



Notification of a Proposal to cancel an Airworthiness Directive

PAD No.: 23-047-CN

Issued: 17 April 2023

Note: This Proposed Airworthiness Directive (PAD) Cancellation Notice (CN)] is issued by EASA, acting in accordance with Regulation (EU) 2018/1139 on behalf of the European Union, its Member States and of the European third countries that participate in the activities of EASA under Article 129 of that Regulation.

In accordance with the EASA Continuing Airworthiness Procedures, the Executive Director is proposing the cancellation 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 date indicated.

Design Approval Holder's Name:

ROLLS-ROYCE DEUTSCHLAND Ltd & Co KG

Type/Model designation(s):

RB211 Trent 900 engines

Effective Date: [TBD - standard: same date as AD-CN issue date]

TCDS Number(s): EASA.E.012

Foreign AD: Not applicable

Cancellation: This Notice proposes to cancel EASA AD 2012-0260R1 dated 05 July 2013.

ATA 79 – CANCELLED – Engine Oil System – Fuel-to-Oil Heat Exchanger – Replacement [Time Between Overhaul]

Manufacturer(s):

Rolls-Royce plc

Applicability:

RB211 Trent 970-84, Trent 970B-84, Trent 972-84, Trent 972B-84, Trent 977-84, Trent 977B-84 and Trent 980-84 engines, all serial numbers.

These engines are known to be installed on, but not limited to, Airbus A380 aeroplanes.

Definitions:

For the purpose of this AD-CN, the following definitions apply:

Affected part: Fuel-to-Oil Heat Exchangers (FOHE), having Part Number 47111-1241.

Serviceable part: FOHE, having Part Number 47111-1245.



Reason:

During a revenue service flight, a Trent 900 engine experienced increased N2 intermediate pressure (IP) vibrations, followed by an engine surge. The pilot shut down the engine, the aeroplane carried out an air turn-back, and a 3-engine landing was successfully performed. Subsequent investigation results revealed the presence of oil by-pass seal material from the Fuel-to-Oil Heat Exchanger (FOHE) in the restrictor hole of the Tail Bearing Housing (TBH) cover plate. The blocked restrictor hole caused oil starvation to the low pressure (LP) and IP location bearings.

This condition, if not detected and corrected, could lead to LP location bearing damage, possibly resulting in uncontained engine failure and consequent damage to the aeroplane.

To correct this potential unsafe condition, EASA issued AD 2012-0260 (later revised) to require implementation of a time between overhaul (TBO), i.e. repetitive replacement of the affected FOHE with a new or overhauled FOHE unit. Subsequently, EASA AD 2012-0260R1 included reference to Rolls-Royce Service Bulletin (SB) RB.211-79-H282 which introduced a modified FOHE, defined as serviceable part in this PAD-CN. This new FOHE, introduced in the revised AD as optional terminating action for the repetitive FOHE replacements (TBO), reduced the risk of deterioration of the oil by-pass seal.

Since that revised AD was issued, it was determined that all affected engines have been modified to install a serviceable part, and affected parts are no longer available for (re)installation. Consequently, the unsafe condition as addressed by EASA AD 2012-0260R1 no longer exists and cannot develop anymore.

For the reasons described above, this Notice proposes to cancel EASA AD 2012-0260R1.

Required Action(s) and Compliance Time(s):

None.

Ref. Publications:

Rolls-Royce Trent 900 Alert Non-Modification SB RB.211-79-AH031 dated 25 October 2012, or Revision 1 dated 01 July 2013.

Rolls-Royce Trent 900 SB RB.211-79-H282 dated 28 March 2013, or Revision 1 dated 27 November 2013.

Remarks:

1. This Proposed AD-CN will be closed for consultation on 15 May 2023.
2. Enquiries regarding this PAD-CN should be referred to the EASA Safety Information Section, Certification Directorate. E-mail: ADs@easa.europa.eu.
3. For any question concerning the technical content of this PAD-CN, please contact your designated Rolls-Royce representative, or download the publication(s) from your Rolls-Royce Care account at <https://customers.rolls-royce.com>.



If you do not have a designated representative or Rolls-Royce Care account, please contact **Corporate Communications** at **Rolls-Royce plc**, P.O. Box 31, Derby, DE24 8BJ, United Kingdom
Telephone +44 (0)1332 242424,

or send an email through <https://www.rolls-royce.com/contact-us/civil-aerospace.aspx>
identifying the correspondence as being related to **Airworthiness Directives**.

