim Lead & Fuel Tubes Clamping	3/14/97	Incorporated	Published
/ 3007A-73-012	Additional Fuel Manifold Clamps	4/18/97	Incorporated	Published
X 3007A-73-017	False FADEC Internal Fault	04/27/98	Incorporated	Published
3007A-73-022	FADEC Version 11.6		Incorporated	Not Published
3007A-76-003	Electrical Harness Routing		Incorporated	Not Published
3007A-77-005	H/Fuel Connectors		Incorporated	Not Published
/ 3007A-77-006	Wrap Electrical Connectors	06/16/98	Incorporated	Published
/ 3007A-79-006	Re-release Old FCOC	8/14/97	Incorporated	Published
/ 3007A-79-007	New Oil Filter Unit Assembly	06/03/98	Incorporated	Published
/ 3007A-79-015	New Oil Tank (with air/oil sep)	04/22/98	Incorporated	Published

The intent of the above Service Bulletins are incorporated into Engine Serial Number 311096 as of 11/19/98

**SECTION 2 PART I** **MODULE SERVICE RECORD**

1. MODULE NAME: ACCY DRIVE GEARBOX		2. MODULE P/N: <del>23070061</del>		3. MODULE S/N: 0293							
4. ENGINE IDENTIFICATION			5. MODULE INSTALLATION SECTION			6. MODULE REMOVAL SECTION			7. REMARKS		
ENGINE MODEL NUMBER	ENGINE SERIAL NUMBER	DATE	ENGINE TOTAL HOURS	ENGINE TOTAL CYCLES	MODULE TOTAL HOURS	MODULE TOTAL CYCLES	REASON FOR REMOVAL				
AE3007A1	AE3007A1	21 MAY 1998	0	0	5,113.4	5,113.4	Convenience				
AE3007A1	CAE311025	06 FEB 2001	6,507.0	6,325	6,740.6	6,325	Convenience - dispatched to be installed in CAE311096				
AE3007A1	CAE310038	15 MAY 2001	7,914	6,325	8,202	6,613					
AE3007A1	CAE311096	2001	43647 TSN	5,347.0							
			5411 CSW	6,613							

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**SECTION 2 PART II**

**MODULE ASSEMBLY RECORD**

1. MODULE NAME: **ACCY DRIVE GEARBOX**      2. MODULE PIN: **23070661**      3. MODULE SN: **0293**

4. ASSEMBLY IDENTIFICATION		5. MAINTENANCE ACTIVITY		4. ASSEMBLY IDENTIFICATION		5. MAINTENANCE ACTIVITY	
ASSEMBLY NAME	PART NUMBER SERIAL NUMBER	INSTALL DATE	REMOVE DATE	ASSEMBLY NAME	PART NUMBER SERIAL NUMBER	INSTALL DATE	REMOVE DATE

6. REMARKS

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## SECTION 2 PART III ASSEMBLY MODIFICATION RECORD

1. ASSEMBLY NAME: ACCY DRIVE GEARBOX			2. ASSEMBLY PIN: 23070661			3. ASSEMBLY SIN: 0293		
4. MODIFICATION INFORMATION		5. COMPLIANCE TIME			6. SIGNATURE ENTRY and COMPANY			
BULLETIN OR DIRECTIVE NUMBER	ISSUE/REVISION DATE	SUBJECT OF BULLETIN OR DIRECTIVE	TYPE	INTERVAL ACCOMPLISHED	NEXT DUE	AUTHORIZED SIGNATURE	CERTIFICATION TYPE & NUMBER	ORGANIZATION
SB AE3007A-72-299	REVISION 01 JULY 19, 2004	ENGINE - NEW RADIAL DRIVE QUILL SHAFT (2307207)	ONE TIME RECURRING	N/A	N/A	<i>[Signature]</i>	DA-C 7507-01	ROLLS-ROYCE BRASIL
SB AE3007A-74-005	REVISION 01 JUNE 2, 2003	IGNITION - PERMANENT MAGNET ALTERNATOR ROTOR AND STATOR INSPECTION	RECURRING	See SB	See SB	<i>[Signature]</i>	DA-C 7507-01	ROLLS-ROYCE BRASIL
SB AE3007A-74-007	REVISION 01 DECEMBER 16, 2002	IGNITION - PERMANENT MAGNET ALTERNATOR ROTOR INSPECTION	ONE TIME RECURRING	N/A	N/A	<i>[Signature]</i>	DA-C 7507-01	ROLLS-ROYCE BRASIL
<i>SB-72-326</i>				<i>N/A</i>	<i>N/A</i>			<i>Rolls Royce</i>
<i>SB-72-330</i>				<i>29 NOV 2004</i>				<i>BRASIL</i>

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**SECTION 2 PART III** **MODULE MODIFICATION RECORD**

1. MODULE NAME: ACCY DRIVE GEARBOX		2. MODULE PN: 23070661		3. MODULE SN: 0293		
4. MODIFICATION INFORMATION			5. COMPLIANCE TIME			
BULLETIN OR DIRECTIVE NUMBER	ISSUE/REVISION DATE	SUBJECT OF BULLETIN OR DIRECTIVE	TYPE	INTERVAL   NEXT DUE ACCOMPLISHED	SIGNATURE ENTRY and COMPANY CERTIFICATION TYPE & NUMBER	ORGANIZATION
SB AE3007A-72-115	Original / July 19, 1999	Engine - Accessory Drive Gearbox - New mounting Stud Washers	ONE-TIME <del>RECURRING</del>	N/A 12 January 2000	<i>[Signature]</i> DAC 7507-01	MOTORES ROLLS-ROYCE LTDA
SB AE3007A-A-72-131	Revision 02 March 30, 1999	Engine - Accessory Gearbox Starter Pad Cap the Fitting	ONE-TIME <del>RECURRING</del>	See SB 12 January 2000	<i>[Signature]</i> DAC 7507-01	MOTORES ROLLS-ROYCE LTDA
			ONE-TIME			
			RECURRING			
			ONE-TIME			
			RECURRING			
			ONE-TIME			
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			RECURRING			

