



**United Kingdom
Civil Aviation Authority**

**AIRWORTHINESS
DIRECTIVE**

AD No: G-2003-0016

Issue Date: 18 December 2003

This AD is issued by the UK CAA acting for and on behalf of the European Aviation Safety Agency as the Primary Aviation Authority (ICAO Annex 8 Authority of State of Design) for the affected product(s).

Approved by the European Aviation Safety Agency under approval number 1866 on 17 December 2003.

In accordance with Article 9(7)(b) of the Air Navigation Order 2000 as amended the following action required by this Airworthiness Directive (AD) is mandatory for applicable aircraft registered in the United Kingdom.

No person may operate an aircraft to which an AD applies except in accordance with the requirements of that AD unless otherwise agreed with the Authority of the State of Registry.

Type Approval Holders Name:

Type/Model Designation(s):

ROLLS-ROYCE plc

RB211 TRENT 768-60, 772-60, 772B-60

Type Certificate Data Sheet No: 1050

Superseded/ Revised ADs: None

ATA 72 – ENGINE – IP TURBINE INSPECTION

Manufacturer(s): Rolls-Royce plc

Applicability: Models RB211 Trent 768-60, 772-60 and 772B-60 engines installed on Airbus A330 aeroplanes.

Reason: This Airworthiness Directive is raised following an incident involving a high energy uncontained multiple IP turbine blade release on a Trent 700 engine. Minor aircraft damage was caused by the blade release. The blade release was a result of an over speed of the IP turbine rotor that was initiated by an internal fire in the region of the HP/IP bearing chamber. Analysis of the flight data and hardware has found strong evidence that blockage of the HP/IP turbine bearing vent pipe due to oil coking is a significant factor in the failure sequence.

This Airworthiness Directive requires a one off inspection of the HP/IP turbine vent tube. Cleaning of the vent tube is instructed if carbon accumulation is found. This action mitigates the risk of further events within the fleet.

Effective Date: 3 January 2004

Compliance:

- 1 For engines on which the 05 module life has exceeded 10,000 hours since new or overhaul at the Effective Date of this Airworthiness Directive carry out the Action detailed below within 2 months of the Effective Date of this Airworthiness Directive.
- 2 For engines on which the 05 module life is equal to or less than 10,000 hours since new or overhaul at the Effective Date of this Airworthiness Directive carry out the Action detailed below within 3 months of the date at which 10,000 hours since new or overhaul of the 05 module is reached.

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Action: Inspect the HP/IP turbine vent tube in accordance with Rolls-Royce Alert Non Modification Service Bulletin RB211-72-AE302 (original or later approved issue) section 3 accomplishment instructions.

Reference Publications: Rolls-Royce Alert Non Mod Service Bulletin RB211-72-AE302 original or later approved issue may be obtained from Publication Services, Rolls-Royce plc. PO Box 31, Derby, DE24 8BJ, United Kingdom. Phone: +44 (0) 1332 242424, Fax: +44 (0) 1332 249936.

Remarks: Enquiries regarding this Airworthiness Directive may be directed to Civil Aviation Authority, Safety Regulation Group, Propulsion Department, Aviation House, Gatwick Airport South, West Sussex, RH6 0YR, United Kingdom. Phone: +44 (0) 1293 573199 Fax: +44 (0) 1293 573979 E-mail: tony.boud@smr.caa.co.uk.

For questions regarding the technical content of this Airworthiness Directive contact Rolls-Royce plc at the address shown above.

Note: This Airworthiness Directive was issued as an Emergency AD on 18 December 2003.

SUPERSEDED