

Product	Sinopec Marine Trunk Piston Engine Oil 4012
Summary	Product description Sinopec Marine Trunk Piston Engine Oil 4012 is formulated using high-quality paraffinic mineral base oils and selected additives to meet the needs of a wide range of marine engine manufacturers. It is designed primarily for use in marine medium-speed trunk piston diesel engines that run on fuels with a sulfur content of around 0.5%.

Applications

Sinopec Marine Trunk Piston Engine Oil 4012 is suitable for use in:

- Marine medium-speed trunk piston engines running on 0.5% sulfur fuel.
- Small-bore, high-speed marine engines, for example those used in fishing fleets.
- Newer types of severe-service marine diesel engines.
- Auxiliary diesel engines of large vessels running on 0.5% sulfur fuel.
- Stationary diesel-fuelled generators running on 0.5% sulfur fuel.
- Stern tubes, reduction gears under low-load conditions, and other auxiliary equipment.

Features and benefits

- Neutralises acidic fuel combustion products thereby preventing rusting and corrosion of engine bearings, and corrosive wear of cylinder liners.
- Excellent detergency and dispersancy characteristics keep the engine clean and prevent the formation of piston and ring deposits, protecting components against wear, reducing oil filter blockage, and prolonging engine service life and oil life.
- Excellent antiwear properties prevent adhesive wear of cams, camshafts and bearings, extending component life and reducing maintenance costs.
- Good thermal and oxidation stability prevent oil thickening in service, keeping the oil in grade, and so prolong oil life.
- Excellent water-shedding properties enable water to be easily removed from the oil, and prevent the formation of an oil-water emulsion.

Product Data Sheet

Typical data

Sinopec Marine Trunk Piston Engine Oil 4012	
SAE grade	40
Kinematic viscosity, ASTM D 445	
cSt @ 40°C	142.4
cSt @ 100°C	14.28
Viscosity index, ASTM D 2270	98
Rust prevention, synthetic sea water, ASTM D 665	no rust
Sulfated ash, wt%, ASTM D 874	1.75
Total base number, mg KOH/g, ASTM D 2896	11.20
Pour point, °C, ASTM D 97	-12
Flash point (COC), °C, ASTM D 92	256
Density @ 15°C, kg/l, ASTM D 4052	0.895

These data are given as an indication of typical values and not as exact specifications.

Accuracy of information

Data provided in this PDS is typical and subject to change as a result of continuing product research and development. The information given was correct at the time of printing. The typical values given are subject to variations in the testing procedures and the manufacturing process may also result in slight variations. Sinopec guarantees that its lubricants meet any industry and OEM specifications referred to on this data sheet.

Sinopec cannot be held responsible for any deterioration in the product due to incorrect storage or handling. Information on best practice is available from your local distributor.

Product and environmental safety

This product should not cause any health problems when used in the applications suggested and when the guidance provided in the Material Safety Data Sheet (MSDS) is followed. Please consult the MSDS for more detailed advice on handling; MSDSs are available from your local distributor. Do not use the product in applications other than those suggested.

As with all products, please take care to avoid environmental contamination when disposing of this product. Used oil should be sent for reclamation/recycling or, if not possible, must be disposed of according to relevant government/authority regulations.

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Issued: September 2011

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