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**SECTION 2 PART V MODULE MAINTENANCE RECORD**

1. MODULE NAME: ACCY DRIVE GEARBOX			2. MODULE PIN: 23070661			3. MODULE S/N: 0293			
4. COMPLIANCE INFORMATION						5. SIGNATURE ENTRY and COMPANY			
DATE	DESCRIPTION OF MAINTENANCE ACTION	REFERENCE DOCUMENT	HOURS CYCLES	AUTHORIZED SIGNATURE	CERTIFICATION TYPE & NUMBER	ORGANIZATION			
16 December, 2005	Visual inspection was carried out in accordance with the EM. directions. TS2 = 0.	RRB W/O # 257593	10,666:45 12,777	<i>[Signature]</i>	DAC 7507-01	ROLLS-ROYCE BRASIL			
	See Section 2 Part III for additional modifications incorporated during this shop visit in the Gearbox:-----								

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**Service Bulletin Compliance**

Engine Series: 3007A1/1      Ship date: 5/21/98  
 Engine Serial Number: 311025

SB Number	Title	Date	Incorporated	Published?
<b>Module: Accessory Gearbox</b>				
Module Serial Number: 0293				
✓ 3007A-72-027	New Accessory Gearbox Assembly	2/12/98	Incorporated	Published
X 3007A-72-070	Spacer, Starter Gearshaft	04/28/98	Incorporated	Published
X 3007A-79-010	Vent Tubes for Gearbox Rework	12/1/87	Incorporated	Published

The intent of the above Service Bulletins are incorporated into Engine Serial Number 311025 as of 5/21/98

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# SECTION 2 PART V MODULE MAINTENANCE RECORD

1. MODULE NAME: ACCY DRIVE GEARBOX 2. MODULE P/N: 23070661 3. MODULE SIN: 0293					
4. COMPLIANCE INFORMATION					
DATE	DESCRIPTION OF MAINTENANCE ACTION	REFERENCE DOCUMENT	HOURS CYCLES	5. SIGNATURE ENTRY and COMPANY	
				AUTHORIZED SIGNATURE	ORGANIZATION

GT-10044

DEFESA C. AERONAUTICA  
 FI: 295  
 Proc: 173981  
 Rub: *[Signature]*  
 CABW

*[Signature]*  
*[Signature]*  
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**SECTION 3 PART III ASSEMBLY MODIFICATION RECORD**

1. ASSEMBLY NAME: FAN ROTOR		2. ASSEMBLY PIN: 23063061		3. ASSEMBLY SIN: WD16356				
4. MODIFICATION INFORMATION			5. COMPLIANCE TIME			6. SIGNATURE ENTRY and COMPANY		
BULLETIN OR DIRECTIVE NUMBER	ISSUE/REVISION DATE	SUBJECT OF BULLETIN OR DIRECTIVE	TYPE	INTERVAL	NEXT DUE	AUTHORIZED SIGNATURE	CERTIFICATION TYPE & NUMBER	ORGANIZATION
SB AE3007A-72-247	REVISION 05 SEPTEMBER 1, 2005	ENGINE - REINFORCING PLATES (23078577) FOR PLUG REPAIRED FRONT FRAME FORWARD FLANGE	ONE-TIME RECURRING	N/A	N/A			ROLLS-ROYCE BRASIL
SB AE3007A-72-289	REVISION 01 JULY 19, 2004	ENGINE - REWORK THE FRONT FRAME ASSEMBLY AND INSTALL THE NEW SINGLE FORWARD GROUND HANDLING BRACKET	ONE-TIME RECURRING	N/A	N/A		DAQ 7507-01	ROLLS-ROYCE BRASIL
SB AE3007A-72-300	ORIGINAL APRIL 26, 2004	ENGINE - INSPECTION OF THE FAN-BLADE FORWARD RETAINER ASSEMBLY (23062491)	ONE-TIME RECURRING	N/A	N/A		DAQ 7507-01	ROLLS-ROYCE BRASIL
			ONE-TIME RECURRING					
			ONE-TIME RECURRING					
			ONE-TIME RECURRING					
			ONE-TIME RECURRING					
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			ONE-TIME RECURRING					
			ONE-TIME RECURRING					

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**SECTION 3 PART III ASSEMBLY MODIFICATION RECORD**

1. ASSEMBLY NAME: FAN ROTOR		2. ASSEMBLY P/N: 23063061		3. ASSEMBLY S/N: WD16356			
4. MODIFICATION INFORMATION							
BULLETIN OR DIRECTIVE NUMBER	ISSUE/REVISION DATE	SUBJECT OF BULLETIN OR DIRECTIVE	TYPE	5. COMPLIANCE TIME		6. SIGNATURE ENTRY and COMPANY	
				INTERVAL	NEXT DUE	AUTHORIZED SIGNATURE	ORGANIZATION
			ONE-TIME				
			RECURRING				
			ONE-TIME				
			RECURRING				
			ONE-TIME				
			RECURRING				
			ONE-TIME				
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			ONE-TIME				
			RECURRING				

GT-10048

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**SECTION 3 PART IV ASSEMBLY INSPECTION RECORD**

1. ASSEMBLY NAME: FAN ROTOR		2. ASSEMBLY PIN: 23063061		3. ASSEMBLY SIN#: WD16356				
4. INSPECTION INFORMATION			5. COMPLIANCE TIME			6. SIGNATURE ENTRY and COMPANY		
INSPECTION NUMBER	INSPECTION DESCRIPTION	REFERENCE DOCUMENT	MODULE	INTERVAL	NEXT DUE	DATE	AUTHORIZED SIGNATURE	ORGANIZATION
AD 2000-11-22	Fan Wheel P/N 23058865 SIN FR108987 and Air Blade Retainer Inspection IAW the EM Manual.	RRB W.O. # 257593	10,666-45 12,777	N/A 5000 CYCLES	next stop visit after engines arrives 17,777 CSN	16 DEC 2005	<i>[Signature]</i> DAC 7507-01	ROLLS-ROYCE BRASIL

