DAkkS
Deutsche
Akkreditierungsstelle

Accreditation

The Deutsche Akkreditierungsstelle attests with this **Accreditation Certificate** that the testing laboratory

OELCHECK GmbH
Kerschelweg 28, 83098 Brannenburg

meets the requirements according to DIN EN ISO/IEC 17025:2018 for the conformity assessment activities listed in the annex to this certificate. This includes additional existing legal and normative requirements for the testing laboratory, including those in relevant sectoral schemes, provided they are explicitly confirmed in the annex to this certificate.

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.

This accreditation was issued in accordance with Art. 5 Para. 1 Sentence 2 of Regulation (EC) 765/2008, after an accreditation procedure was carried out in compliance with the minimum requirements of DIN EN ISO/IEC 17011 and on the basis of a review and decision of the appointed accreditation committees.

This accreditation certificate only applies in connection with the notices of 08.10.2020 with accreditation number D-PL-11057-01.
It consists of this cover sheet, the reverse side of the cover sheet and the following annex with a total of 12 pages.

Registration number of the accreditation certificate: **D-PL-11057-01-00**

Berlin, 07.08.2023 Dr.-Ing. Ernst Ulrich
Head of Technical Unit

Translation issued:
07.08.2023 Dr.-Ing. Ernst Ulrich
Head of Technical Unit

The certificate together with the annex 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 (www.dakks.de).

This document is a translation. The definitive version is the original German accreditation certificate.

See notes overleaf

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The Deutsche Akkreditierungsstelle GmbH (DAkkS) is the entrusted national accreditation body of the Federal Republic of Germany according to § 8 section 1 AkkStelleG in conjunction with § 1 section 1 AkkStelleGBV. DAkkS is designated as the national accreditation authority by Germany according to Art. 4 Para. 4 of Regulation (EC) 765/2008 and clause 4.7 of DIN EN ISO/IEC 17000.

Pursuant to Art. 11 section 2 of Regulation (EC) 765/2008, the accreditation certificate shall be recognised as equivalent by the national authorities within the scope of this Regulation as well as by the WTO member states that have committed themselves in bilateral or multilateral mutual agreements to recognise the certificates of accreditation bodies that are members of ILAC or IAF as equivalent.

DAkkS is a signatory to the multilateral agreements for mutual recognition of the European co-operation for Accreditation (EA), International Accreditation Forum (IAF) and International Laboratory Accreditation Co-operation (ILAC).

The up-to-date state of membership can be retrieved from the following websites:
EA: www.european-accreditation.org
ILAC: www.ilac.org
IAF: www.iaf.nu

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Annex to the Accreditation Certificate D-PL-11057-01-00 according to DIN EN ISO/IEC 17025:2018

Valid from: **08.10.2020**

Date of issue: 07.08.2023

Holder of accreditation certificate:

OELCHECK GmbH
Kerschelweg 28, 83098 Brannenburg

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.

Tests in the fields:

chemical and physical-chemical analysis of mineral oils and related products; Analysis of selected properties of engine oils, gear oils, aircraft engine oils with and without additives, ship engine oils; new and used transformer oils, new and used heat transfer fluids type Q, shock absorber fluids, turbine and governor oil type TD and TG, refrigeration oils and hydraulic oils

1. Engine Oils

Test Method	Title	Process-Matrix-Number[+)]
DIN 51399-1 2017-02	Testing of lubricants - Determination of elements content in additives, wear and other contaminations - Part 1: Direct determination by optical emission spectral analysis with inductively coupled plasma (ICP OES)	5.1.259
DIN 51451 2020-02	Testing of petroleum products and related products - Analysis by infrared spectrometry - General working principles	5.1.166
DIN 51453 2004-10	Testing of lubricants - Determination of oxidation and nitration of used motor oils - Infrared spectrometric method	5.1.264
DIN 51639-1 2014-11	Testing of lubricants - Test methods - Part 1: Determination of total base number	5.1.70
ASTM D664 2018-11	Standard Test Method for Acid Number of Petroleum Products by Potentiometric Titration	5.1.70
DIN 51757 2011-01	Testing of mineral oils and related materials - Determination of density *(Method 4)*	5.1.22
DIN EN ISO 12185 1997-11	Crude petroleum and petroleum products - Determination of density - Oscillating U-tube method	5.1.22
DIN 51659-3 2017-02	Lubricants - Test methods - Part 3: Determination of the kinematic viscosity of used lubricating oils by Houillon viscometer	
DIN EN ISO 2592 2018-01	Petroleum and related products - Determination of flash and fire points - Cleveland open cup method (ISO 2592:2017)	5.1.28
DIN 51408-2 2009-06	Testing of mineral oil hydrocarbons - Determination of chlorine content - Part 2: Microcoulometric determination, oxidation method	5.1.162

