

**DEPARTMENT OF TRANSPORTATION****Federal Aviation Administration****14 CFR Part 39**

[Docket No. FAA-2023-1490; Project Identifier MCAI-2022-01624-E; Amendment 39-22580; AD 2023-21-08]

RIN 2120-AA64

**Airworthiness Directives; Rolls-Royce Deutschland Ltd & Co KG Engines**

**AGENCY:** Federal Aviation Administration (FAA), DOT.

**ACTION:** Final rule.

**SUMMARY:** The FAA is superseding Airworthiness Directive (AD) 2021-21-13 for certain Rolls-Royce Deutschland Ltd & Co KG (RRD) Model Trent 1000 engines. AD 2021-21-13 required the operator to revise the airworthiness limitation section (ALS) of their existing approved aircraft maintenance program (AMP) by incorporating the revised tasks of the applicable time limits manual (TLM) for each affected model engine. Since the FAA issued AD 2021-21-13, the manufacturer has revised the TLM, introducing new and more restrictive instructions. This AD is prompted by the manufacturer revising the engine TLM life limits of certain critical rotating parts. This AD requires revisions to the ALS of the operator's existing approved AMP, as specified in a European Union Aviation Safety Agency (EASA) AD, which is incorporated by reference. The FAA is issuing this AD to address the unsafe condition on these products.

**DATES:** This AD is effective December 19, 2023.

The Director of the Federal Register approved the incorporation by reference of a certain publication listed in this AD as of December 19, 2023.

**ADDRESSES:**

**AD Docket:** You may examine the AD docket at *regulations.gov* under Docket No. FAA-2023-1490; or in person at Docket Operations between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays. The AD docket contains this final rule, the mandatory continuing airworthiness information (MCAI), any comments received, and other information. The address for Docket Operations is U.S. Department of Transportation, Docket Operations, M-30, West Building Ground Floor, Room W12-140, 1200 New Jersey Avenue SE, Washington, DC 20590.

**Material Incorporated by Reference:**

- For EASA service information identified in this final rule, contact EASA, Konrad-Adenauer-Ufer 3, 50668

Cologne, Germany; phone: +49 221 8999 000; email: *ADs@easa.europa.eu*; website: *easa.europa.eu*. You may find this material on the EASA website at *ad.easa.europa.eu*.

- You may view this service information at the FAA, Airworthiness Products Section, Operational Safety Branch, 1200 District Avenue, Burlington, MA 01803. For information on the availability of this material at the FAA, call (817) 222-5110. It is also available at *regulations.gov* under Docket No. FAA-2023-1490.

**FOR FURTHER INFORMATION CONTACT:**

Sungmo Cho, Aviation Safety Engineer, FAA, 2200 South 216th Street, Des Moines, WA 98198; phone: (781) 238-7241; email: *sungmo.d.cho@faa.gov*.

**SUPPLEMENTARY INFORMATION:****Background**

The FAA issued a notice of proposed rulemaking (NPRM) to amend 14 CFR part 39 to supersede AD 2021-21-13, Amendment 39-21773 (86 FR 64066, November 17, 2021), (AD 2021-21-13). AD 2021-21-13 applied to certain RRD Model Trent 1000 engines. AD 2021-21-13 required the operator to revise the ALS of their existing approved AMP by incorporating the revised tasks of the applicable TLM for each affected model engine. The FAA issued AD 2021-21-13 to prevent the failure of critical rotating parts.

The NPRM published in the **Federal Register** on July 14, 2023 (88 FR 45106). The NPRM was prompted by AD EASA AD 2022-0259, dated December 20, 2022 (EASA AD 2022-0259) (referred to after this as the MCAI), issued by EASA, which is the Technical Agent for the Member States of the European Union. The MCAI states that the manufacturer published a revised TLM introducing new or more restrictive tasks and limitations. These new or more restrictive tasks and limitations include updating declared lives of certain critical parts, updating direct accumulation counting data files, and updated inspections.

You may examine the MCAI in the AD docket at *regulations.gov* under Docket No. FAA-2023-1490.

In the NPRM, the FAA proposed to require revisions to the ALS of the operator's existing approved AMP.

**Discussion of Final Airworthiness Directive****Comments**

The FAA received one comment from The Boeing Company (Boeing). Boeing supported the NPRM without change.

**Conclusion**

These products have been approved by the aviation authority of another country and are approved for operation in the United States. Pursuant to the FAA's bilateral agreement with this State of Design Authority, it has notified the FAA of the unsafe condition described in the MCAI referenced above. The FAA reviewed the relevant data, considered the comments received, and determined that air safety requires adopting the AD as proposed. Accordingly, the FAA is issuing this AD to address the unsafe condition on these products. Except for minor editorial changes, this AD is adopted as proposed in the NPRM.