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**SECTION 3 PART IV ASSEMBLY INSPECTION RECORD**

1. ASSEMBLY NAME: <b>FAN ROTOR</b>		2. ASSEMBLY P/N: <b>23063061</b>		3. ASSEMBLY S/N: <b>WD16356</b>					
4. INSPECTION INFORMATION			5. COMPLIANCE TIME			6. SIGNATURE ENTRY and COMPANY			
INSPECTION NUMBER	INSPECTION DESCRIPTION	REFERENCE DOCUMENT	MODULE	INTERVAL	NEXT DUE	DATE	AUTHORIZED SIGNATURE	CERTIFICATION TYPE & NUMBER	ORGANIZATION

GT-10049

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*[Signature]*  
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*[Signature]*

SECTION 3 PART V ASSEMBLY MAINTENANCE RECORD

1. ASSEMBLY NAME: FAN ROTOR		2. ASSEMBLY PIN: 23063061		3. ASSEMBLY S/N: WD16356	
4. COMPLIANCE INFORMATION					
DATE	DESCRIPTION OF MAINTENANCE ACTION	REFERENCE DOCUMENT	HOURS CYCLES	SIGNATURE ENTRY and COMPANY AUTHORIZED SIGNATURE CERTIFICATION TYPE & NUMBER	ORGANIZATION
16 December 2005	Fan Rotor was disassembled, inspected, repaired, assembled and balanced IAW the EM CSP 31010 Rev. 16 Dated October 15, 2005.	RRB W/O 257593	10,666:45 12,777	<i>[Signature]</i> DAC 7607-01	ROLLS-ROYCE BRASIL

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DEFESA C. AERONAUTICA  
Fl: 304  
Proc: 173981  
Rub: *[Signature]*  
CABW

*[Signature]*  
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*[Signature]*

### SECTION 3 PART V ASSEMBLY MAINTENANCE RECORD

1. ASSEMBLY NAME: FAN ROTOR		2. ASSEMBLY PIN: 23063061		3. ASSEMBLY SIN: WD16356		
4. COMPLIANCE INFORMATION						
6. SIGNATURE ENTRY and COMPANY			AUTHORIZED SIGNATURE			
DATE	DESCRIPTION OF MAINTENANCE ACTION	REFERENCE DOCUMENT	HOURS	CYCLES	CERTIFICATION TYPE & NUMBER	ORGANIZATION

GT-10050

W. DEFESA C. AERONÁUTICA  
Fl: 305  
Proc: 173981  
Rub: [Signature]  
CABW

[Signature] [Signature] 69 of 115 [Signature]

**Service Bulletin Compliance**  
 Engine Series: 3007A1 Ship date: 11/19/98  
 Engine Serial Number: 311096

SB Number	Title	Date	Incorporated	Published?
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Module: Fan Rotor				
Module Serial Number: WD16356				
✓ 3007A-72-025	Fan Spammer Nut Lock Plug	5/19/97	incorporated	Published
3007A-72-036	New Drive Fan Shaft Assy		incorporated	Not Published

The intent of the above Service Bulletins are incorporated into Engine Serial Number 311096 as of 11/19/98

  
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**SECTION 3 PART I** *23073388* **ASSEMBLY SERVICE RECORD**

1. ASSEMBLY NAME: COMPRESSOR ROTOR		2. ASSEMBLY PIN: <del>23064600</del>				3. ASSEMBLY S/N: A18269				
4. MODULE IDENTIFICATION NAME: ENGINE		5. ASSEMBLY INSTALLATION SECTION			6. ASSEMBLY REMOVAL SECTION			7. REMARKS		
PART NUMBER	SERIAL NUMBER	DATE	HOURS CYCLES	ASSEMBLY TOTAL HOURS CYCLES	DATE	HOURS CYCLES	ASSEMBLY TOTAL HOURS CYCLES	REASON FOR REMOVAL		
AE3007A1	CAE311096	19 NOV 1998	0 0	0 0						

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**SECTION 3 PART II** **LIFE LIMITED PARTS RECORD**

This record to remain with part listed.										
<b>2. PART NAME: 1ST STG WHEEL</b>			<b>3. PART NUMBER: 23065041</b>			<b>4. SERIAL NUMBER: L80078</b>				
<b>5. ASSEMBLY IDENTIFICATION</b>			<b>6. PART INSTALLATION SECTION</b>			<b>7. PART REMOVAL SECTION</b>				
NAME: COMPRESSOR ROTOR			ASSY TOTAL			ASSY TOTAL			PART TOTAL	
PART NUMBER			HOURS			HOURS			HOURS	
SERIAL NUMBER			CYCLES			CYCLES			CYCLES	
23065041			0			0				
A18269			0			0				
DATE			DATE			DATE				
19 NOV 1998										
8. REMARKS										

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**SECTION 3 PART II** **LIFE LIMITED PARTS RECORD**

This record to remain with part listed.											
2. PART NAME: <b>2ND STG WHEEL</b>			3. PART NUMBER: <b>23050752</b>			4. SERIAL NUMBER: <b>L84628</b>					
5. ASSEMBLY IDENTIFICATION											
NAME: COMPRESSOR ROTOR											
PART NUMBER											
SERIAL NUMBER <b>23073388</b>											
A18269											
6. PART INSTALLATION SECTION											
DATE			ASSY TOTAL			PART TOTAL			7. PART REMOVAL SECTION		
19 NOV 1998			HOURS CYCLES			HOURS CYCLES			DATE		
			0 0			0 0					
8. REMARKS											

GT-10047

**SECTION 3 PART II** **LIFE LIMITED PARTS RECORD**

This record to remain with part listed.