2. Gear Oils

Test Method	Title	Process-Matrix-Number[+)]
DIN 51399-1 2017-02	Testing of lubricants - Determination of elements content in additives, wear and other contaminations - Part 1: Direct determination by optical emission spectral analysis with inductively coupled plasma (ICP OES)	5.2.259
ASTM D664 2018-11	Standard Test Method for Acid Number of Petroleum Products by Potentiometric Titration	5.2.70
DIN ISO 9120 2005-08	Petroleum and related products - Determination of air-release properties of steam turbine and other oils - Impinger method	5.2.281
DIN 51757 2011-01	Testing of mineral oils and related materials - Determination of density *(Method 4)*	5.2.22
DIN EN ISO 12185 1997-11	Crude petroleum and petroleum products - Determination of density - Oscillating U-tube method	5.2.22
DIN 51659-3 2017-02	Lubricants - Test methods - Part 3: Determination of the kinematic viscosity of used lubricating oils by Houillon viscometer	
DIN EN ISO 2592 2018-01	Petroleum and related products - Determination of flash and fire points - Cleveland open cup method (ISO 2592:2017)	5.2.28
DIN 51408-2 2009-06	Testing of mineral oil hydrocarbons - Determination of chlorine content - Part 2: Microcoulometric determination, oxidation method	5.2.162

3. Aircraft Engine Oils with and without additives

Test Method	Title	Process-Matrix-Number[+)]
DIN 51659-3 2017-02	Lubricants - Test methods - Part 3: Determination of the kinematic viscosity of used lubricating oils by Houillon viscometer	
DIN EN ISO 2592 2018-01	Petroleum and related products - Determination of flash and fire points - Cleveland open cup method (ISO 2592:2017)	5.6.28

4. Ship Engine Oils

Test Method	Title	Process-Matrix-Number[+)]
DIN 51399-1 2017-02	Testing of lubricants - Determination of elements content in additives, wear and other contaminations - Part 1: Direct determination by optical emission spectral analysis with inductively coupled plasma (ICP OES)	5.8.259
DIN 51451 2020-02	Testing of petroleum products and related products - Analysis by infrared spectrometry - General working principles	5.8.166
DIN 51453 2004-10	Testing of lubricants - Determination of oxidation and nitration of used motor oils - Infrared spectrometric method	
DIN 51639-1 2014-11	Testing of lubricants - Test methods - Part 1: Determination of total base number	5.8.70
DIN 51757 2011-01	Testing of mineral oils and related materials - Determination of density *(Method 4)*	5.8.22
DIN EN ISO 12185 1997-11	Crude petroleum and petroleum products - Determination of density - Oscillating U-tube method	5.8.170
DIN 51659-3 2017-02	Lubricants - Test methods - Part 3: Determination of the kinematic viscosity of used lubricating oils by Houillon viscometer	
DIN EN ISO 2592 2018-01	Petroleum and related products - Determination of flash and fire points - Cleveland open cup method (ISO 2592:2017)	5.8.28

5. New and used Transformer Oils

Test Method	Title	Process-Matrix-Number[+)]
DIN 51757 2011-01	Testing of mineral oils and related materials - Determination of density *(Method 4)*	6.3.22
DIN EN ISO 12185 1997-11	Crude petroleum and petroleum products - Determination of density - Oscillating U-tube method	6.3.170
DIN EN 60156 1996-03	Insulating liquids - Determination of the breakdown voltage at power frequency - Test method	6.3.188
DIN 51659-3 2017-02	Lubricants - Test methods - Part 3: Determination of the kinematic viscosity of used lubricating oils by Houillon viscometer	

6. New and used Heat Transfer Oils, type Q

Test Method	Title	Process-Matrix-Number[+)]
DIN 51399-1 2017-02	Testing of lubricants - Determination of elements content in additives, wear and other contaminations - Part 1: Direct determination by optical emission spectral analysis with inductively coupled plasma (ICP OES)	
DIN 51757 2011-01	Testing of mineral oils and related materials - Determination of density *(Method 4)*	
DIN EN ISO 12185 1997-11	Crude petroleum and petroleum products - Determination of density - Oscillating U-tube method	
DIN 51659-3 2017-02	Lubricants - Test methods - Part 3: Determination of the kinematic viscosity of used lubricating oils by Houillon viscometer	
DIN 51408-2 2009-06	Testing of mineral oil hydrocarbons - Determination of chlorine content - Part 2: Microcoulometric determination, oxidation method	

