

Deutsche Akkreditierungsstelle GmbH

Annex to the Accreditation Certificate D-PL-14121-06-00 according to DIN EN ISO/IEC 17025:2018

Valid from: 18.11.2019

Date of issue: 18.11.2019

Holder of certificate:

BASF SE
Motorenprüfstand G-EVO/MI
Carl-Bosch-Str. 38, 67056 Ludwigshafen

Tests in the fields:

Testing of mineral oil and related products;
Engine test methods

The testing laboratory is permitted, without being required to inform and obtain prior approval from DAkkS, to use standards 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 document is a translation. The definitive version is the original German annex to the accreditation certificate.

Abbreviations used: see last page

*The certificate together with its annex reflects the status at the time of the date of issue. The current status of the scope of accreditation can be found in the database of accredited bodies of Deutsche Akkreditierungsstelle GmbH.
<https://www.dakks.de/en/content/accredited-bodies-dakks>*

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Engine test methods

| Test Method | Title | Process-Matrix-Number^{*)} |
|-----------------------------|--|---|
| CEC F-05-93 2014-09 | Inlet System Cleanliness Test with Mercedes Benz M 102 E Engine, Issue 12.1 | 5.3.129 |
| CEC F-16-96 2018-04 | Assessment of the Inlet Valve Sticking Tendency of Gasoline Fuels (The VW Waterboxer Gasoline Engine), Issue 5.9 | 5.3.130 |
| CEC F-20-98 2018-11 | Intake Valve Deposit Formation in Modern 4-Valve Gasoline Engine (Mercedes-Benz M 111 E 20 Engine), Issue 12.6 | 5.3.131 |
| CEC F-23-01 2018-07 | Procedure for Diesel Engine Injector Nozzle Coking Test (PSA XUD9A/L Engine), Issue 26 | 5.3.132 |
| CEC L-53-95 2009-01 | The Evaluation of Sludge Inhibition Qualities of Motor Oil in Gasoline Engines (Mercedes-Benz M 111 E 20 Engine), Issue 10.0 | - |
| CEC F-98-08 2019-01 | Direct Injection, Common Rail Diesel Engine Nozzle Coking Test (PSA DW10 Engine), Issue 11 | 5.3.133 |
| ASTM D 6201 2004 | Standard Test Method for Dynamometer Evaluation of Unleaded Spark-Ignition Engine Fuel for Intake Valve Deposit Formation | - |
| CEC F-110-16 2017-02 | Direct Injection, Common Rail Diesel Engine IDID Test (PSA DW10C Engine), Issue 3 | - |
| CEC TDG-L-107 2019-04 | M271EVO Sludge Test | - |
| CEC TDG-T-108-19 2019-04 | Pitting Test for Gear Lubricants, Issue 1 | - |
| CEC F-113 2019-03 | Test Development Group for injector fouling in a DISI engine | - |

-Translation-

Abbreviations used: see last page

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Abbreviations used:

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|--------------------|---|
| ASTM | American Society for Testing and Materials |
| CEC | Coordinating European Council |
| DISI | Direct spark ignition engines |
| TDG | Test Development Group within CEC |
| Verfahrensmatrix*) | Eigenschaftsnummer der Verfahrensmatrix Mineralöl (72 FB 005.26 Version 1.2, Stand: August 2017) |

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