2. PART NAME: **3RD STG WHEEL**      3. PART NUMBER: **23065303**      4. SERIAL NUMBER: **L130733**

5. ASSEMBLY IDENTIFICATION  
 NAME: COMPRESSOR ROTOR

PART NUMBER	SERIAL NUMBER	DATE	6. PART INSTALLATION SECTION		DATE	7. PART REMOVAL SECTION		PART TOTAL	
			HOURS	CYCLES		HOURS	CYCLES	HOURS	CYCLES
<del>20064660</del>	<del>23D73388</del>	19 NOV 1998	0	0					
A18269			0	0					

8. REMARKS

GT-10047

**SECTION 3 PART II LIFE LIMITED PARTS RECORD**

2. PART NAME: 4TH STG WHEEL		3. PART NUMBER: 23050754		4. SERIAL NUMBER: L80944	
5. ASSEMBLY IDENTIFICATION		6. PART INSTALLATION SECTION		7. PART REMOVAL SECTION	
NAME: COMPRESSOR ROTOR	PART NUMBER	HOURS	CYCLES	HOURS	CYCLES
	SERIAL NUMBER	DATE		DATE	
	23050754	19 NOV 1998	0		
	A18269		0		

8. REMARKS

GT-10047

## SECTION 3 PART II



## LIFE LIMITED PARTS RECORD

This record to remain with part listed.

<b>2. PART NAME: 5TH STG WHEEL</b>		<b>3. PART NUMBER: 23065605</b>		<b>4. SERIAL NUMBER: L72940</b>	
5. ASSEMBLY IDENTIFICATION		6. PART INSTALLATION SECTION		7. PART REMOVAL SECTION	
NAME: COMPRESSOR ROTOR		ASSY TOTAL		PART TOTAL	
PART NUMBER		HOURS		HOURS	
SERIAL NUMBER		CYCLES		CYCLES	
23064660 2-30 7-3 388		DATE		DATE	
A18269		19 NOV 1998			

**8. REMARKS**

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**SECTION 3 PART II LIFE LIMITED PARTS RECORD**

2. PART NAME: 6TH STG WHEEL			3. PART NUMBER: 23062666			4. SERIAL NUMBER: L71719		
5. ASSEMBLY IDENTIFICATION			6. PART INSTALLATION SECTION			7. PART REMOVAL SECTION		
NAME: COMPRESSOR ROTOR			ASSY TOTAL			ASSY TOTAL		
PART NUMBER			HOURS	CYCLES	HOURS	CYCLES	HOURS	CYCLES
23064000	23073368		0	0				
A18269			0	0				
DATE			DATE			DATE		
19 NOV 1998								
8. REMARKS								

*[Signature]* 77 of 115 *[Signature]*

**SECTION 3 PART II LIFE LIMITED PARTS RECORD**

This record to remain with part listed.											
2. PART NAME: 7TH STG WHEEL			3. PART NUMBER: 23062667			4. SERIAL NUMBER: L89484					
5. ASSEMBLY IDENTIFICATION				6. PART INSTALLATION SECTION				7. PART REMOVAL SECTION			
NAME: COMPRESSOR ROTOR				ASSY TOTAL		PART TOTAL		ASSY TOTAL		PART TOTAL	
PART NUMBER				HOURS	HOURS	HOURS	HOURS	HOURS	HOURS	HOURS	HOURS
SERIAL NUMBER				CYCLES	CYCLES	CYCLES	CYCLES	CYCLES	CYCLES	CYCLES	CYCLES
20064000 23073368				0	0	0	0				
A18269				0	0	0	0				
DATE				DATE		DATE		DATE		DATE	
19 NOV 1998											
8. REMARKS											

GT-10047

*[Signature]*

**SECTION 3 PART II** **LIFE LIMITED PARTS RECORD**

This record to remain with part listed.

2. PART NAME: **8TH STG WHEEL** 3. PART NUMBER: **23071263** 4. SERIAL NUMBER: **L110879**

5. ASSEMBLY IDENTIFICATION		6. PART INSTALLATION SECTION			7. PART REMOVAL SECTION		
NAME: COMPRESSOR ROTOR		ASSY TOTAL			ASSY TOTAL		
PART NUMBER	SERIAL NUMBER	DATE	HOURS	CYCLES	HOURS	CYCLES	PART TOTAL
		DATE	HOURS	CYCLES	HOURS	CYCLES	HOURS
			CYCLES				CYCLES
<del>20064000</del>	<del>3073308</del>	19 NOV 1998	0	0			
A18269			0	0			

8. REMARKS

GT-10047



**SECTION 3 PART II** **LIFE LIMITED PARTS RECORD**

This record to remain with part listed.

2. PART NAME: <b>9TH STG WHEEL</b>			3. PART NUMBER: <b>23061629</b>			4. SERIAL NUMBER: <b>L117941</b>					
5. ASSEMBLY IDENTIFICATION				6. PART INSTALLATION SECTION				7. PART REMOVAL SECTION			
NAME: COMPRESSOR ROTOR				ASSY TOTAL		PART TOTAL		ASSY TOTAL		PART TOTAL	
PART NUMBER				HOURS	HOURS	HOURS	HOURS	HOURS	HOURS	HOURS	HOURS
SERIAL NUMBER				CYCLES	CYCLES	CYCLES	CYCLES	CYCLES	CYCLES	CYCLES	CYCLES
19 NOV 1998				0	0	0	0				
A18269				0	0	0	0				

**8. REMARKS**

GT-10047

W. DEFESA  
 C. AERONAUTICA  
 FI: 316  
 Proc: 173981  
 Rubi: *[Signature]*  
 CABW

*[Handwritten Signature]*

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*[Handwritten Signature]*

**SECTION 3 PART II** **LIFE LIMITED PARTS RECORD**

This record to remain with part listed.

