



# ENGINE OIL HDX

## 10W-40

### Product Description:

**Engine Oil HDX 10W-40** is a extra high performance universal semi synthetic 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 10W-40** is formulated with high refined solvent mineral and synthetic 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.
- Extended drain intervals.

**ENGINE OIL HDX 10W-40** exceeds the following performance criteria:

<b>Approved</b>	<b>Mack EO-N</b> <b>DTFR 15B110 (MB 228.3)</b>	<b>Volvo VDS-3</b>	<b>Renault RLD-2</b>
<b>Exceeds</b>	<b>API CI-4</b> <b>ACEA E7</b> <b>Caterpillar ECF-1a, ECF-2</b> <b>MB 229.1H</b> <b>Cummins CES 20077/20078</b> <b>Mack EO-M+</b>	<b>API SL</b> <b>ACEA A3/B4</b> <b>Global DHD-1</b> <b>MTU Type 2</b> <b>Voith retarder B</b>	<b>DDC 93K215</b> <b>Deutz DQC-III-10</b> <b>JASO DH-1</b> <b>MAN M 3275</b> <b>Allison TES-439</b>
<b>Pending</b>	<b>MB 235.28</b>		



Property	Unit	Test Method	Typical Value
SAE Grade		SAE J300	10W-40
Density@15°C	kg/m <sup>3</sup>	ASTM D4052	869.2
Kin. Viscosity @40°C	mm <sup>2</sup> /s	ASTM D7042	98.9
Kin. Viscosity @100°C	mm <sup>2</sup> /s	ASTM D7042	14.5
Viscosity Index		ASTM D2270	151
Viscosity CCS @-25°C	cP	ASTM D2270	6450
Flash Point COC	°C	ASTM D92	230
Pour Point	°C	ASTM D7346	-33
Total Base Number	mgKOH/g	ASTM D2896	11.6
Sulphated Ash	%Wt	ASTM D874	1.5

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