



Notification of a Proposal to issue an Airworthiness Directive

PAD No.: 23-144

Issued: 14 December 2023

Note: This Proposed Airworthiness Directive (PAD) 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 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 date indicated.

Design Approval Holder's Name:

ROLLS-ROYCE DEUTSCHLAND Ltd & Co KG

Type/Model designation(s):

Trent 7000 engines

Effective Date: [TBD - standard: 14 days after AD issue date]

TCDS Number(s): EASA.E.036

Foreign AD: Not applicable

Supersedure: None

ATA 79 – Engine Oil – Lubrication / Scavenge Oil Pumps – Installation Criteria

Manufacturer(s):

Rolls-Royce plc

Applicability:

Trent 7000-72 and Trent 7000-72C engines, all serial numbers.

These engines are known to be installed on, but not limited to, Airbus A330 (NEO) aeroplanes.

Definitions:

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

The NMSB: Rolls-Royce Alert Non-Modification Service Bulletin (NMSB) TRENT 1000 79-AK868 Revision 3. The NMSB has an 'A' (Alert) in the number, but an earlier or later revision may not have that 'A'. This kind of change does not effectively alter the publication references.

Affected part(s): Lubrication / scavenge oil pumps having Part Number (P/N) 31-75110-4013-5, P/N 31-75110-4016-5 or P/N 31-75110-1001-2.



Reason:

Occurrences have been reported of commanded engine in-flight shut-down (IFSD), prompted by low oil pressure indications. Investigation results showed that these events were due to early-life failure of the affected part internal eccentric ring / gerotor.

This condition, if not corrected, could lead to failure of an affected part, possibly resulting in engine IFSD or dual IFSD, with consequent reduced, or loss of, control of the aeroplane.

To address this potential unsafe condition, Rolls-Royce issued the NMSB to provide installation criteria for the affected parts.

For the reasons described above, this AD requires implementation of installation criteria as specified in the NMSB, to be accomplished each time an affected part is installed or reinstalled.

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

Required as indicated, unless accomplished previously:

Part(s) Installation:

- (1) From the effective date of this AD, it is allowed to install an affected part on any engine, or an engine equipped with an affected part on any aeroplane, provided that, prior to installation, it is determined that the installation criteria defined in the NMSB are met.
- (2) Reserved.

Ref. Publications:

Rolls-Royce Alert NMSB TRENT 1000 79-AK868 Revision 3 dated 11 December 2023.

The use of later approved revisions of the above-mentioned document is acceptable for compliance with the requirements of this AD.

Remarks:

1. This Proposed AD will be closed for consultation on 11 January 2024.
2. Enquiries regarding this PAD should be referred to the EASA Safety Information Section, Certification Directorate. E-mail: ADs@easa.europa.eu.
3. Information about any failures, malfunctions, defects or other occurrences, which may be similar to the unsafe condition addressed by this PAD, and which may occur, or have occurred on a product, part or appliance not affected by this PAD, can be reported to the [EU aviation safety reporting system](#). This may include reporting on the same or similar components, other than those covered by the design to which this PAD applies, if the same unsafe condition can exist or may develop on an aircraft with those components installed. Such components may be installed under an FAA Parts Manufacturer Approval (PMA), Supplemental Type Certificate (STC) or other modification.



4. 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 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**.

