

# Product Information

## AVENO Low SAPS HD Premium 10W-40

0002-000351



### Description

AVENO Low SAPS HD Premium 10W-40 is a fully synthetic, economic, long-life engine oil for commercial vehicles with a turbo diesel engine. AVENO Low SAPS HD Premium 10W-40 is characterized by an increased oxidation stability and shear stability as well as an improved air separation capacity to meet and exceed the most up-to-date requirements according to API CK-4. AVENO Low SAPS HD Premium 10W-40 was specifically developed for the newest generation of Euro IV, V and VI diesel engines with exhaust gas treatment and particulate filters. Extended oil change intervals as per manufacturer's instructions.

### Instructions for use

AVENO Low SAPS HD Premium 10W-40 meets, and in some cases, surpasses, the requirements of a multitude of global industrial and manufacturer specifications. AVENO Low SAPS HD Premium 10W-40 is suitable in particular for use in mixed vehicle fleets with Euro 2, 3, 4, 5 and 6 engines and therefore offers the optimal solution for reducing the number of products required. The operating instructions of the engine manufacturers must be observed.

### Quality classification

#### Specification

- API CK-4/SN
- ACEA E6/E7/E8/E9/E11
- JASO DH-2

#### Approval

- API CK-4
- Mack EOS-4.5
- Deutz DQC IV-18 LA
- Renault VI RLD-3
- DTFR 15C110 (228.51)
- VOLVO VDS-4.5
- MAN M 3775

#### Recommendation

- Caterpillar ECF-3
- IVECO 18-1804 CLASSE TLS E9
- Cummins CES 20086/20081
- MAN M 3271-1 / 3477
- DAF Extended Drain
- MTU Typ 3.1
- DDC 93K222, DDC 93K218
- Scania Low Ash Level
- DTFR 15C100 (228.31), MB 228.52

### Properties

- A very stable, excellent viscosity behavior, and high shear stability
- Fuel savings in all operating conditions
- Very good detergent and dispersing properties
- Maintains the effectiveness of exhaust treatment systems on a long term basis
- Low evaporation, thus low oil consumption
- Extended oil change intervals protect natural resources
- Excellent cold starting properties
- May be used in many commercial vehicles as well as in vehicles without diesel particulate filters
- Low SAPS = low sulphated ash, phosphorous and sulphur

### Technical specifications

Properties	Data	Unit	Testing under
Kinematic Viscosity at 40°C	93.8	mm <sup>2</sup> /s	DIN 51659-2:2017-02
Kinematic Viscosity at 100°C	14.5	mm <sup>2</sup> /s	DIN 51659-2:2017-02
Viscosity Index	161		DIN ISO 2909:2004-08
Appearance	BROWN		VISUELL
Viscosity CCS at -25°C	5000	mPa*s	ASTM D 5293:2020
Density at 15°C	859	kg/m <sup>3</sup>	DIN EN ISO 12185:1997-11
Pour Point	-39	°C	ASTM D 7346:2015
Total Base Number (TBN)	9.1	mgKOH/g	ASTM D 2896:2015