 Direction générale de l'aviation civile France GSAC publication	AIRWORTHINESS DIRECTIVE No F-1997-199 R3		Distribution: B	Issue date: September 29, 2004	Page : 1/2
	This Airworthiness Directive is published by the DGAC on behalf of EASA, Airworthiness Authority of the State of Design for the affected product, part or appliance.		<i>Translation of « Consigne de Navigabilité » of same number. In case of difficulty, reference should be made to the French issue.</i>		
<p style="text-align: center;">No person may operate an aircraft to which an Airworthiness Directive applies, except in accordance with the requirements of that Airworthiness Directive, unless otherwise agreed with the Authority of the State of Registry.</p>					
Corresponding foreign Airworthiness Directive(s): Not applicable			Airworthiness Directive(s) replaced: 1997-199 R2		
Person in charge of airworthiness: CFM INTERNATIONAL			Type(s): CFM56-5C turbofan engines		
Type certificate(s) No. M17, M-IM28 TCDS No M17, M-IM28					
ATA chapter: 05, 72		Subject: Engine - Life limits			

1. EFFECTIVITY:

This Airworthiness Directive (AD) is applicable to CFM International CFM56-5C2/G, CFM56-5C3/G and CFM56-5C4 turbofan engines. These engines are installed on, but not limited to AIRBUS A340 series airplanes.

2. REASONS:


As a result of a refined life analysis performed by the manufacturer, original AD prompted a reduction of life limits indicated in the referenced Engine Shop Manual for the following parts.

Revision 1 takes into consideration the results of a second analysis allowing a life extension of the three (3) following parts:

- HPT disk PN 1498M43P04 is removed from this AD since the new life limit exceeds the original (pre-AD) 7,500 cycles limit.
- LPT stage 3 disks PN 337-001-602-0 and 337-001-605-0 installed on CFM56-5C2/G or CFM56-5C3/G are removed from this AD since the new life limit exceeds the original (pre-AD) 7,000 cycles limit.
- LPT stage 3 disks PN 337-001-602-0 and 337-001-605-0 installed on CFM56-5C4 were not affected by Revision 1 and were still limited to 7,000 cycles.

Revision 2 takes into consideration the results of a third analysis allowing a life extension of the three(3) following parts:

- LPT stage 3 disks PN 337-001-602-0 and 337-001-605-0 installed on CFM56-5C4 are removed from this AD since the new life limit exceeds the original (pre-AD) limit.
- Booster spool PN 337-005-210-0 is removed from this AD since the new life limit exceeds the original (pre-AD) limit.

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Revision 3 of this AD takes into account a life extension of HPT front shafts PN 1498M40P03, 1498M40P05 and 1498M40P06. These parts having a new life limit which exceeds the original (pre-AD) limit of 8,600 cycles are removed from this AD.

3. **MANDATORY ACTION AND COMPLIANCE TIME:**

From the effective date of this AD, the life limits are the following:

- HPT front air seals PN 1523M34P02 and 1523M34P03 are limited to 4,000 cycles.

4. **REFERENCE PUBLICATION:**

Manual CFMI-TP SM.8 Chapter 5.

5. **EFFECTIVE DATES:**

Original issue : September 06, 1997
Revision 1 : May 25, 2002
Revision 2 : September 27, 2003
Revision 3 : October 09, 2004

5. **REMARK:**

For questions concerning the technical contents of this AD's requirements, contact:

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7. **APPROVAL:**

This AD Revision is approved under EASA reference No 2004-9780 dated September 21, 2004.