2. PART NAME: 10TH STG WHEEL 4. SERIAL NUMBER: L74808

3. PART NUMBER: 23061630

5. ASSEMBLY IDENTIFICATION  
 NAME: COMPRESSOR ROTOR

PART NUMBER SERIAL NUMBER	DATE	6. PART INSTALLATION SECTION		7. PART REMOVAL SECTION		PART TOTAL	
		ASSY TOTAL HOURS CYCLES	PART TOTAL HOURS CYCLES	ASSY TOTAL HOURS CYCLES	PART TOTAL HOURS CYCLES		
20064600 23073358 A18269	19 NOV 1998	0 0	0 0				

8. REMARKS

GT-10047

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[Signature]

**SECTION 3 PART II** **LIFE LIMITED PARTS RECORD**

This record to remain with part listed.

2. PART NAME: 11TH STG WHEEL 3. PART NUMBER: 23066231 4. SERIAL NUMBER: L118268

5. ASSEMBLY IDENTIFICATION	6. PART INSTALLATION SECTION			7. PART REMOVAL SECTION		
	PART NUMBER	DATE	PART TOTAL HOURS CYCLES	DATE	PART TOTAL HOURS CYCLES	PART TOTAL HOURS CYCLES
2999-000-2707338 A18269	19 NOV 1998	0 0				

8. REMARKS



**SECTION 3 PART II** **LIFE LIMITED PARTS RECORD**

This record to remain with part listed.						
2. PART NAME: 13TH STG WHEEL			3. PART NUMBER: 23061633		4. SERIAL NUMBER: L75988	
5. ASSEMBLY IDENTIFICATION NAME: COMPRESSOR ROTOR PART NUMBER SERIAL NUMBER			6. PART INSTALLATION SECTION		7. PART REMOVAL SECTION	
			HOURS CYCLES	DATE	HOURS CYCLES	DATE
<del>23061633</del> 23073388 A18269			0	0	0	0
			0	19 NOV 1998	0	

8. REMARKS

GT-10047

**SECTION 3 PART II** **LIFE LIMITED PARTS RECORD**

This record to remain with part listed.

2. PART NAME: **14TH STG WHEEL** 3. PART NUMBER: **23061634** 4. SERIAL NUMBER: **L109684**

5. ASSEMBLY IDENTIFICATION  
 NAME: COMPRESSOR ROTOR

PART NUMBER	SERIAL NUMBER	6. PART INSTALLATION SECTION		7. PART REMOVAL SECTION		PART TOTAL	
		DATE	HOURS CYCLES	DATE	HOURS CYCLES	HOURS	CYCLES
29601660	2307358	19 NOV 1998	0 0				
A18269							

8. REMARKS

GT-10047

# SECTION 3 PART II LIFE LIMITED PARTS RECORD





This record to remain with part listed.

2. PART NAME: CONE SHAFT				3. PART NUMBER: 23073282				4. SERIAL NUMBER: MM245257				
5. ASSEMBLY IDENTIFICATION NAME: COMPRESSOR ROTOR				6. PART INSTALLATION SECTION				7. PART REMOVAL SECTION				
	PART NUMBER	SERIAL NUMBER	DATE	ASSY TOTAL		PART TOTAL		DATE	ASSY TOTAL		PART TOTAL	
				HOURS	CYCLES	HOURS	CYCLES		HOURS	CYCLES	HOURS	CYCLES
		23073388	31 JAN 2002	5,891.6								
		A18269		7,266	0							

8. REMARKS

GT-10047 -

**SECTION 3 PART III**

1. ASSEMBLY NAME: COMPRESSOR ROTOR		2. ASSEMBLY P/N: 23073388		3. ASSEMBLY S/N: A18269				
4. MODIFICATION INFORMATION			5. COMPLIANCE TIME			6. SIGNATURE ENTRY and COMPANY		
BULLETIN OR DIRECTIVE NUMBER	ISSUE/REVISION DATE	SUBJECT OF BULLETIN OR DIRECTIVE	TYPE	INTERVAL ACCOMPLISHED	NEXT DUE	AUTHORIZED SIGNATURE CERTIFICATION TYPE & NUMBER	ORGANIZATION	
SB AE3007A-72-239	ORIGINAL DECEMBER 20, 2001	ENGINE - REWORK THE NO. 6 BEARING INSERT	ONE TIME RECURRING	N/A	N/A	 DAC 7507-01	ROLLS-ROYCE BRASIL	
SB AE3007A-72-244	REVISION 03 FEBRUARY 04, 2004	ENGINE - 1 <sup>st</sup> -STAGE COMPRESSOR WHEEL BORE INSPECTION	RECURRING	N/A	N/A	 DAC 7507-01	ROLLS-ROYCE BRASIL	
SB AE3007A-72-302	ORIGINAL MARCH 15, 2004	ENGINE - NEW O-RING (M6344651-047) FOR THE NO.3 BEARING DAMPER	ONE TIME RECURRING	N/A	N/A	 DAC 7507-01	ROLLS-ROYCE BRASIL	
SB AE3007A-72-327	ORIGINAL MAY 09, 2005	NEW TEFLON SEAL (23080495) ON N° 4 CARBON SEAL.	ONE TIME RECURRING	N/A	N/A	 DAC 7507-01	ROLLS-ROYCE BRASIL	

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**SECTION 3 PART III ASSEMBLY MODIFICATION RECORD**

1. ASSEMBLY NAME: COMPRESSOR ROTOR				2. ASSEMBLY P/N: 29064060		3. ASSEMBLY S/N: A18269	
4. MODIFICATION INFORMATION				5. COMPLIANCE TIME		6. SIGNATURE ENTRY and COMPANY	
BULLETIN OR DIRECTIVE NUMBER	ISSUE/REVISION DATE	SUBJECT OF BULLETIN OR DIRECTIVE	TYPE	INTERVAL ACCOMPLISHED	NEXT DUE	AUTHORIZED SIGNATURE	ORGANIZATION
			ONE-TIME RECURRING				
			ONE-TIME RECURRING				
			ONE-TIME RECURRING				
			ONE-TIME RECURRING				
			ONE-TIME RECURRING				
			ONE-TIME RECURRING				
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			ONE-TIME RECURRING				
			ONE-TIME RECURRING				
			ONE-TIME RECURRING				

