

## Product Data Sheet

### HIPRO X1000 SAE 15W-40 API CI-4/SL

Super High Performance Synthetic Blended Diesel Engine Oil

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#### PRODUCT FEATURES

**HIPRO X1000** is an synthetic blended extra high performance diesel engine lubricants designed and formulated for use in marine application, as well as diesel engines used in trucks, fleets, mining, earth moving equipment, construction, quarrying, agricultural industrial and farm equipment. It has been developed to meet critical North America and European OEM specifications as well as API CI-4, ACEA E7/E5/E3 and Global DHD-1. The advanced chemistry of these products delivers exceptional performance in modern, high output, low-emission engines including those with Exhaust Gas Recirculation (EGR), as well as older engines operating on low or higher sulfur fuel.

#### APPLICATIONS

- ◆ Recommend for use in high performance diesel applications including the latest turbo-charged, low emission engine designs including those featuring EGR technology.
- ◆ On highway applications operating in high speed/ high load and short haul pick-up or delivery.
- ◆ Suitable for used in naturally aspirated 4-stroke marine diesel engines (e.g. Mitsubishi, Isuzu, etc) and heavy duty engines (e.g. bull-dozers, tractors, fishing boats, etc).
- ◆ On highway heavy duty trucking and off highway including: construction, mining, quarrying, and agriculture.
- ◆ Recommended for use in the most domestic and imported heavy-duty engines, including:

- ┌ Caterpillar
- ┌ John Deere
- ┌ Mack
- ┌ MTU
- ┌ Volvo
- ┌ Case IH
- ┌ Detroit Diesel

- ┌ MAN
- ┌ Navistar
- ┌ Cummins
- ┌ Komatsu
- ┌ Mercedes-Benz
- ┌ Perkins

#### SPECIAL PROPERTIES

- ◆ Excellent oxidation stability and strong resistance to high and low temperature sludge formation
- ◆ Cleans engine by strong detergent-dispersant additives
- ◆ Protects engine against wear, corrosion and rust
- ◆ Reduces wear, reduces maintenance cost
- ◆ Stay in grade shear stability
- ◆ Easier engine start-up and reduced wear
- ◆

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**CAUTION:** Continuous contact with used oil has caused skin cancer in lab animals. Avoid prolonged skin contact. Avoid eye contact. Wash skin thoroughly with soap and water after handling. Flush eyes with water for 15 minutes in case of contact. If swallowed, do not induce vomiting. Contact a physician immediately. **KEEP OUT OF REACH OF CHILDREN.**

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- ◆ Longer life of critical wear surfaces
- ◆ Longer gasket and seal life
- ◆ Extended drain intervals
- ◆ Component compatibility
- ◆ Reduced oil consumption and emissions
- ◆ Minimizes piston and combustion chamber deposits

## PERFORMANCE LEVELS

- |                                    |                                             |
|------------------------------------|---------------------------------------------|
| u API CI-4/SL                      | u MTU Oil Category 2                        |
| u ACEA E7-04/ E5-02/ E3-96 Issue 4 | u Volvo VDS-2, VDS-3                        |
| u Global DHD-1                     | u JASO DH-1                                 |
| u MB Approval 228.3                | u Cummins 20071, 20072, 20076, 20077, 20078 |
| u MAN M 3275                       | u Mack EO-M, EO-M Plus                      |

## TYPICAL SPECIFICATION

PROPERTY	UNIT	TEST METHOD	SAE 15W40
			SPECIFICATION
Density at 15 deg C	Kg/l	ASTM D4052	0.8817
Viscosity at 40 deg C	cSt	ASTM D445	110
Viscosity at 100 deg C	cSt	ASTM D445	14.0 – 15.0
Viscosity Index		ASTM D 2270	Min 130
Flash Point COC	deg C	ASTM D 92	Min 220
Pour Point	deg C	ASTM D 97	-36
Total Base Number	mgKOH/g	ASTM D 2896	9.70

*\* The above specifications are typical of current production, variation in these characteristics may occur, but will not affect the product performance.*

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