



## Marine Oil MGSP 15W-40

Product Code: 77490

Marine Diesel Engine Oil

**Marine Oil MGSP 15W-40** is an extra high performance, high TBN, universal engine oil designed for modern turbocharged and naturally aspirated marine diesel engines operating on distillate diesel fuel. Suitable for use in engines equipped with EGR and/or SCR. This product is not suitable for engines equipped with DPF filters.

**Marine Oil MGSP 15W-40** is formulated with high refined solvent mineral stock in combination with a special additive package to reach the following properties:

- Extra protection against fluctuating (distillate) fuel quality
- 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.

**Marine Oil MGSP 15W-40** meets the following performance criteria:

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

### Typical Analysis

Properties	Unit	Method	Typical Value
SAE Grade		SAE J300	15W-40
Density @15°C	kg/m <sup>3</sup>	ASTM D4052	871
Kin. Viscosity @40°C	mm <sup>2</sup> /s	ASTM D7042	101
Kin. Viscosity @100°C	mm <sup>2</sup> /s	ASTM D7042	14.2
Viscosity Index		ASTM D2270	145
Viscosity CCS @-20°	cP	ASTM D5293	4320
Flash Point COC	°C	ASTM D92	>201
Pour Point	°C	ASTM D7346	-36
Total Base Number	mgKOH/g	ASTM D2896	17.0
Sulphated Ash	%Wt	ASTM D874	2.2

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