

Product Data Sheet

Sonora Premium

Description and Applications

Saheli Sonora Premium is a premium quality marine engine oil developed to meet the performance requirements of modern turbocharged and naturally aspirated marine diesel engines operating on distillate diesel fuel under severe conditions.

Saheli Sonora Premium is blended from highly refined base stocks and new generation additives to provide excellent detergency, dispersancy and anti-wear protection with effective acid neutralization capability.

Saheli Sonora Premium offers exceptional protection and extended life to low emission diesel engines including those fitted with Exhaust Gas Recirculation (EGR) systems.

Saheli Sonora Premium meets the requirements of most of the medium and high-speed marine diesel engines.

Features and Benefits

- Excellent thermo-oxidative stability reduces deposits, sludge and oil thickening.
- Excellent soot handling capability protects against oil thickening and wear.
- High shear stability ensures viscosity control at elevated temperatures and reduces oil consumption and wear.
- Advanced detergency reduces deposits, keeps engine clean and provides added protection against bore polishing.
- Excellent TBN retention capacity protects engine against corrosive wear by neutralizing the acids.

Applications

- Modern turbocharged and naturally aspirated 4-stroke medium and high speed marine diesel engines requiring oils meeting the specifications given in the table below.
- Turbocharged and naturally aspirated diesel engines used in on-highway and off-highway applications (mining, construction, agriculture) including those fitted with EGR systems and meeting US 2004 emission norms introduced in 2002 requiring oils meeting specifications given below.
- General ship applications requiring oils meeting the below mentioned specifications.
- Transmissions requiring oil meeting the performance levels given below.

Specifications

Meets

- **API CI-4, CH-4, CG-4, CF-4, SL**
- ACEA E7, E5, A3/B3, A3/B4, Global DHD-1
- Daimler Chrysler MB 228.3, MB 229.1, Cummins CES 20071/ 72/ 76/ 77/ 78
- Volvo VDS-3, Mack EO-M Plus, MAN M 3275, MTU Oil Category 2

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Test Parameters	Test Method	Typical
Sonora Premium		15W40
Density @ 15°C gm/cm ³	ASTM D1298	0.895
Viscosity Index	ASTM D2270	140
Viscosity @ 100°C, mm ² /s	ASTM D445	14.50
Pour Point °C	ASTM D 97	-27
Flash Point (COC) °C	ASTM D 92	226
TBN, mgKOH/g	ASTM D 2896	11.29
Sulfated Ash, wt%	ASTM D 874	1.45

The information contained in this data sheet are indicative and correspond to the date of publication of this document. The above data are based on laboratory tests. It is the reader's interest to ensure whether the most recent version of the data sheet. A safety data sheet is available on request by our sales consultant. For more information, please contact the sales department.

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