GT-10046

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*[Handwritten marks]*

**SECTION 3 PART IV ASSEMBLY INSPECTION RECORD**

1. ASSEMBLY NAME: COMPRESSOR ROTOR		2. ASSEMBLY P/N: 290664000		3. ASSEMBLY S/N: A18269					
4. INSPECTION INFORMATION			5. COMPLIANCE TIME			6. SIGNATURE ENTRY and COMPANY			
INSPECTION NUMBER	INSPECTION DESCRIPTION	REFERENCE DOCUMENT	MODULE	INTERVAL	NEXT DUE	DATE	AUTHORIZED SIGNATURE	CERTIFICATION TYPE & NUMBER	ORGANIZATION

GT-10049

*[Handwritten signatures]*

**SECTION 3 PART V ASSEMBLY MAINTENANCE RECORD**

1. ASSEMBLY NAME: COMPRESSOR ROTOR		2. ASSEMBLY PIN: 23073388		3. ASSEMBLY SIN: A18269	
4. COMPLIANCE INFORMATION					
DATE	DESCRIPTION OF MAINTENANCE ACTION	REFERENCE DOCUMENT	HOURS CYCLES	AUTHORIZED SIGNATURE CERTIFICATION TYPE & NUMBER	ORGANIZATION
16 DECEMBER 2005	Compressor Rotor was partially disassembled, inspected, repaired and assembled IAW EM CSP31010 Rev. 18 dated 15 October 2005.	RRB W/O 257593	10,666:45 12,777	DAC 7507-01	ROLLS-ROYCE BRASIL

GT-10050

DEFESA C. AERONAUTICA  
 FI: 326  
 Proc: 173981  
 Rub: *[Signature]*  
**CABW**

*[Signature]*  
 90 of 115  
*[Signature]*

**SECTION 3 PART V ASSEMBLY MAINTENANCE RECORD**

1. ASSEMBLY NAME: COMPRESSOR ROTOR 2. ASSEMBLY P/N: 89664600 2307388 2. ASSEMBLY S/N: A18269

4. COMPLIANCE INFORMATION

DATE	DESCRIPTION OF MAINTENANCE ACTION	REFERENCE DOCUMENT	HOURS		AUTHORIZED SIGNATURE	CERTIFICATION TYPE & NUMBER	ORGANIZATION
				CYCLES			

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# Service Bulletin Compliance

Engine Series: 3007A1

Engine Serial Number: 311096

Ship date: 11/19/98

SB Number Title Date Incorporated Published?

Module: Compressor Rotor

Module Serial Number: A18269

SB Number	Title	Date	Incorporated	Published?
3007A-72-019	New HPC Rotor & Case		Incorporated	Not Published
3007A-72-041	Compressor Inner Band	12/4/97	Incorporated	Published
3007A-72-065	Compressor Case Nuts		Incorporated	Not Published
3007A-72-082	New 11th Stage Compressor Wheel		Incorporated	Not Published
3007A-72-088	New 8th Stage Compressor Wheel		Incorporated	Not Published
3007A-72-097	New Center Sump Housing	08/13/98	Incorporated	Published
3007A-75-004	Torque Tube I-Beam Cross Section	1/26/98	Incorporated	Published
3007A-75-007	New Torque Tube Bolt		Incorporated	Not Published

The intent of the above Service Bulletins are incorporated into Engine Serial Number 311096 as of 11/19/98



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**SECTION 3 PART I** 33074700 **ASSEMBLY SERVICE RECORD**

1. ASSEMBLY NAME: HP TURBINE ROTOR		2. ASSEMBLY P/N: <del>23070084</del>				3. ASSEMBLY S/N: A70428			
4. MODULE IDENTIFICATION		5. ASSEMBLY INSTALLATION SECTION		6. ASSEMBLY REMOVAL SECTION		7. REMOVAL SECTION		REASON FOR REMOVAL	
NAME: ENGINE	PART NUMBER	MODULE TOTAL	HOURS	ASSEMBLY TOTAL	MODULE TOTAL	HOURS	ASSEMBLY TOTAL	HOURS	
	SERIAL NUMBER	HOURS	CYCLES		HOURS	CYCLES		HOURS	
				DATE			DATE		
	AE3007A1	0	0	19 NOV 1998	0	0	22 DEC 2001	5816	
	CAE311096	0	0						

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GT-10046



**SECTION 3 PART II** **LIFE LIMITED PARTS RECORD**

This record to remain with part listed.

2. PART NAME: **2ND STG HP TURBINE WHEEL**      3. PART NUMBER: **23069438**      4. SERIAL NUMBER: **MM183815**

5. ASSEMBLY IDENTIFICATION		6. PART INSTALLATION SECTION				7. PART REMOVAL SECTION			
		NAME: HPT ROTOR		PART TOTAL		ASSY TOTAL		PART TOTAL	
PART NUMBER	SERIAL NUMBER	DATE	HOURS	CYCLES	HOURS	CYCLES	DATE	HOURS	CYCLES
A70428	23074100	31 JAN 2002	5,891.6	0					
			7,266	0					

8. REMARKS

GT-10047



**SECTION 3 PART II LIFE LIMITED PARTS RECORD**

This record to remain with part listed.				
<b>2. PART NAME:</b> 1 <sup>st</sup> / 2 <sup>nd</sup> STAGE SPACER		<b>3. PART NUMBER:</b> 23072849		<b>4. SERIAL NUMBER:</b> TW244016
5. ASSEMBLY IDENTIFICATION				
NAME: HP TURBINE ROTOR				
PART NUMBER	ASSTOTAL HOURS CYCLES	DATE	PART TOTAL HOURS CYCLES	PART TOTAL HOURS CYCLES
SERIAL NUMBER				
23074700	5,891.6	31 JANUARY 2002	0.00	
A70428	7,266		0	
8. REMARKS				

