

# Product Information

## AVENO SHPD 20W-50

0002-000083



### Description

AVENO SHPD 20W-50 is a multi-grade engine oil on the basis of selected additives. It can be used in petrol and diesel engines including turbo versions. AVENO SHPD 20W-50 meets the requirements of SAE class 20W-50. A good lubrication film is guaranteed, even at high temperatures.

### Instructions for use

AVENO SHPD 20W-50 is especially suitable for engines with already high mileages. The operating instructions of the automobile and engine manufacturer must be observed.

### Quality classification

#### Specification

- API CI-4
- API SL/CF
- Global DHD-1
- ACEA A3/B4
- ACEA E7
- JASO DH-1

#### Recommendation

- Allison C-4
- Caterpillar ECF-1a/ECF-2
- DDC 93K215
- DTFR 15B110 (228.3), MB 229.1

### Properties

- High oxidation stability
- Ideal for difficult operating conditions
- Good shear stability
- Suitable for catalytic converters
- A very stable and excellent viscosity-temperature behavior
- High safety margin even in boundary lubrication
- Excellent cold starting properties
- Reduction of black sludge formation

### Technical specifications

Properties	Data	Unit	Testing under
Kinematic Viscosity at 40°C	168,4	mm <sup>2</sup> /s	DIN 51659-2:2017-02
Kinematic Viscosity at 100°C	18,5	mm <sup>2</sup> /s	DIN 51659-2:2017-02
Viscosity Index	124		DIN ISO 2909:2004-08
Appearance	YELLOWBROWN		VISUELL
Viscosity CCS at -15°C	8164	mpa*s	ASTM D 5293:2020
Density at 15°C	891	kg/m <sup>3</sup>	DIN EN ISO 12185:1997-11
Pour Point	-33	°C	ASTM D 7346:2015
Total Base Number (TBN)	11,0	mgkoh/g	ASTM D 2896:2015