## Product Information

## **AVENO Mineral Super HD 15W-40**

0002-000004



DIN EN ISO 12185:1997-11

ASTM D 7346:2015

ASTM D 2896:2015

## Description

AVENO Mineral Super HD 15W-40 is a mineral multi-grade engine oil for petrol and diesel car engines with or without turbocharging and commercial vehicle engines. Facilitates extended oil change intervals as per manufacturer's instructions. AVENO Mineral Super HD 15W-40 is characterized by its good cold starting properties, minimization of fuel consumption, friction and wear. With AVENO Mineral Super HD 15W-40, a reliable and heavy-duty engine oil has been developed.

## Instructions for use

Density at 15°C

Pour Point Total base number 872

-39

8.7

AVENO Mineral Super HD 15W-40 is an engine oil for year-round use, and is suitable for petrol and diesel car engines and commercial vehicle engines. Can also be used in the commercial vehicle sector for difficult operation and extended oil-change intervals (up to 45,000 km or 500 operating hours are possible) in accordance with manufacturer's instructions. AVENO Mineral Super HD 15W-40 can be used in engines with the specifications indicated. The operating instructions of the automobile and engine manufacturer must be observed.

Quality classification				
Specification				
• API CG-4/SF		• ACEA A3/B3		
• API SL/CF		• ACEA E2		
• MIL-L-2104 E				
Approval				
• API SL				
Recommendation				
• Allison C-4		• MAN 271	• MAN 271	
• Caterpillar TO-2		• MTU Type 2		
• Deutz DQC I-02		Volvo VDS		
Mack EO-L		• VW 501 01/VW 505 00		
• MAN M 3275-1		• ZF TE-ML 07C		
• MB 229.1				
Properties				
<ul> <li>Good cold starting properties, even at low temperatures</li> </ul>		A stable and excellent viscosity	A stable and excellent viscosity behavior	
<ul> <li>Good detergent and dispersing properties</li> </ul>		<ul> <li>Neutrality towards sealants</li> </ul>	Neutrality towards sealants	
<ul> <li>Extensive protection against wear, corrosion and foaming</li> </ul>		<ul> <li>Suitable for catalytic converters</li> </ul>	Suitable for catalytic converters	
<ul> <li>A very good shear stability</li> </ul>		<ul> <li>Prevention of black sludge form</li> </ul>	<ul> <li>Prevention of black sludge formation</li> </ul>	
• A high oxidation stability				
Technical specifications				
Properties	Data	Unit	Testing under	
Kinematic viscosity at 40°C	105.7	mm²/s	DIN 51659-2:2017-02	
Kinematic viscosity at 100°C	14.3	mm²/s	DIN 51659-2:2017-02	
Viscosity index	138		DIN ISO 2909:2004-08	
Appearance	YELLOW		VISUELL	

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kg/m³

mgKOH/g

°C

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