Deutsche Akkreditierungsstelle

Annex to the Partial Accreditation Certificate D-PL-21487-01-02 according to DIN EN ISO/IEC 17025:2018

Valid from: **28.09.2023**

Date of issue: 28.09.2023

This annex is a part of the accreditation certificate D-PL-21487-01-00.

Holder of partial accreditation certificate:

Bertrandt Powertrain Validation GmbH
Clemensänger-Ost 2, 85356 Freising

The testing laboratory meets the requirements of DIN EN ISO/IEC 17025:2018 to carry out the conformity assessment activities listed in this annex. The testing laboratory meets additional legal and normative requirements, if applicable, including those in relevant sectoral schemes, provided that these are explicitly confirmed below.

The management system requirements of DIN EN ISO/IEC 17025 are written in the language relevant to the operations of testing laboratories and confirm generally with the principles of DIN EN ISO 9001.

The testing laboratory is permitted, without being required to inform and obtain prior approval from DAkkS, to use standards or equivalent testing methods listed here with different issue dates.

The testing laboratory maintains a current list of all testing methods within the flexible scope of accreditation.

This certificate annex is only valid together with the written accreditation certificate and reflects the status as indicated by the date of issue. The current status of any given scope of accreditation can be found in the directory of accredited bodies maintained by Deutsche Akkreditierungsstelle GmbH at https://www.dakks.de.

Tests in the fields:

Tests in the test areas engine/pollutant emission of systems, components and separate technical units for motor vehicles and their trailers according to international test methods

Pollutant emission and consumption tests

40 CFR §1066 07-2021	Vehicle Testing Procedure *only:* *- Exhaust emission test procedures for FTP testing* *- Cold Temperature Test Procedure* *- Highway fuel economy test procedure* *- Exhaust emission test procedures for aggressive driving* *- Exhaust emission test procedure for SC03 emissions* *- AC17 air conditioning efficiency test procedure*
40 CFR §86 09-2021	Control of Emissions from New and In-Use Highway Vehicles and Engines *only:* *Subpart B: Emission Regulations for 1977 and Later Model Year New Light-Duty Vehicles and New Light-Duty Trucks and New Otto-Cycle Complete Heavy-Duty Vehicles; Test Procedures* *without: Tests for Evaporative Emissions*
SAE J1711 06-2010	Recommended Practice for Measuring the Exhaust Emissions and Fuel Economy of Hybrid-Electric Vehicles, Including Plug-in Hybrid Vehicles *only:* *- 4.3.1.4 UDDS Charge-Sustaining Test (CST) Procedure* *- 4.3.1.5 HFEDS Charge-Sustaining Test (CST) Procedure* *- 4.3.2.4 UDDS Full-Charge Test (FCT) Procedure* *- 4.3.2.5 HFEDS Full-Charge Test (FCT) Procedure*
SAE J1634 10-2012 *(Historical)*	Battery Electric Vehicle Energy Consumption and Range Test Procedure *only:* *- 7. Single-Cycle Range and Energy Consumption Test (SCT)* *- 8. Multi-Cycle Range and Energy Consumption Test (MCT)*
SAE J 1634 2021-04	Battery Electric Vehicle Energy Consumption and Range Test Procedure *only:* *- 7. Single-Cycle Range and Energy Consumption Test (SCT)* *- 8. Multi-Cycle Range and Energy Consumption Test (MCT)* *- 9. Short Multi –Cycle Range and Energy Consumption Test (SMCT)* *- 10. Short Multi-Cycle Range and Energy Consumption Test Plus Steady State (SMCT+)*

Abbreviations used:

CFR	Code of Federal Regulations
SAE	Society of Automotive Engineers