

## PRODUCT DATA SHEET

Revision: 02

Dated: 21-01-2013

### **BNO Diesel Super, API CI-4**

#### **Product Description:**

BNO Diesel Super is a super high performance API CI-4 multi-grade oil that is formulated from high quality base oils and selected additives to provide excellent detergency, dispersancy and anti wear properties. It is recommended for heavy-duty diesel engines operating in both on and off-highway services. BNO Diesel Super provides outstanding protection against oil thickening, high temperature engine deposits and sludge formation, oil degradation, corrosion. It has excellent low temperature properties, which ensure a ready oil circulation on start up to prevent wear and while it stays in grade. Shear stability enable it to maintain viscosity under severe high temperature operation.

#### **Applications / Benefits:**

BNO Diesel Super is highly intended for use in turbocharged diesel engines in various types of services with either high or low sulfur fuels. It meets or exceeds the requirements of most manufacturers of diesel and passenger cars, heavy-duty trucks, construction, mining, farming and high-speed marine engines. It also meets the requirements of medium and light-duty diesel engines and two stroke diesel engines. BNO Diesel Super is especially suited for engines under warranty and for applications where super high performance API CI-4/SL oils are recommended.

#### **Typical Characteristics:**

Test Description	Typical Results		Method
SAE Viscosity Grade and API Performance Level	15W-40/ API CI-4	20W-50/ API CI-4	SAE J300
ASTM Color	3.9	3.9	ASTM D 1500
Kinematic Viscosity at 40°C, cSt	114.0	175.0	ASTM D 7042
Kinematic Viscosity at 100°C, cSt	14.5	19.5	ASTM D 7042
Viscosity Index	136.0	125.0	ASTM D 7042
Density at 15°C, g/cm <sup>3</sup>	0.87	0.88	ASTM D 7042
Pour Point, °C	Max. -27	Max. -24	ASTM D 97
COC Flash Point, °C	Min. 216	Min. 220	ASTM D 92
Sulphated Ash, wt%	1.3	1.3	ASTM D874
TBN, mg KOH/g	11.0 ± 0.5	11.0 ± 0.5	ASTM D 2893

#### **Performance Standards:**

- API CI-4/CH-4/CG-4/CF-4/CF/CF-2/SJ/SL

#### **Health, Safety and Environment:**

Based on available data collected from MSDS of ingredients used in the product, this product is not health hazardous. However, proper precautions should be taken to avoid long-term skin contact, exposure or accidental effect. Since it is a non-biodegradable product the used or waste oil should be recycled or disposed off in conformity to local disposal regulations to avoid environmental pollution.

*[The information and figures given here are typical of current one which conforms to the specifications, minor variations which do not affect product performance may occur during manufacturing.]*

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