

## Deutsche Akkreditierungsstelle GmbH

**Entrusted according to Section 8 subsection 1 AkkStelleG in connection with Section 1 subsection 1 AkkStelleGBV**

Signatory to the Multilateral Agreements of EA, ILAC and IAF for Mutual Recognition

# Accreditation



The Deutsche Akkreditierungsstelle GmbH attests that the testing laboratory

**OELCHECK GmbH**

**Kerschelweg 28, 83098 Brannenburg**

is competent under the terms of DIN EN ISO/IEC 17025:2018 to carry out tests in the following 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**

The accreditation certificate shall only apply in connection with the notice of accreditation of 08.10.2020 with the accreditation number D-PL-11057-01. It comprises the cover sheet, the reverse side of the cover sheet and the following annex with a total of 12 pages.

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

Berlin,  
08.10.2020

Dr. Heike Manke  
Head of Division

Translation issued:  
08.10.2020



Head of Division

*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>

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

See notes overleaf.

Deutsche Akkreditierungsstelle GmbH

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: 08.10.2020

Holder of certificate:

**OELCHECK GmbH**  
**Kerschelweg 28, 83098 Brannenburg**

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**

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

*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>*

Abbreviations used: see last page

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**Annex to the accreditation certificate D-PL-11057-01-00**

**1. Engine Oils**

<b>Test Method</b>	<b>Title</b>	<b>Process-Matrix-Number<sup>1)</sup></b>
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 ( <i>Method 4</i> )	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

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**2. Gear Oils**

<b>Test Method</b>	<b>Title</b>	<b>Process-Matrix-Number<sup>1)</sup></b>
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 ( <i>Method 4</i> )	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

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**3. Aircraft Engine Oils with and without additives**

<b>Test Method</b>	<b>Title</b>	<b>Process-Matrix- Number<sup>1)</sup></b>
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

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**4. Ship Engine Oils**

<b>Test Method</b>	<b>Title</b>	<b>Process-Matrix-Number<sup>†</sup></b>
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 ( <i>Method 4</i> )	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

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**5. New and used Transformer Oils**

<b>Test Method</b>	<b>Title</b>	<b>Process-Matrix-Number<sup>+</sup></b>
DIN 51757 2011-01	Testing of mineral oils and related materials - Determination of density ( <i>Method 4</i> )	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 <sup>1)</sup>
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 ( <i>Method 4</i> )	
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	



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**7. Shock Absorber Fluids**

<b>Test Method</b>	<b>Title</b>	<b>Process-Matrix- Number<sup>†</sup></b>
DIN 51757 2011-01	Testing of mineral oils and related materials - Determination of density ( <i>Method 4</i> )	
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)	

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**8. Governor Oils, type TD, TG**

<b>Test Method</b>	<b>Title</b>	<b>Process-Matrix-Number<sup>†</sup></b>
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 ( <i>Method 4</i> )	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

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**9. Refrigeration Oils**

<b>Test Method</b>	<b>Title</b>	<b>Process-Matrix-Number<sup>†)</sup></b>
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**

<b>Test Method</b>	<b>Title</b>	<b>Process-Matrix-Number<sup>†</sup></b>
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 ( <i>Method 4</i> )	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	

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**11. Lubricating Oils**

<b>Test Method</b>	<b>Title</b>	<b>Process-Matrix-Number<sup>†</sup></b>
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 ( <i>Method 4</i> )	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 <sup>†</sup>	Number of the characteristics within the Process-Matrix for Mineral Oil, 72 FB 005.26 Version 1.2, August 2017

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**1. Engine Oils**

<b>Test Method</b>	<b>Title</b>	<b>Process-Matrix-Number<sup>1)</sup></b>
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 ( <i>Method 4</i> )	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

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**2. Gear Oils**

<b>Test Method</b>	<b>Title</b>	<b>Process-Matrix-Number<sup>1)</sup></b>
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 ( <i>Method 4</i> )	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



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**3. Aircraft Engine Oils with and without additives**

<b>Test Method</b>	<b>Title</b>	<b>Process-Matrix-Number<sup>1)</sup></b>
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

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**4. Ship Engine Oils**

<b>Test Method</b>	<b>Title</b>	<b>Process-Matrix-Number<sup>†</sup></b>
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 ( <i>Method 4</i> )	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

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**5. New and used Transformer Oils**

<b>Test Method</b>	<b>Title</b>	<b>Process-Matrix-Number<sup>+</sup></b>
DIN 51757 2011-01	Testing of mineral oils and related materials - Determination of density ( <i>Method 4</i> )	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	

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6. New and used Heat Transfer Oils, type Q

Test Method	Title	Process-Matrix-Number <sup>1)</sup>
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 ( <i>Method 4</i> )	
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	

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**7. Shock Absorber Fluids**

<b>Test Method</b>	<b>Title</b>	<b>Process-Matrix- Number<sup>†</sup></b>
DIN 51757 2011-01	Testing of mineral oils and related materials - Determination of density ( <i>Method 4</i> )	
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)	

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**8. Governor Oils, type TD, TG**

<b>Test Method</b>	<b>Title</b>	<b>Process-Matrix-Number<sup>†</sup></b>
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 ( <i>Method 4</i> )	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

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**9. Refrigeration Oils**

<b>Test Method</b>	<b>Title</b>	<b>Process-Matrix-Number<sup>†)</sup></b>
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**

<b>Test Method</b>	<b>Title</b>	<b>Process-Matrix-Number<sup>†</sup></b>
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 ( <i>Method 4</i> )	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	



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**11. Lubricating Oils**

<b>Test Method</b>	<b>Title</b>	<b>Process-Matrix-Number<sup>†</sup></b>
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 ( <i>Method 4</i> )	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 <sup>†</sup>	Number of the characteristics within the Process-Matrix for Mineral Oil, 72 FB 005.26 Version 1.2, August 2017