



# ENGINE OIL HDL

## 15W-40

### Product Description:

**Engine Oil HDL 15W-40** is a high performance universal diesel engine oil designed for high loaded diesel engines in light- and heavy commercial vehicles working under heavy operating conditions through the whole year for use in Euro I, Euro II, Euro III, Euro IV and Euro V engines. This product is not suitable for vehicles equipped with particulate filters.

**Engine Oil HDL 15W-40** is formulated with high refined solvent mineral base stock in combination with a special additive package to reach the following properties:

- Excellent thermal- and oxidation stability.
- Very good dispersancy and detergency.
- High anti-foam, anti-wear and anti-corrosion properties.
- Excellent protection against Bore Polishing.
- Not suitable for engine equipped with a Diesel Particulate Filter (DPF).

**ENGINE OIL HDL 15W-40** exceeds the following performance criteria:

<b>API CH-4</b>	<b>API SJ</b>	<b>ACEA E7</b>	<b>Volvo VDS-3</b>
<b>Renault RLD-2</b>	<b>Deutz DQC-III</b>	<b>MTU type 2</b>	<b>Cat ECF-1a</b>
<b>Cummins CES 20077</b>	<b>MAN M 3275</b>	<b>MB 228.1</b>	<b>Mack EO-N</b>
<b>DTFR 15B110</b>			
<b>(MB 228.3)</b>			



Property	Unit	Test Method	Typical Value
SAE Grade		SAE J300	15W-40
Density@15°C	kg/m <sup>3</sup>	ASTM D4052	885.4
Kin. Viscosity @40°C	mm <sup>2</sup> /s	ASTM D7042	104.7
Kin. Viscosity @100°C	mm <sup>2</sup> /s	ASTM D7042	14.3
Viscosity Index		ASTM D2270	139
Viscosity CCS @-20°C	cP	ASTM D5293	6200
Flash Point COC	°C	ASTM D92	>201
Pour Point	°C	ASTM D7346	-30
Total Base Number	mgKOH/g	ASTM D2896	11
Sulphated Ash	%Wt	ASTM D874	1.26

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