

# Product Information

## AVENO Universal UHPD 10W-40

0002-000103



### Description

AVENO Universal UHPD 10W-40 is a universal engine oil on a basis of selected base oils combined with the latest additives for all diesel engines with or without turbocharging in lorries, buses and machinery. AVENO Universal UHPD 10W-40 was developed as a UHPD (Ultra High Performance Diesel) engine oil with specific requirements on the diesel particulate filter for LOW SAPS technology. Low sulphur, phosphorus and ash content.

### Instructions for use

AVENO Universal UHPD 10W-40 is a high-performance engine oil suitable for year-round use. It was designed for the new exhaust emission guidelines including for vehicles with exhaust gas recirculation systems. Universal UHPD 10W-40 is universally applicable in all diesel engines with and without turbocharging. Suitable for EURO I, II, III, IV, V and EURO VI engines.

### Quality classification

#### Specification

- ACEA E6/E7/E9
- API CI-4
- JASO DH-2

#### Approval

- API CI-4
- Deutz DQC IV-18 LA
- DTFR 15C110 (228.51)
- Mack EO-N
- MTU Typ 3.1
- Renault VI RLD-2
- VOLVO VDS-3

### Recommendation

- Caterpillar ECF-2
- Cummins CES 20076/20077/20078
- DAF HP-2
- MAN M 3477
- MAN M 3271-1, MAN M 3277
- Renault VI RXD/RGD
- Scania Low Ash

### Properties

- Excellent oxidation stability
- Efficiency due to low fuel consumption
- Excellent cold starting performance
- Neutrality towards sealants
- High wear protection
- Very good high-temperature stability
- Excellent detergent and dispersant properties
- A fast engine lubrication even at low temperatures
- Very good viscosity and temperature behavior

### Technical specifications

Properties	Data	Unit	Testing under
Kinematic Viscosity at 40°C	98,0	mm <sup>2</sup> /s	DIN 51659-2:2017-02
Kinematic Viscosity at 100°C	14,6	mm <sup>2</sup> /s	DIN 51659-2:2017-02
Viscosity Index	154		DIN ISO 2909:2004-08
Appearance	YELLOWBROWN		VISUELL
Viscosity CCS at -25°C	6400	mpa*s	ASTM D 5293:2020
Density at 15°C	860	kg/m <sup>3</sup>	DIN EN ISO 12185:1997-11
Pour Point	-39	°C	ASTM D 7346:2015
Total Base Number (TBN)	9,8	mgkoh/g	ASTM D 2896:2015