



CIVIL AVIATION AUTHORITY
CZECH REPUBLIC
Airworthiness Division

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AIRWORTHINESS DIRECTIVE

Number: CAA-AD-064/2004

Date of issue: July 15, 2004

CFM INTERNATIONAL
CFM56-2C, -3, -5

ENGINE - FUEL PUMP - REPLACEMENT OF BEARING

Applicability: AIRBUS A310 and A300-600 aircraft fitted with PRATT & WHITNEY 4152 and 4158 engines on which AIRBUS production modification No. 10265 has not been embodied.

Effective date: September 02, 2004

Compliance: Required as indicated F-2004-095.

Remarks: The compliance of this AD must be recorded in Aircraft Logbook, where applicable the requirements of this AD must be integrated into Aircraft Technical Documentation. Address inquiries concerning this AD to: Civil Aviation Authority, Airworthiness Division, Ruzyně Airport, 160 08 Prague 6, Czech Republic, tel.: 420 233320922, fax: 420 220562270. This AD has been issued in accordance with F-2004-095, which is approved under EASA reference No. 2004-6371.

Ing. Pavel MATOUŠEK
Director

DGAC AD No.: F-2004-095

June 23, 2004

**CFM INTERNATIONAL
CFM56-2C, CMF56-3, CFM56-5 turbofan engines**

Type certificate(s) No.: M9, M-IM8, M15, M-IM19
TCDS No.: M9, M-IM8, M15, M-IM19
ATA chapter: 73

This AD is published by the DGAC on behalf of EASA, the Primary Airworthiness Authority for the affected product.

Engine fuel and control - Replacement of main fuel pumps equipped with solid bronze bearings with pumps equipped with bi-metal, aluminium/bronze bearings.

1. EFFECTIVITY:

This Airworthiness Directive (AD) applies to CFM INTERNATIONAL, CFM56-2C, CFM56-3 series and CFM56-5 series turbofan engines fitted with fuel pumps with solid bronze bearings.

These engines are installed on, but not limited to, AIRBUS A319 and A320, BOEING 737 and MCDONNELL DOUGLAS DC-8.

Spare engines and spare pumps are also affected.

2. REASONS:

Several failures of the main fuel pump solid bronze bearings caused fuel filter, then fuel manifold clogging leading, in some instances, to low pressure turbine case burn through.

3. MANDATORY ACTIONS AND COMPLIANCE TIMES:

Either at next engine shop visit, or at next main fuel pump replacement, or before January 1st, 2007, whichever occurs first, replace main fuel pumps equipped with solid bronze bearings with pumps equipped with bi-metal aluminium/bronze bearings in according with the Service Bulletins listed paragraph 4 below.

After the effective date of this AD, it is forbidden to install a main fuel pump with bronze bearings on the concerned engines.

Definition: An engine shop visit is defined as any maintenance that includes the separation of an engine casing flange.

4. REFERENCE PUBLICATIONS:

Service Bulletin (CFM56-2C) 73-0104 Revision 3 dated December 17, 2003
Service Bulletin (CFM56-3) 73-0120 Revision 5 dated December 17, 2003
Service Bulletin (CFM56-5A) 73-0126 Revision 4 dated December 17, 2003.

5. EFFECTIVE DATE:

July 03, 2004.

6. REMARK:

For any question concerning the technical content of this AD's requirements, contact:

CFM56 Airworthiness Engineer (W/YEN)

SNECMA Moteurs, site de Villaroche
1 rond point Rene RAVAUD,
77556 MOISSY-CRAMAYEL Cedex - France
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7. APPROVAL:

This AD is approved under EASA reference No 2004-6371 dated June 15, 2004.