7. Shock Absorber Fluids

Test Method	Title	Process-Matrix-Number[+)]
DIN 51757 2011-01	Testing of mineral oils and related materials - Determination of density *(Method 4)*	
DIN EN ISO 12185 1997-11	Crude petroleum and petroleum products - Determination of density - Oscillating U-tube method	
DIN 51659-3 2017-02	Lubricants - Test methods - Part 3: Determination of the kinematic viscosity of used lubricating oils by Houillon viscometer	
DIN EN ISO 2592 2018-01	Petroleum and related products - Determination of flash and fire points - Cleveland open cup method (ISO 2592:2017)	

8. Governor Oils, type TD, TG

Test Method	Title	Process-Matrix-Number[+)]
DIN ISO 9120 2005-08	Petroleum and related products - Determination of air-release properties of steam turbine and other oils - Impinger method	6.13.207
DIN 51757 2011-01	Testing of mineral oils and related materials - Determination of density *(Method 4)*	6.13.22
DIN EN ISO 12185 1997-11	Crude petroleum and petroleum products - Determination of density - Oscillating U-tube method	6.13.170
DIN 51659-3 2017-02	Lubricants - Test methods - Part 3: Determination of the kinematic viscosity of used lubricating oils by Houillon viscometer	
DIN EN ISO 2592 2018-01	Petroleum and related products - Determination of flash and fire points - Cleveland open cup method (ISO 2592:2017)	6.13.28

9. Refrigeration Oils

Test Method	Title	Process-Matrix-Number[+)]
DIN 51451 2020-02	Testing of petroleum products and related products - Analysis by infrared spectrometry - General working principles	6.14.166
DIN 51453 2004-10	Testing of lubricants - Determination of oxidation and nitration of used motor oils - Infrared spectrometric method	
DIN 51639-1 2014-11	Testing of lubricants - Test methods - Part 1: Determination of total base number	6.14.70
DIN 51659-3 2017-02	Lubricants - Test methods - Part 3: Determination of the kinematic viscosity of used lubricating oils by Houillon viscometer	
DIN EN ISO 2592 2018-01	Petroleum and related products - Determination of flash and fire points - Cleveland open cup method (ISO 2592:2017)	6.14.28

10. Hydraulic Oils

Test Method	Title	Process-Matrix-Number[+)]
DIN ISO 9120 2005-08	Petroleum and related products - Determination of air-release properties of steam turbine and other oils - Impinger method	6.16.205
DIN 51757 2011-01	Testing of mineral oils and related materials - Determination of density *(Method 4)*	6.16.22
DIN EN ISO 12185 1997-11	Crude petroleum and petroleum products - Determination of density - Oscillating U-tube method	6.16.170
DIN ISO 13357-2 2020-02	Petroleum products - Determination of the filterability of lubricating oils - Part 2: Procedure for dry oils	6.16.195
DIN 51659-3 2017-02	Lubricants - Test methods - Part 3: Determination of the kinematic viscosity of used lubricating oils by Houillon viscometer	

11. Lubricating Oils

Test Method	Title	Process-Matrix-Number[+)]
DIN 51399-1 2017-02	Testing of lubricants - Determination of elements content in additives, wear and other contaminations - Part 1: Direct determination by optical emission spectral analysis with inductively coupled plasma (ICP OES)	
DIN 51757 2011-01	Testing of mineral oils and related materials - Determination of density *(Method 4)*	6.15.22
DIN EN ISO 12185 1997-11	Crude petroleum and petroleum products - Determination of density - Oscillating U-tube method	6.15.170
DIN 51659-3 2017-02	Lubricants - Test methods - Part 3: Determination of the kinematic viscosity of used lubricating oils by Houillon viscometer	

Abbreviations used:

ASTM	American Society for Testing and Materials
DIN	Deutsches Institut für Normung e.V.
EN	European Standard
ICP	Inductively Coupled Plasma
ISO	International Organization for Standardization
Process-Matrix-Number[+)]	Number of the characteristics within the Process-Matrix for Mineral Oel, 72 FB 005.26 Version 1.2, August 2017