



**Product Data Sheet**

**ENGINE OIL HDX EXTRA 15W-40**

**Product Description:**

**ENGINE OIL HDX 15W-40** is an extra high performance, high TBN, universal engine oil designed for high loaded diesel engines in light- and heavy commercial vehicles working under severe operating conditions through the whole year for use in Euro-3, Euro-4 and Euro-5 engines equipped with EGR and/or SCR. This product is not suitable for vehicles equipped with DPF filters.

**ENGINE OIL HDX 15W-40** is formulated with high refined solvent mineral stock in combination with a special additive package to reach the following properties:

- Excellent thermal- and oxidation stability.
- Extra protection against high sulphur fuels
- Very good dispersancy and detergency.
- High anti-foam, anti-wear and anti-corrosion properties.
- Excellent protection against Bore Polishing.
- Extended drain intervals.

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

MB 228.3	MAN M 3275	Volvo VDS-3	MACK EO-N
API CI-4	ACEA E7	Renault RLD-2	Global DHD-1
JASO DH-1	Allison C4	MTU Type 2	Mack EO-M+
DAF HP-2	Cummins CES 2077/20078		API SL
CAT ECF-2	DDC 93K215		

Property	Unit	Test Method	Typical Value
<b>SAE Grade</b>		<b>SAE J3000</b>	<b>15W-40</b>
<b>Density@15°C</b>	kg/m <sup>3</sup>	<b>ASTM D4052</b>	<b>889</b>
<b>Kin. Viscosity @40°C</b>	mm <sup>2</sup> /s	<b>ASTM D7042</b>	<b>103</b>
<b>Kin. Viscosity @100°C</b>	mm <sup>2</sup> /s	<b>ASTM D7042</b>	<b>14.5</b>
<b>Viscosity Index</b>		<b>ASTM D2270</b>	<b>141</b>
<b>Viscosity CCS @-20°C, max</b>	cP	<b>ASTM D2270</b>	<b>6500</b>
<b>Flash Point COC</b>	°C	<b>ASTM D92</b>	<b>&gt;230</b>
<b>Pour Point</b>	°C	<b>ASTM D7346</b>	<b>-27</b>
<b>Total Base Number</b>	mgKOH/g	<b>ASTM D2896</b>	<b>16.2</b>
<b>Sulphated Ash</b>	%Wt	<b>ASTM D874</b>	<b>1.5</b>

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