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**SECTION 3 PART III ASSEMBLY MODIFICATION RECORD**

1. ASSEMBLY NAME: HP TURBINE ROTOR		2. ASSEMBLY PIN: 23074700		3. ASSEMBLY SIN: A70428			
4. MODIFICATION INFORMATION				5. COMPLIANCE TIME		6. SIGNATURE ENTRY and COMPANY	
BULLETIN OR DIRECTIVE NUMBER	ISSUE/REVISION DATE	SUBJECT OF BULLETIN OR DIRECTIVE	TYPE	INTERVAL ACCOMPLISHED	NEXT DUE	AUTHORIZED SIGNATURE CERTIFICATION TYPE & NUMBER	ORGANIZATION
SB AE3007A-72-260	REVISION 05 OCTOBER 24, 2005	ENGINE - NEW HIGH PRESSURE TURBINE UPGRADE ( BLOCK III )	ONE-TIME RECURRING	N/A	N/A	<i>[Signature]</i> DAC 7507-01	ROLLS-ROYCE BRASIL
SB AE3007A-A-72-265	REVISION 03 NOVEMBER 07, 2005	ENGINE - 1 <sup>st</sup> TO 2 <sup>nd</sup> - STAGE HIGH PRESSURE TURBINE SPACER INSPECTION	ONE-TIME RECURRING	N/A	N/A	<i>[Signature]</i> DAC 7507-01	ROLLS-ROYCE BRASIL
			ONE-TIME				
			RECURRING				
			ONE-TIME				
			RECURRING				
			ONE-TIME				
			RECURRING				
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			ONE-TIME				
			RECURRING				

GT-10048

*[Signature]*  
*[Signature]*  
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**SECTION 3 PART III ASSEMBLY MODIFICATION RECORD**

1. ASSEMBLY NAME: HP TURBINE ROTOR		2. ASSEMBLY PIN: 23070981		3. ASSEMBLY SN: A70428			
4. MODIFICATION INFORMATION							
BULLETIN OR DIRECTIVE NUMBER	ISSUE/REVISION DATE	SUBJECT OF BULLETIN OR DIRECTIVE	TYPE	5. COMPLIANCE TIME		6. SIGNATURE ENTRY and COMPANY	
				INTERVAL	NEXT DUE	AUTHORIZED SIGNATURE	ORGANIZATION
			ONE-TIME RECURRING				
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			ONE-TIME RECURRING				

GT-10048

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*[Signature]*  
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**SECTION 3 PART IV ASSEMBLY INSPECTION RECORD**

1. ASSEMBLY NAME: HP TURBINE ROTOR		2. ASSEMBLY PIN: 23070981			3. ASSEMBLY S/N: A70428				
4. INSPECTION INFORMATION		5. COMPLIANCE TIME			6. SIGNATURE ENTRY and COMPANY				
INSPECTION NUMBER	INSPECTION DESCRIPTION	REFERENCE DOCUMENT	MODULE	INTERVAL	NEXT DUE	DATE	AUTHORIZED SIGNATURE	CERTIFICATION TYPE & NUMBER	ORGANIZATION

GT-10049





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**SECTION 3 PART V ASSEMBLY MAINTENANCE RECORD**

1. ASSEMBLY NAME: HP TURBINE ROTOR		2. ASSEMBLY PIN: 23070981		3. ASSEMBLY SIN#: A70428	
4. COMPLIANCE INFORMATION					
DATE	DESCRIPTION OF MAINTENANCE ACTION	REFERENCE DOCUMENT	HOURS CYCLES	AUTHORIZED SIGNATURE CERTIFICATION TYPE & NUMBER	ORGANIZATION
16 DECEMBER 2006	HPT Rotor was partially disassembly, inspected repaired, and assembled IAW EM CSP31010 Rev. 18 dated 15 October 2005.	RRB W.O. # 257593	10,666:45 12,777	<i>[Signature]</i> DAC 7507-01	ROLLS-ROYCE BRASIL

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**SECTION 3 PART V ASSEMBLY MAINTENANCE RECORD**

1. ASSEMBLY NAME: HP TURBINE ROTOR		2. ASSEMBLY PIN: 23070981		3. ASSEMBLY SIN: A70428	
4. COMPLIANCE INFORMATION					
DATE	DESCRIPTION OF MAINTENANCE ACTION	REFERENCE DOCUMENT	HOURS CYCLES	5. SIGNATURE ENTRY and COMPANY	
				AUTHORIZED SIGNATURE	CERTIFICATION TYPE & NUMBER ORGANIZATION

GT-10080

**Service Bulletin Compliance**  
 Engine Series: 3007A1 Ship date: 11/19/98  
 Engine Serial Number: 311096

SB Number	Title	Date	Incorporated	Published?
3007A-HPT	HP Turbine Rotor		Incorporated	Not Published
	Module Serial Number: A70428			
	None Applicable			

The intent of the above Service Bulletins are incorporated into Engine Serial Number 311096 as of 11/19/98

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*[Signature]*

## SECTION 3 PART I ASSEMBLY SERVICE RECORD

1. ASSEMBLY NAME: LP TURBINE ROTOR			2. ASSEMBLY PIN: 23067890						3. ASSEMBLY S/N: A80446						
4. MODULE IDENTIFICATION			5. ASSEMBLY INSTALLATION SECTION				6. ASSEMBLY REMOVAL SECTION				ASSEMBLY TOTAL				
NAME: ENGINE			MODULE TOTAL		DATE	ASSEMBLY TOTAL		MODULE TOTAL		DATE	ASSEMBLY TOTAL		REASON FOR REMOVAL		
PART NUMBER	SERIAL NUMBER		HOURS	CYCLES		HOURS	CYCLES	HOURS	CYCLES		HOURS	CYCLES	HOURS	CYCLES	
	AE3007A1	17 DEC 1998	0	0	0	419.5	0	419.5	419.5	25 JAN 2002	0	0	419.5	419.5	<i>Conveniencia de ser instalado en CAE 311096</i>
	CAE311113	25 JAN 2002	0	0	0	5482	0	5482	5482	2002	0	0	5482	5482	
	AE3007A1	25 JAN 2002	419.5	5891.6	5891.6										
	CAE311096	2002	5482	7266	7266										
7. REMARKS															

GT-10046




# SECTION 3 PART II LIFE LIMITED PARTS RECORD

This record to remain with part listed.

