



MARINE MGEO SHPD

15W-40

Product Description:

MARINE MGEO SHPD 15W-40 is a fuel saving MID SAPS super high performance universal oil based on 100% synthetic technology designed for high loaded high-speed marine diesel engines working under severe operating conditions through the whole year. MARINE MGEO SHPD 15W-40 is recommended for engines equipped with a Diesel Particulate Filter (DPF), EGR and/or SCR after treatment systems typically present on IMO Tier II and/or Euro Stage V engines.

MARINE MGEO SHPD 15W-40 is formulated with high refined base stock in combination with an unique 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.
- Complies with strictest European and IMO emission regulation.

MARINE MGEO SHPD 15W-40 exceeds the following performance criteria:

Meets	Volvo VDS 4.5	Mack EOS-4.5	Renault RLD-3
	API CK-4	MTU Type 3.1	Cummins CES 20086
	MAN M3775	CAT ECF-3	Deutz DQC III-18-LA
	DDC93K222	JASO DH-2	ACEA E6/E7/E11
	DTFR 15C100 (MB 228.31)		

Property	Unit	Test Method	Typical Value
SAE Grade		SAE J300	15W-40
Density@15°C	kg/m ³	ASTM D4052	875.3
Kin. Viscosity @40°C	mm ² /s	ASTM D7042	118.3
Kin. Viscosity @100°C	mm ² /s	ASTM D7042	15.2
Viscosity Index		ASTM D2270	133
Viscosity CCS @-20°C	cP	ASTM D5293	6200
Flash Point COC	°C	ASTM D92	>201
Pour Point	°C	ASTM D7346	-30
Total Base Number	mgKOH/g	ASTM D2896	10.1
Sulphated Ash	%Wt	ASTM D874	1.00

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