

EASA	AIRWORTHINESS DIRECTIVE
	<p>AD No.: 2008-0042</p> <p>Date: 27 February 2008</p>
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.	
Type Approval Holder's Name: ROLLS-ROYCE PLC	Type/Model designations: RB211 Trent 500 Series Engines
TCDS Number: EASA E.060	
Foreign AD: Not applicable	
Supersedure: This Airworthiness Directive (AD) supersedes EASA AD No. 2007-0046 dated 22 February 2007.	
ATA 72	Engine – Intermediate Pressure Compressor (IPC) Drum – Identification / Replacement
Manufacturer:	Rolls-Royce plc
Applicability:	Models RB211 Trent 553-61, 556-61, 556B-61, 560-61, 553A2-61, 556A2-61, 556B2-61 and 560A2-61 engines, all serial numbers, if IPC Drum P/N FK30102 is installed. These engines are known to be installed on, but not limited to, Airbus A340-500 and A340-600 series aircraft.
Reason:	<p>Following the discovery of strain induced porosity in a Trent 500 IPC Drum forging, engineering assessment concluded that the problem was caused by the forging process and believed to be a batch related occurrence. Strain induced porosity in the dovetail posts of the stage 1 of the IPC drum could result, in the worst case, in an uncontained loss of 2 IPC stage 1 blades. Thus, the presence of strain induce porosity in the IPC Drums constitutes a potentially unsafe condition. Initially, only nine discs coming from the same batch were identified as affected by this problem. For those nine discs, EASA AD No. 2007-0046 was issued to require replacement prior to the originally published cyclic life.</p> <p>Further engineering analysis has concluded that it is necessary to reduce the cyclic lives of the other discs with the same part number.</p> <p>For the reasons described above, the present AD retains the requirements of AD 2007-0046, which is superseded, and adds the required replacement of all other IPC Drums with Part Number (P/N) FK30102 at a new life cycle limit.</p>
Effective Date:	12 March 2008

Compliance:	<p>(1) At the next engine overhaul, or before accumulating 2 910 Cycles Since New (CSN), whichever occurs first after 08 March 2007 [the effective date of AD 2007-0046], remove each IPC Drum P/N FK30102 with the following serial numbers:</p> <table border="1" data-bbox="571 309 1225 465"> <tr> <td>MW0134967</td> <td>MW0131219</td> <td>MW0156891</td> </tr> <tr> <td>MW0158192</td> <td>MW0164840</td> <td>MW0168864</td> </tr> <tr> <td>MW0168190</td> <td>MW0171399</td> <td>KHI00012</td> </tr> </table> <p>from the engine and replace with a serviceable drum in accordance with the instructions of Rolls-Royce Non Modification Service Bulletin (NMSB) RB211-72-AF258;</p> <p>(2) Before accumulating 5 830 CSN, remove each IPC Drum P/N FK30102 (with serial numbers other than those listed in paragraph (1) of this AD) from the engine and replace with a serviceable drum in accordance with the instructions of Rolls-Royce NMSB RB211-72-AF431;</p> <p>(3) After the effective date of this AD, no person shall install a spare IPC Drum P/N FK30102 on any engine, unless it has been verified not to have exceeded the new established life cycle limit as specified in Rolls-Royce NMSB RB211-72-AF258 and RB211-72-AF431, as applicable.</p>	MW0134967	MW0131219	MW0156891	MW0158192	MW0164840	MW0168864	MW0168190	MW0171399	KHI00012
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Ref. Publications:	<p>Rolls-Royce RB211 Propulsion System Non Modification Service Bulletin (NMSB) RB211-72-AF258 and RB211-72-AF431.</p> <p>The use of later approved revisions of these documents is acceptable for compliance with the requirements of this AD.</p>									
Remarks :	<ol style="list-style-type: none"> 1. If requested and appropriately substantiated, EASA can accept Alternative Methods of Compliance for this AD. 2. This AD has been published as PAD 08-012 on 29 January 2008 for consultation until 26 February 2008. No comments were received during the consultation period. 3. Enquiries regarding this AD should be referred to the AD Focal Point - Certification Directorate, EASA. E-mail: ADs@easa.europa.eu 4. For any questions concerning the technical content of the requirements in this AD, please contact: Rolls-Royce plc., P.O. Box 31, Derby, DE24 8BJ, United Kingdom; Telephone: +44 (0) 1332 242424, Fax: +44 (0) 1332 249936; Email: tech.help@rolls-royce.com or download the publication from https://www.aeromanager.com/ 									