

## TIDAL POWER HDX 20W-50

### Mineral Heavy Duty Diesel Engine oil

**TIDAL POWER 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 a Diesel Particulate Filter (DPF).

**TIDAL POWER 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.

**TIDAL POWER HDX 20W-50** meets the following performance criteria:

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

### Typical Analysis

Properties	Unit	Method	Typical Value
SAE Grade		SAE J300	20W-50
Density @15°C	kg/m <sup>3</sup>	ASTM 4052	890
Kinematic Viscosity @ 40°C	mm <sup>2</sup> /s	ASTM D7042	138.3
Kinematic Viscosity @ 100°C	mm <sup>2</sup> /s	ASTM D7042	17.7
Viscosity Index		ASTM D2270	141
Viscosity CCS @ -15°C, max.	cP	ASTM D5293	9500
Flash Point COC	°C	ASTM D92	>201
Pour Point	°C	ASTM D7346	-24
Total Base Number	mgKOH/g	ASTM D2896	12.2
Sulphated Ash	%Wt	ASTM D874	1.5
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