


<b>EASA</b>	<b>NOTIFICATION OF A PROPOSAL TO ISSUE AN AIRWORTHINESS DIRECTIVE</b>
	<p><b>PAD No.: 14-101</b></p> <p><b>Date: 18 June 2014</b></p> <p>Note: This Proposed Airworthiness Directive (PAD) is issued by EASA, acting in accordance with Regulation (EC) No 216/2008 on behalf of the European Community, its Member States and of the European third countries that participate in the activities of EASA under Article 66 of that Regulation.</p>
<p>In accordance with the EASA Continuing Airworthiness Procedures, the Executive Director is proposing the issuance of an EASA Airworthiness Directive (AD), applicable to the aeronautical product(s) identified below. All interested persons may send their comments, referencing the PAD Number above, to the e-mail address specified in the 'Remarks' section, prior to the consultation closing date indicated.</p>	
<p><b>Design Approval Holder's Name:</b> ROLLS-ROYCE plc</p>	<p><b>Type/Model designation(s):</b> RB211 Trent 700 engines</p>
TCDS Number:	EASA.E.042
Foreign AD:	Not applicable
Supersedure:	None
<b>ATA 72</b>	<b>Engine – High / Intermediate Pressure Turbine Bearing Support Oil Feed Tube Sealing Sleeve – Inspection / Replacement</b>
Manufacturer(s):	Rolls-Royce plc (RR)
Applicability:	<p>RB211 Trent 768-60, 772-60, 772B-60 and 772C-60 engines, all serial numbers (s/n).</p> <p>These engines are known to be installed on, but not limited to, Airbus A330 aeroplanes.</p>
Reason:	<p>There have been nine occurrences of high oil consumption, caused by fracture of the High/Intermediate Pressure (HP/IP) turbine support internal oil feed tube Part Number (P/N) FW45909.</p> <p>The oil feed tube threaded end adaptor and sealing sleeve P/N FW15003 are designed to form a sliding joint which, if restrained, can compress the oil feed tube during thermal contraction of the turbine casing at the end of the flight cycle. On each subsequent flight, the thermal growth and contraction of the turbine casing relative to the oil tube, during the heating and cooling phases of the flight cycle, applies a load cycle to the tube, which may lead to low cycle fatigue fracture.</p> <p>This condition, if not detected and corrected, could lead to fire and overheating of the turbine discs and, consequently, an uncontained engine failure, possibly resulting in damage to the aeroplane and injury to occupants and/or persons on the ground.</p> <p>Investigation of the affected oil feed tube sealing sleeve P/N FW15003 has found that one of the three different suppliers of this part has manufactured some sealing sleeves with the internal diameter below the drawing minimum, which can cause binding at the sliding joint. Investigation of the supply history has identified a population of engines which have potentially been fitted with an</p>

	<p>affected sleeve during manufacture, or during Module 51 rework (check, repair or higher level work scope) between 1 July 2009 and 31 October 2013, which are identified in RR Non-Modification Service Bulletin (NMSB) RB.211-72-AH673.</p> <p>For the reasons described above, this AD requires a one-time inspection of the affected engines and removal from service of all affected P/N FW15003 oil feed tube sealing sleeves.</p>
Effective Date:	[TBD: 14 days after final AD issue date]
Required Action(s) and Compliance Time(s):	<p>Required as indicated, unless accomplished previously:</p> <p>Note: Where, in this AD, reference is made to an RR Mod, SB or NMSB with an 'A' (Alert) in the number, it should be recognised that an earlier or later revision may not have that 'A'. This kind of change does not effectively alter the publication references for the purpose of this AD.</p> <p>(1) For engines s/n up to 42330 inclusive, except s/n 42310, 42311, 42312, 42314 to 42317 inclusive, 42321 to 42327 inclusive, and 42329:</p> <p>Within 6 months after the effective date of this AD, inspect the P/N FW15003 oil feed tube sealing sleeve and, if it is determined that the oil feed tube sealing sleeve was manufactured by supplier A, as defined in RR NMSB RB211-72-AH673, <b>and</b> does not have the marking 102013, 112013 or 102013L, take a replicast and replace the affected oil feed tube sealing sleeve with a serviceable oil feed tube sealing sleeve in accordance with the instructions of RR NMSB RB211-72-AH673.</p> <p>(2) Within 30 days after taking the replicast, as required by paragraph (1) of this AD, send the replicast to RR in accordance with the instructions of RR NMSB RB211-72-AH673.</p> <p>(3) For all engines: From the effective date of this AD, it is allowed to install on any engine an oil feed tube sealing sleeve P/N FW15003 manufactured by supplier A (as defined in RR NMSB RB211-72-AH673), provided the part has the marking 102013, 112013 or 102013L.</p>
Ref. Publications:	<p>Rolls-Royce NMSB RB.211-72-H673 dated 30 January 2014, or Revision 1 dated 21 February 2014.</p> <p>The use of later approved revisions of this document is acceptable for compliance with the requirements of this AD.</p>
Remarks:	<ol style="list-style-type: none"> <li>1. This Proposed AD will be closed for consultation on 09 July 2014.</li> <li>2. Enquiries regarding this PAD should be referred to the Safety Information Section, Executive Directorate, EASA. E-mail: <a href="mailto:ADs@easa.europa.eu">ADs@easa.europa.eu</a>.</li> <li>3. For any question concerning the technical content of the requirements in this PAD, please contact your designated Rolls-Royce representative or download the publication from your Aeromanager account at <a href="http://www.aeromanager.com">www.aeromanager.com</a>.</li> </ol> <p>If you do not have a designated representative or Aeromanager account, please contact Corporate Communications at Rolls-Royce plc., P.O. Box 31, Derby, DE24 8BJ, United Kingdom, telephone: +44 (0) 1332 242424, or</p> <p>send an e-mail through <a href="http://www.rolls-royce.com/contact/civil_team.jsp">http://www.rolls-royce.com/contact/civil_team.jsp</a> identifying the correspondence as being related to <b>airworthiness directives</b>.</p>