

## TIDAL POWER HDX 15W-40

### Mineral Heavy Duty Diesel Engine oil

**TIDAL POWER HDX 15W-40** 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 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.
- Extended drain intervals.

**TIDAL POWER HDX 15W-40** meets the following performance criteria:

<b>Approved</b>	MB-approval 228.3	Volvo VDS-3	MACK EO-N	Renault RLD-2
<b>Meets</b>	API CI-4/ SL JASO DH-1 CAT ECF-1a Cummins CES 20077, 20078	ACEA E7 Deutz DQC-III CAT ECF-2	DDC 93K215 MTU Type 2 MAN M 3275	Global DHD-1 MB 228.1

### Typical Analysis

Properties	Unit	Method	Typical Value
SAE Grade		SAE J300	15W-40
Density @15 °C	kg/m <sup>3</sup>	ASTM 4052	880
Kinematic Viscosity @ 40 °C	mm <sup>2</sup> /s	ASTM D7042	102
Kinematic Viscosity @ 100 °C	mm <sup>2</sup> /s	ASTM D7042	14.1
Viscosity Index		ASTM D2270	140
Viscosity CCS @ -20 °C, max.	cP	ASTM D5293	7000
Flash Point COC	°C	ASTM D92	>201
Pour Point	°C	ASTM D7346	-37
Total Base Number	mgKOH/g	ASTM D2896	11.4
Sulphated Ash	%Wt	ASTM D874	1.5
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