**Related Service Information Under 14 CFR Part 51**

The FAA reviewed EASA AD 2022-0259, which specifies instructions for accomplishing the actions specified in the applicable TLM, including performing maintenance tasks, replacing life-limited parts, and revising the existing approved maintenance or inspection program, as applicable, by incorporating the limitations, tasks, and associated thresholds and intervals described in the TLM. This material is reasonably available because the interested parties have access to it through their normal course of business or by the means identified in

**ADDRESSES.****Differences Between This AD and the MCAI**

Where EASA AD 2022-0259 defines the AMP as the Aircraft Maintenance Programme, which contains the tasks on the basis of which the scheduled maintenance is conducted to ensure the continuing airworthiness of each operated engine, this AD defines the AMP as the Aircraft Maintenance Program, which contains the tasks of which the operator or the owner ensures the continuing airworthiness of each operated airplane.

Where paragraph (3) of EASA AD 2022-0259 specifies revising the approved Aircraft Maintenance Programme within 12 months after the effective date of EASA AD 2022-0259, this AD requires revising the ALS of the existing approved maintenance or inspection program, as applicable, within 90 days after the effective date of this AD.

**Costs of Compliance**

The FAA estimates that this AD affects 28 engines installed on airplanes of U.S. registry.

The FAA estimates the following costs to comply with this AD:

ESTIMATED COSTS

Action	Labor cost	Parts cost	Cost per product	Cost on U.S. operators
Revise the ALS .....	1 work-hours × \$85 per hour = \$85 .....	\$0	\$85	\$2,380

**Authority for This Rulemaking**

Title 49 of the United States Code specifies the FAA’s authority to issue rules on aviation safety. Subtitle I, section 106, describes the authority of the FAA Administrator. Subtitle VII: Aviation Programs, describes in more detail the scope of the Agency’s authority.

The FAA is issuing this rulemaking under the authority described in Subtitle VII, Part A, Subpart III, Section 44701: General requirements. Under that section, Congress charges the FAA with promoting safe flight of civil aircraft in air commerce by prescribing regulations for practices, methods, and procedures the Administrator finds necessary for safety in air commerce. This regulation is within the scope of that authority because it addresses an unsafe condition that is likely to exist or develop on products identified in this rulemaking action.

**Regulatory Findings**

The FAA has determined that this AD will not have federalism implications under Executive Order 13132. This AD will not have a substantial direct effect on the States, on the relationship between the national government and the States, or on the distribution of power and responsibilities among the various levels of government.

For the reasons discussed above, I certify that this AD:

- (1) Is not a “significant regulatory action” under Executive Order 12866,
- (2) Will not affect intrastate aviation in Alaska, and
- (3) Will not have a significant economic impact, positive or negative, on a substantial number of small entities under the criteria of the Regulatory Flexibility Act.

**List of Subjects in 14 CFR Part 39**

Air transportation, Aircraft, Aviation safety, Incorporation by reference, Safety.

**The Amendment**

Accordingly, under the authority delegated to me by the Administrator, the FAA amends 14 CFR part 39 as follows:

**PART 39—AIRWORTHINESS DIRECTIVES**

■ 1. The authority citation for part 39 continues to read as follows:  
**Authority:** 49 U.S.C. 106(g), 40113, 44701.

**§ 39.13 [Amended]**

- 2. The FAA amends § 39.13 by:
  - a. Removing Airworthiness Directive 2021–21–13, Amendment 39–21773 (86 FR 64066, November 17, 2021); and
  - b. Adding the following new airworthiness directive:

**2023–21–08 Rolls-Royce Deutschland Ltd & Co KG:** Amendment 39–22580; Docket No. FAA–2023–1490; Project Identifier MCAI–2022–01624–E.

**(a) Effective Date**

This airworthiness directive (AD) is effective December 19, 2023.

**(b) Affected ADs**

This AD replaces AD 2021–21–13, Amendment 39–21773 (86 FR 64066, November 17, 2021).

**(c) Applicability**

This AD applies to Rolls-Royce Deutschland Ltd & Co KG (RRD) Model Trent 1000–A, Trent 1000–AE, Trent 1000–C, Trent 1000–CE, Trent 1000–D, Trent 1000–E, Trent 1000–G, and Trent 1000–H engines.

**(d) Subject**

Joint Aircraft System Component (JASC) Code 7200, Engine (Turbine/Turboprop).

**(e) Unsafe Condition**

This AD was prompted by the manufacturer revising the engine Time Limits Manual life limits of certain critical rotating parts. The FAA is issuing this AD to prevent the failure of critical rotating parts. The unsafe condition, if not addressed, could result in failure of critical rotating parts, which could result in failure of one or more engines, loss of thrust control, and loss of the airplane.

