

# Deutsche Akkreditierungsstelle

# Annex to the Accreditation Certificate D-PL-18751-01-00 according to DIN EN ISO/IEC 17025:2018

**Valid from: 23.06.2023**Date of issue: 23.06.2023

Holder of accreditation certificate:

Ravensberger Schmierstoffvertrieb GmbH Jöllenbecker Straße 2, 33824 Werther

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.

chemical and physical-chemical testing of mineral oil and related products, selected characteristics of lubricating oils e.g. engine oils, automotive gear oils and hydraulic oils

Within the given test fields the testing laboratory is permitted, without being required to inform and obtain prior approval from DAkkS, the following: usage of different versions of standard test methods aranted here.

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.

Abbreviations used: see last page Page 1 of 4



#### Annex to the Accreditation Certificate D-PL-18751-01-00

## 1. Engine oils

Test Method	Title	Process- Matrix- Number
DIN 51562-1 1999-01	Viscometry - Determination of kinematic viscosity using the Ubbelohde viscometer - Apparatus and measurementprocedure	5.1.54
ASTM D 5293 2017	Standard Test Method for Apparent Viscosity of Engine Oils and Base Stocks Between -10°C and -35°C Using Cold-Cranking Simulator	5.1.173
DIN ISO 2909 2004-08	Petroleum products - Calculation of viscosity index from kinematic viscosity	5.1.171
DIN ISO 3016 2017-11	Petroleum oils - determination of pour point	5.1.79
ASTM D 2896 2015	Standard Test Method for Base Number of Petroleum Products by Potentiometric Perchloric Acid Titration	
DIN ISO 2049 2001-06	Petroleum products - Determination of colour (ASTM scale)	5.1.26
DIN EN ISO 12185 1997-11	Crude petroleum and petroleum products - Determination of density - Oscillating U-tube method	5.1.22
DIN 51451 2004-09	Testing of petroleum products and related products - Analysis by infrared spectrometry - General working principles	5.1.166
ASTM D 5800a 2015	Standard Test Method for Evaporation Loss of Lubricating Oils by the Noack Method	

Valid from: 23.06.2023 Date of issue: 23.06.2023



#### Annex to the Accreditation Certificate D-PL-18751-01-00

## 2. Automotive gear oil

Test Method	Title	Process- Matrix- Number
DIN 51562-1 1999-01	Viscometry - Determination of kinematic viscosity using the Ubbelohde viscometer - Apparatus and measurement procedure	5.2.54
ASTM D 5800a 2015	Standard Test Method for Evaporation Loss of Lubricating Oils by the Noack Method	
DIN ISO 2909 2004-08	Petroleum products - Calculation of viscosity index from kinematic viscosity	5.2.171
DIN ISO 3016 2017-11	Petroleum oils - determination of pour point	5.2.79
DIN ISO 2049 2001-06	Petroleum products - Determination of colour (ASTM scale)	5.2.26
DIN EN ISO 12185 1997-11	Crude petroleum and petroleum products - Determination of density - Oscillating U-tube method	5.2.22
ASTM D 2896 2015	Standard Test Method for Base Number of Petroleum Products by Potentiometric Perchloric Acid Titration	
DIN 51451 2004-09	Testing of petroleum products and related products - Analysis by infrared spectrometry - General working principle	<b>5.2.166</b>

Valid from: 23.06.2023 Date of issue: 23.06.2023



#### Annex to the Accreditation Certificate D-PL-18751-01-00

#### 3. Hydraulic oil (HL, HLP, HVLP)

Test Method	Title	Process- Matrix- Number
DIN 51562-1 1999-01	Viscometry - Determination of kinematic viscosity using the Ubbelohde viscometer - Apparatus and measurement procedure	6.16.117
DIN EN ISO 12185 1997-11	Crude petroleum and petroleum products - Determination of density - Oscillating U-tube method	6.16.170
ASTM D 5800a 2015	Standard Test Method for Evaporation Loss of Lubricating Oils by the Noack Method	
DIN ISO 3016 2017-11	Petroleum oils - determination of pour point	6.16.79
DIN 51451 2004-09	Testing of petroleum products and related products - Analysis by infrared spectrometry - General working principles	6.16.166
DIN ISO 2049 2001-06	Petroleum products - Determination of colour (ASTM scale)	6.16.26

#### Abbreviations used:

ASTM American Society for Testing and Materials DIN Deutsches Institut für Normung e.V.

EN European Standard

IEC International Electrotechnical Commission
ISO International Organization for Standardization

for Mineral Oel (FO-Antrag GB\_Mineralöl.xlsx, Vers. 1.1, 23.03.2022)

Valid from: 23.06.2023 Date of issue: 23.06.2023