



## Engine Oil HDX 20W-50

Product Code: 78210

Heavy Duty Diesel Engine Oil

**Engine Oil HDX 20W-50** is an extra high performance 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 20W-50** 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.
- Extended drain intervals possible.

**Engine Oil HDX 20W-50** meets the following performance criteria:

API CI-4	API SL	ACEA E7	JASO DH-1
MAN M 3275	Volvo VDS-3	Deutz DQC-III	MTU Type 2
Mack EO-N	Cummins CES 20077/20078	Caterpillar ECF-1a	Renault RLD-2
DDC 93K215	DTRF 15B110 (MB 228.3)	Caterpillar ECF-2	Global DHD-1

### Typical Analysis

Properties	Unit	Method	Typical Value
SAE Grade		SAE J300	20W-50
Density @15°C	kg/m <sup>3</sup>	ASTM D4052	888.6
Kin. Viscosity @40°C	mm <sup>2</sup> /s	ASTM D7042	160.9
Kin. Viscosity @100°C	mm <sup>2</sup> /s	ASTM D7042	18.8
Viscosity Index		ASTM D2270	132
Viscosity CCS @-15°C	cP	ASTM D5293	6780
Flash Point COC	°C	ASTM D92	>201
Pour Point	°C	ASTM D7346	-30
Total Base Number	mgKOH/g	ASTM D2896	11.2
Sulphated Ash	%Wt	ASTM D874	1.5

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