



# Delo® 1000 Marine

## Medium-speed engine oils

Product Data Sheet

### Product description

Delo 1000 Marine is a high-performance, medium-alkaline, diesel engine oil for medium- and high-speed trunk piston diesel engines. Delo 1000 Marine is blended from high-quality base oils and selected additives that protect the oil from oxidation and provide excellent detergency and dispersancy. It has extremely good viscosity control, and its excellent alkalinity retention properties prevent corrosive wear over long periods of time. The oil also has good water separation and antifoam properties. Delo 1000 Marine meets the requirements of API service classification CF.

### Recommended Uses

Delo 1000 Marine 30 and 40 are recommended for all types of trunk piston engines, including the latest high-output, medium-speed engines using high sulphur gas oil or marine diesel oil with a maximum sulphur level of 1.5%. The FZG (A/8.3/90) failure load stage 11 permits its use in engine reduction gears and other applications where EP properties are required. Delo 1000 Marine is approved by the major builders of trunk piston engines.

### Performance Benefits

#### Wear Protection

- Protects against corrosive combustion products and minimizes wear on all moving engine components.
- Provides excellent protection for cams, camshaft and bearings.

#### Detergent/Dispersant Properties

- Keeps crankcases and oil control rings clean. Reduces deposit formation particularly in the ring belt area and reduces lube oil filter blockage.
- Effectively handles insolubles.

#### Oxidation Stability

- Oxidation inhibitors protect the oil against high thermal stresses, protect engine parts from corrosion and reduce undercrown deposits while promoting extended lubricant life.

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### Rust Prevention

- Prevents corrosion of engine parts when the engine is not in operation.
- Provides excellent rust protection as required in stern tube application.

### Balanced Additive Combination

- Provides minimum maintenance and downtime, long engine life and economical operating costs.

## Typical test data

DELO 1000 MARINE	RESULTS	
TEST	RESULTS	
SAE Viscosity Grade	30	40
Product Code	560010	560011
Base number, mg KOH/g	12	12
Density, 15 °C, kg/l	0.89	0.90
Flash Point COC, °C	240	240
FZG test (A/8.3/90) failure load stage	11	11
Pour Point, °C	-18	-18
Sulphated Ash, %mass	1.6	1.6
Viscosity Kinematic		
- at 40 °C, mm <sup>2</sup> /s (cSt)	94	135
- at 100 °C, mm <sup>2</sup> /s (cSt)	12.0	14.0
Viscosity index	100	100

The information given in the typical data does not constitute a specification but is an indication based on current production and can be affected by allowable production tolerances. The right to make modifications is reserved. This supersedes all previous editions and information contained in them.

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