2. PART NAME: **1ST STG LP TURB WHEEL**      3. PART NUMBER: **23060111**      4. SERIAL NUMBER: **WD89068**

5. ASSEMBLY IDENTIFICATION				6. PART INSTALLATION SECTION				7. PART REMOVAL SECTION				
NAME: LP TURBINE ROTOR				ASSY TOTAL		PART TOTAL		ASSY TOTAL		PART TOTAL		
PART NUMBER	SERIAL NUMBER	DATE	HOURS	CYCLES	HOURS	CYCLES	HOURS	CYCLES	HOURS	CYCLES	HOURS	CYCLES
23067890	A80446	17 DEC 1998	0	0								
8. REMARKS												

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# SECTION 3 PART II

# LIFE LIMITED PARTS RECORD

This record to remain with part listed.

2. PART NAME: **3RD STG LP TURB WHEEL**      3. PART NUMBER: **23070046**      4. SERIAL NUMBER: **WD88059**

5. ASSEMBLY IDENTIFICATION		6. PART INSTALLATION SECTION			7. PART REMOVAL SECTION		
		NAME: LP TURBINE ROTOR	ASSY TOTAL	PART TOTAL	ASSY TOTAL	PART TOTAL	
PART NUMBER	SERIAL NUMBER	DATE	HOURS	HOURS	HOURS	HOURS	
			CYCLES	CYCLES	CYCLES	CYCLES	
23067890		17 DEC 1998	0	0			
A80446			0	0			

8. REMARKS

GT-10047

DEFESA C. AERONAUTICA  
 FI: 342  
 Proc: 173981  
 Rub: *MB*  
 CABW


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**SECTION 3 PART II LIFE LIMITED PARTS RECORD**

This record to remain with part listed.											
2. PART NAME: LP TURB INTERSTG SPACER			3. PART NUMBER: 23054049			4. SERIAL NUMBER: TW13612					
5. ASSEMBLY IDENTIFICATION											
NAME: LP TURBINE ROTOR											
PART NUMBER											
SERIAL NUMBER											
23067890											
A80446											
6. PART INSTALLATION SECTION											
			ASSY TOTAL			PART TOTAL					
DATE			HOURS	CYCLES	HOURS	CYCLES	HOURS	CYCLES	HOURS	CYCLES	
17 DEC 1998			0	0	0	0	0	0	0	0	
7. PART REMOVAL SECTION											
			ASSY TOTAL			PART TOTAL					
DATE			HOURS	CYCLES	HOURS	CYCLES	HOURS	CYCLES	HOURS	CYCLES	
8. REMARKS											


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**SECTION 3 PART II** **LIFE LIMITED PARTS RECORD**

This record to remain with part listed.											
2. PART NAME: <b>LP TURB FORWARD SHAFT</b>				3. PART NUMBER: <b>23067076</b>				4. SERIAL NUMBER: <b>GV118706</b>			
5. ASSEMBLY IDENTIFICATION			6. PART INSTALLATION SECTION			7. PART REMOVAL SECTION			PART TOTAL		
NAME: LP TURBINE ROTOR											
PART NUMBER											
SERIAL NUMBER											
			DATE			DATE			HOURS		
23067890			17 DEC 1998						HOURS		
A80446									CYCLES		
									CYCLES		
8. REMARKS											

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**SECTION 3 PART III ASSEMBLY MODIFICATION RECORD**

1. ASSEMBLY NAME: LP TURBINE ROTOR      2. ASSEMBLY P/N: 23067890      3. ASSEMBLY S/N: A80446

4. MODIFICATION INFORMATION				5. COMPLIANCE TIME			6. SIGNATURE ENTRY and COMPANY	
BULLETIN OR DIRECTIVE NUMBER	ISSUE/REVISION DATE	SUBJECT OF BULLETIN OR DIRECTIVE	TYPE	INTERVAL ACCOMPLISHED	NEXT DUE	AUTHORIZED SIGNATURE	ORGANIZATION	
SB AE3007A-72-212	REVISIONS 03 MAY 17, 2004	ENGINE - INSPECTED THE LOW-PRESSURE TURBINE FORWARD SHAFT ( 23058694 AND 23067076 )	ONE-TIME RECURRING	N/A	N/A	<i>[Signature]</i>	ROLLS-ROYCE BRASIL	
			ONE-TIME RECURRING					
			ONE-TIME RECURRING					
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**SECTION 3 PART III ASSEMBLY MODIFICATION RECORD**

1. ASSEMBLY NAME: LP TURBINE ROTOR		2. ASSEMBLY P/N: 23067890		3. ASSEMBLY S/N: A80446			
4. MODIFICATION INFORMATION							
BULLETIN OR DIRECTIVE NUMBER	ISSUE/REVISION DATE	SUBJECT OF BULLETIN OR DIRECTIVE	TYPE	5. COMPLIANCE TIME		6. SIGNATURE ENTRY and COMPANY	
				INTERVAL	NEXT DUE	AUTHORIZED SIGNATURE	ORGANIZATION
			ONE-TIME				
			RECURRING				
			ONE-TIME				
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**Service Bulletin Compliance**

Engine Series: 3007A1  
Engine Serial Number: 311113

Ship date: 12/17/98

SB Number Title Date Incorporated Published?

Module: LP Turbine Rotor  
Module Serial Number: A80446  
3007A-72-011 New Low Pressure Turbine Forward Shaft 11/04/98 Incorporated Published  
3007A-72-094 New Rear Low Pressure Turbine Shaft Plu Incorporated Not Published

The intent of the above Service Bulletins are incorporated into Engine Serial Number 311113 as of 12/17/98



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[Signature]