**(f) Compliance**

Comply with this AD within the compliance times specified, unless already done.

**(g) Required Actions**

Except as specified in paragraph (h) of this AD: Perform all required actions within the compliance times specified in, and in accordance with, European Union Aviation Safety Agency (EASA) AD 2022–0259, dated December 20, 2022 (EASA AD 2022–0259).

**(h) Exceptions to EASA AD 2022–0259**

(1) Where EASA AD 2022–0259 defines the AMP as the Aircraft Maintenance

Programme, which contains the tasks on the basis of which the scheduled maintenance is conducted to ensure the continuing airworthiness of each operated engine, this AD defines the AMP as the Aircraft Maintenance Program, which contains the tasks of which the operator or the owner ensures the continuing airworthiness of each operated airplane.

(2) Where EASA AD 2022–0259 refers to its effective date, this AD requires using the effective date of this AD.

(3) This AD does not require compliance with paragraph (1) of EASA AD 2022–0259.

(4) This AD does not require compliance with paragraph (2) of EASA AD 2022–0259.

(5) Where paragraph (3) of EASA AD 2022–0259 specifies revising the approved Aircraft Maintenance Programme within 12 months after the effective date of EASA AD 2022–0259, this AD requires revising the airworthiness limitations section of the existing approved maintenance or inspection program, as applicable, within 90 days after the effective date of this AD.

(6) This AD does not adopt the “Remarks” paragraph of EASA AD 2022–0259.

**(i) Provisions for Alternative Actions and Intervals**

After performing the actions required by paragraph (g) of this AD, no alternative actions and associated thresholds and intervals, including life limits, are allowed unless they are approved as specified in the provisions of the “Ref. Publications” section of EASA AD 2022–0259.

**(j) Alternative Methods of Compliance (AMOCs)**

The Manager, AIR–520 Continued Operational Safety Branch, FAA, has the authority to approve AMOCs for this AD, if requested using the procedures found in 14 CFR 39.19. In accordance with 14 CFR 39.19, send your request to your principal inspector or responsible Flight Standards Office, as appropriate. If sending information directly to the manager of the AIR–520 Continued Operational Safety Branch, send it to the attention of the person identified in paragraph (k) of this AD and email to: ANE-AD-AMOC@faa.gov. Before using any approved AMOC, notify your appropriate principal inspector, or lacking a principal inspector, the manager of the local flight standards district office/certificate holding district office.

**(k) Additional Information**

For more information about this AD, contact Sungmo Cho, Aviation Safety Engineer, FAA, 2200 South 216th Street, Des Moines, WA 98198; phone: (781) 238–7241; email: sungmo.d.cho@faa.gov.

**(I) Material Incorporated by Reference**

(1) The Director of the Federal Register approved the incorporation by reference of the service information listed in this paragraph under 5 U.S.C. 552(a) and 1 CFR part 51.

(2) You must use this service information as applicable to do the actions required by this AD, unless the AD specifies otherwise.

(i) European Union Aviation Safety Agency (EASA) AD 2022–0259, dated December 20, 2022.

(ii) [Reserved]

(3) For EASA AD 2022–0259, contact EASA, Konrad-Adenauer-Ufer 3, 50668 Cologne, Germany; phone: +49 221 8999 000; email: [ADs@easa.europa.eu](mailto:ADs@easa.europa.eu); website: [easa.europa.eu](http://easa.europa.eu). You may find this EASA AD on the EASA website at [ad.easa.europa.eu](http://ad.easa.europa.eu).

(4) You may view this service information at FAA, Airworthiness Products Section, Operational Safety Branch, 1200 District Avenue, Burlington, MA 01803. For information on the availability of this material at the FAA, call (817) 222–5110. This material may be found in the AD docket at [regulations.gov](http://regulations.gov) under Docket No. FAA–2023–1490.

(5) You may view this material at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, visit [www.archives.gov/federal-register/cfr/ibr-locations](http://www.archives.gov/federal-register/cfr/ibr-locations) or email [fr.inspection@nara.gov](mailto:fr.inspection@nara.gov).

Issued on October 20, 2023.

