



## Marine Diesel Engine Oil Technical Data Sheet (TDS)

### MARISEA-I

Tajhiz Niroo Zangan is a public stock company and manufacturer of various lubrication products, used in automotive, industrial and marine equipment, including gasoline and diesel engine oils, gear oils, hydraulic fluids, compressor oils, locomotive oils, greases, heavy-duty marine diesel engine oils, trunk piston oils, cylinder oils, antifreeze, ...

20L

208L

# SAE 40 API CI-4

## Marine Heavy-Duty Diesel Engine Oil

MARISEA\*-I is a good-quality marine diesel engine oil, designed for the lubrication of main and auxiliary medium-speed trunk piston engines, burning distillate fuels with up to 1% wt. Sulfur content. This marine heavy-duty diesel engine oil is formulated with carefully balanced high-quality hydrotreated lube base stocks, and a modern technology additive package, meeting the requirements of the major manufacturers of medium-speed marine diesel engines such as: API CI-4, Volvo, MAN, Caterpillar, MTU, Renault, MAK, Detroit Diesel, Cummins, etc.

### APPLICATIONS

- Engines burning distillate fuels with sulfur content of up to 1% wt.
- Heavy-duty and high-speed diesel engines operating continuously under very severe conditions
- Engines with or without exhaust gas recirculation (EGR) system
- On- and off-highway applications in the mining, quarrying, construction and agriculture

### BENEFITS

- Reduction of oil consumption due to excellent shear/viscosity stability
- Improved oxidation resistance
- Outstanding TBN retention due to high acid neutralization ability
- Rust and corrosion protection
- Low pour point

### SAE40, API CI-4

Specification	Vis @ 100 °C cSt	Vis @ 40 °C cSt	VI -	Density @ 15 °C kg/m <sup>3</sup>	TBN mg KOH/g	Flash Point °C	Pour Point °C
Typical	15.5	135	119	875	13	235	-21
ASTM Test Method	D 445	D 445	D 2270	D 1298	D 2896	D 92	D 97

\*MARISEA: Taken from the name of a powerful and strong horse, named Marismeño, known as Marsh Horse