



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 20W-50 API CI-4

Marine Heavy-Duty Diesel Engine Oil

MARISEA*-I is a premium quality marine engine oil, formulated with high-quality base stocks and new generation additives, meeting the requirements of a wide range of marine engine manufacturers such as API CI-4/CF, MTU, ACEA E7, Volvo, MAN, Caterpillar, MB, Renault, MAK, Detroit Diesel, and Cummins. This product due to its advanced formulation possesses excellent detergency, dispersancy, antioxidation, anti-wear characteristics and effective acid neutralization capability.

APPLICATIONS

- Engines burning distillate fuels with sulfur content of up to 1.0% wt.
- Heavy-duty, high-speed diesel engines, operating continuously under very severe conditions
- Engines with or without exhaust gas recirculation (EGR) system
- Operating in 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
- Excellent low-temperature fluidity and easier engine start-up
- Protection against start-up wear

SAE 20W-50, API CI-4

Specification	Vis @ 100 °C cSt	Vis @ 40 °C cSt	VI -	Density @ 15 °C kg/m ³	TBN mg KOH/g	Flash Point °C	Pour Point °C	CCS @ -15 °C cP
Typical	20	180	129	881	13	230	-27	7000
ASTM Test Method	D 445	D 445	D 2270	D 1298	D 2896	D 92	D 97	D 5293

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