



DELO[®] 1000 MARINE

SAE 30, 40

PRODUCT DESCRIPTION

Delo[®] 1000 Marine is a high-performance, medium-alkaline, diesel engine oil for medium- and high-speed trunk piston diesel engines.

CUSTOMER BENEFITS

Delo 1000 Marine delivers value through:

- **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.
- **Rust protection** — Prevents corrosion of engine parts when the engine is not in operation. Provides excellent rust protection as required in stern tube application.
- **Balanced additive components** — Provides minimal maintenance and down time, long engine life, and economical operating costs.

FEATURES

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.

Delo 1000 Marine has extremely good viscosity control, and its excellent alkalinity retention properties prevent corrosive wear over long periods of time.

Delo 1000 Marine also has good water separation and anti-foam properties.

APPLICATIONS

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%.

Delo 1000 Marine is approved by the major builders of trunk piston engines.

The FZG (A/8.3/90) failure load stage 12 permits its use in engine reduction gears and other applications where EP properties are required.

Product(s) manufactured in the USA and Colombia.

Always confirm that the product selected is consistent with the original equipment manufacturer's recommendation for the equipment operating conditions and customer's maintenance practices.

A **Chevron** company product

24 March 2015
ML-40

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TYPICAL TEST DATA

| SAE Grade | 30 | 40 |
|--|----------|----------|
| <i>Product Number</i> | 235096 | 235094 |
| <i>SDS/MSDS Number</i> | | |
| <i>USA</i> | 12811 | 12811 |
| <i>Colombia</i> | — | 32512 |
| Density at 15°C, kg/L | 0.89 | 0.89 |
| Viscosity, Kinematic | | |
| cSt at 40°C | 102.5 | 135 |
| cSt at 100°C | 11.6 | 14.2 |
| Viscosity Index | 100 | 100 |
| Flash Point, °C(°F) | 240(464) | 240(464) |
| Pour Point, °C(°F) | -18(-4) | -18(-4) |
| Sulfated Ash, wt % | 1.67 | 1.67 |
| Base Number, ASTM D2896 | 12 | 12 |
| FZG test (A/8.3/90), failure load test | 12 | 12 |

Minor variations in product typical test data are to be expected in normal manufacturing.

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