**Ross Landes,**

*Deputy Director for Regulatory Operations, Compliance & Airworthiness Division, Aircraft Certification Service.*

[FR Doc. 2023–25099 Filed 11–13–23; 8:45 am]

**BILLING CODE 4910–13–P**

**DEPARTMENT OF TRANSPORTATION****Federal Aviation Administration****14 CFR Part 39**

[Docket No. FAA–2023–2150; Project Identifier MCAI–2023–00188–R; Amendment 39–22603; AD 2023–23–01]

RIN 2120–AA64

**Airworthiness Directives; Airbus Helicopters**

**AGENCY:** Federal Aviation Administration (FAA), DOT.

**ACTION:** Final rule; request for comments.

**SUMMARY:** The FAA is superseding Airworthiness Directive (AD) 2022–01–05, which applied to certain Airbus Helicopters Model EC130T2 helicopters. AD 2022–01–05 required repetitive visual inspections of the rivets on the rear transmission shaft bearing support, inspections of the local structure, and rivet heads on the left-hand and right-hand sides of the rear transmission shaft

bearing support for cracking, missing, loose, or sheared rivets. AD 2022–01–05 also required reporting the results of those inspections and depending on the results, applicable corrective action. Since the FAA issued AD 2022–01–05, Airbus Helicopters revised its service information to add procedures to improve visual inspections of the rivets on the rear transmission shaft bearing support. This AD was prompted by the determination that certain modified helicopters may have finishing paint applied to the gutter, which could prevent detection of cracks during inspections. This AD also extends the repetitive compliance time interval for certain inspections. This AD continues to require certain actions in AD 2022–01–05 and requires a one-time visual inspection for paint in the gutter area, and removal of paint if necessary, as specified in a European Union Aviation Safety Agency (EASA) AD, which is incorporated by reference. The FAA is issuing this AD to address the unsafe condition on these products.

**DATES:** This AD is effective November 29, 2023.

The Director of the Federal Register approved the incorporation by reference of a certain publication listed in this AD as of November 29, 2023.

The FAA must receive comments on this AD by December 29, 2023.

**ADDRESSES:** You may send comments, using the procedures found in 14 CFR 11.43 and 11.45, by any of the following methods:

- *Federal eRulemaking Portal:* Go to [regulations.gov](http://regulations.gov). Follow the instructions for submitting comments.

- *Fax:* (202) 493–2251.

- *Mail:* U.S. Department of Transportation, Docket Operations, M–30, West Building Ground Floor, Room W12–140, 1200 New Jersey Avenue SE, Washington, DC 20590.

- *Hand Delivery:* Deliver to Mail address above between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays.

*AD Docket:* You may examine the AD docket at [regulations.gov](http://regulations.gov) under Docket No. FAA–2023–2150; or in person at Docket Operations between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays. The AD docket contains this final rule, the EASA AD, any comments received, and other information. The street address for Docket Operations is listed above.

*Material Incorporated by Reference:*

- For EASA material identified in this final rule, contact EASA, Konrad-Adenauer-Ufer 3, 50668 Cologne, Germany; telephone +49 221 8999 000; email [ADs@easa.europa.eu](mailto:ADs@easa.europa.eu); internet [www.easa.europa.eu](http://www.easa.europa.eu).

- You may view this material at the FAA, Office of the Regional Counsel, Southwest Region, 10101 Hillwood Pkwy., Room 6N–321, Fort Worth, TX 76177. For information on the availability of this material at the FAA, call (817) 222 5110. It is also available at [regulations.gov](http://regulations.gov) under Docket No. FAA–2023–2150.

*Other Related Service Information:*

For Airbus Helicopters service information identified in this final rule, contact Airbus Helicopters, 2701 North Forum Drive, Grand Prairie, TX 75052; phone (972) 641–0000 or (800) 232–0323; fax (972) 641–3775; or at [airbus.com/en/products-services/helicopters/hcare-services/airbusworld](http://airbus.com/en/products-services/helicopters/hcare-services/airbusworld). You may also view this service information at the FAA contact information under *Material Incorporated by Reference* above.

**FOR FURTHER INFORMATION CONTACT:** Dan McCully, Program Manager, International Validation Branch, FAA, 1600 Stewart Ave., Suite 410, Westbury, NY 11590; telephone (404) 474–5548; email [william.mccully@faa.gov](mailto:william.mccully@faa.gov).

**SUPPLEMENTARY INFORMATION:****Comments Invited**

The FAA invites you to send any written data, views, or arguments about this final rule. Send your comments to an address listed under **ADDRESSES**. Include “Docket No. FAA–2023–2150; Project Identifier MCAI–2023–00188–R” at the beginning of your comments. The most helpful comments reference a specific portion of the final rule, explain the reason for any recommended change, and include supporting data. The FAA will consider all comments received by the closing date and may amend this final rule because of those comments.

Except for Confidential Business Information (CBI) as described in the following paragraph, and other information as described in 14 CFR 11.35, the FAA will post all comments received, without change, to [regulations.gov](http://regulations.gov), including any personal information you provide. The agency will also post a report summarizing each substantive verbal contact received about this final rule.

**Confidential Business Information**

CBI is commercial or financial information that is both customarily and actually treated as private by its owner. Under the Freedom of Information Act (FOIA) (5 U.S.C. 552), CBI is exempt from public disclosure. If your comments responsive to this AD contain commercial or financial information that is customarily treated as private,