



EASA Certification Information

No.: 2021-03
Issued: 27 January 2021

Subject: Request from ROLLS-ROYCE DEUTSCHLAND Ltd & Co KG for partial surrender of the EASA Type Certificate No. EASA.E.060 affecting the Trent 556B-61, Trent 556B2-61 and Trent 560-61 engine model

Type Certificates No.: EASA.E.060

Affected product(s): Trent 556B-61, Trent 556B2-61 and Trent 560-61 engine models only

Issued by: EASA (European Union Aviation Safety Agency)

Type Certificate Holder: ROLLS-ROYCE DEUTSCHLAND Ltd & Co KG
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Germany
EASA DOA No.: EASA.21J.065

Background: On 18 January 2021 EASA has received from ROLLS-ROYCE DEUTSCHLAND Ltd & Co KG as current holder of the EASA Type Certificate No. EASA.E.060 for the RB211 Trent 500 Series Engines the request, dated 18 December 2020, to delete the RB211 Trent 556B-61, Trent 556B2-61 and Trent 560-61 engine models from the EASA Type Certificate No. EASA.E.060.

The RB211 Trent 556B-61 and 560-61 engine models were initially approved under CAA-UK Engine Type Certificate No. 100 dated 15 December 2000 and CAA-UK Type Certificate Data Sheet No. 1056.

The RB211 Trent 556B2-61 engine model was initially approved under CAA-UK Engine Type Certificate No. 100/1 dated 18 February 2003 and CAA-UK Type Certificate Data Sheet No. 1056.

The CAA-UK Engine Type Certificates No. 100 and No. 100/1 and related CAA-UK Engine Type Certificate Data Sheet No. 1056 has been superseded by the EASA Type Certificate and EASA Type Certificate Data Sheet No. EASA.E.060, currently at Issue 04, covering the RB211 Trent 556B-61, Trent 556B2-61 and Trent 560-61 engine models in addition to the RB211 Trent 553-61, Trent 556-61, Trent 553A2-61, Trent 556A2-61 and Trent 560B-61 engine models.



Rolls-Royce has informed EASA that the RB211 Trent 556B-61, Trent 556B2-61 and Trent 560-61 engine models were originally intended to be offered to aircraft operators to suit their operational requirements. However, the Airbus A340-500 and A340-600 aircraft series, which are the only application of the RB211 Trent 500 engine series, are not certificated for the RB211 Trent 556B-61, Trent 556B2-61 and Trent 560-61 engine models. Furthermore, no operators have ever requested or used these engine models.

EASA Aircraft Type Certificate EASA.A.015 Issue 25, dated 04 July 2019 only permits the following permutations:

- A340-642: Four (4) Rolls Royce RB211 Trent 556-61 or RB211 Trent 556A2-61 turbofan engines
- A340-643: Four (4) Rolls Royce RB211 Trent 560A2-61 turbofan engines
- A340-541: Four (4) Rolls Royce RB211 Trent 553-61 or RB211 Trent 553A2-61 turbofan engines
- A340-542: Four (4) Rolls Royce RB211 Trent 556A2-61 turbofan engines

With the RB 211 Trent 556B-61, Trent 556B2-61 and Trent 560-61 models stated on the Engine Type Certificate for the RB211 Trent 500 engine series, Rolls-Royce is, of course, obliged to perform technical assessments which consider the specific attributes of these models/ratings. However, due consideration of these three models/ratings extends the loading envelope for the Trent 500 engine type and creates additional analysis and assessment requirements that are otherwise unnecessary.

Rolls-Royce also informed EASA that at this stage in the lifecycle of the Airbus A340-500 and A340-600 aircraft series, future prospects for these aircraft types and their associated RB211 Trent 500 engines are limited and the flying fleet is in rapid decline. Rolls-Royce has informed Airbus of our intention to remove the RB211 Trent 556B-61, Trent 556B2-61 and Trent 560-61 models from the Engine Type Certificate. Airbus has acknowledged the intention and confirmed both that they do not oppose the removal and that there are no aircraft developments planned which may utilise any of these three models.

To ensure that the models removal from the Engine Type Certificate is robust, Rolls-Royce has investigated its inventory systems and confirmed that no components specific to the RB211 Trent 556B-61, Trent 556B2-61 and Trent 560-61 models have been supplied to operators or otherwise outside the company. The components which enable these models/ratings are limited to Data Entry Plugs (which connect to the Electronic Engine Controller (EEC)) and Data Plates (which formally identify the rating on the Engine Identification/Data Plates). All Rolls-Royce stock of these components has been identified, quarantined and is in the process of being scrapped. Hence ROLLS-ROYCE DEUTSCHLAND Ltd & Co KG's request to partially surrender the EASA Type Certificate and EASA Type Certificate Data Sheet No. EASA.E.060 affecting the Trent 556B-61, Trent 556B2-61 and Trent 560-61 engine models.

Technical instructions to enable conversion to the RB211 Trent 556B-61, Trent 556B2-61 and Trent 560-61 models is facilitated by Rolls-Royce Modification Bulletins 72-E204, 72-E943 and 72-E944 and the corresponding Service Bulletins RB211-SB72-E204, RB211-SB72-E943 and RB211-SB72-E944. In anticipation of



removal of the three models from the Engine Type Certificate, Rolls-Royce has revised the aforementioned Modification Bulletins and Service Bulletins to remove these three models, thus preventing conversion of engines to these models in the future.

Rolls-Royce has notified the only affected party, Airbus SAS, of the intention to remove the RB211 Trent 556B-61, Trent 556B2-61 and Trent 560-61 engine models from the RB211 Trent 500 Engine Series Type Certificate. Airbus has been informed that, subject to the request being accepted by EASA, Rolls-Royce will cease all technical and spares support for these models and will no longer assess product safety concerns for these three models/ratings. Airbus has also been informed that Rolls-Royce intent is to make the request to EASA in 2020, with subsequent Engine Type Certificate revision by EASA anticipated by early 2021.

Continuing Rolls-Royce support of all other RB211 Trent 500 engine models on Engine Type Certificate EASA.E.060 is unaffected by this request.

EASA hereby asks the recipients of this EASA Certification Information to communicate the aforementioned request to any natural or legal person to whom this surrender could be of direct and individual concern as well as to other interested persons.

When doing so, EASA also asks you to inform them about the possibility, **no later than 09 February 2021**, of commenting on the above.

After satisfactory evaluation of the surrender request, taking into account the comments received, if any, EASA may accept the request and take the decision to partially revoke the EASA Type Certificate no. EASA.E.060 in accordance with the applicable administrative procedures established by EASA¹.

As part of this process, EASA will amend and re-issue the EASA Type Certificate and EASA Type Certificate Data Sheet no. EASA.E.060 for the ROLLS-ROYCE DEUTSCHLAND Ltd & Co KG RB211 Trent 500 Series Engines with the updated list of valid certified engine models.

Contact: Any request, query or comment should be sent, **no later than 09 February 2021**, to:

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Deutschland

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¹ EASA procedure PR.TOC.00001 on Transfer or surrender of a product certificate (<http://easa.europa.eu/certification/internal-workingprocedures.php>)

