



**Marine Diesel Engine Oil**  
**Technical Data Sheet (TDS)**  
**SUPER 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 15W-40

# API CI-4 PLUS

## Marine Heavy-Duty Diesel Engine Oil

SUPER MARISEA\*-I is a full-synthetic high-performance marine engine oil specially formulated by new generation additives which meet the severe requirements of a wide range of engine manufacturers such as API CI-4/CF/SL, MTU II, ACEA E7, ACEA A3/B4, Volvo VDS-3, MAN 3275, MB 228.3 package approval, Caterpillar ECF-1a, MB 229.1, Renault RLD-2, Mack EOM+, Detroit Diesel DDC 93K215, Cummins 20076/20077/20078. SUPER MARISEA-I due to its advanced formulation possesses excellent detergency, dispersancy, antioxidation, anti-wear properties and effective acid neutralization capability.

### APPLICATIONS

- Engines burning distillate fuels with sulfur content up to 1.0% wt.
- Heavy-duty and high-speed diesel engines operating continuously under very severe conditions
- Engines with or without exhaust gas recirculation (EGR) systems
- Operating in highway and off-highway applications in the mining, quarrying, construction and agricultural industries

### BENEFITS

- Reduction of oil consumption due to excellent shear stability
- Superior oxidation resistance capability
- Outstanding TBN retention due to high acid neutralization ability
- Rust, corrosion and wear protection
- Excellent low-temperature properties, easier engine start-up and protection against start-up wear

### SAE 15W-40, API CI-4 PLUS

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	CCS @ -20 °C cP
Typical	15.8	120	139	875	14	235	-36	5300
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 Marismeño, known as Marsh Horse