

PRODUCT DATA SHEET

BNO Marine Oil Series

Product Description:

BNO Marine Oil series has been specially formulated for low sulphur fueled marine diesel engines. It is formulated to have excellent resistance to oxidation and increased viscosity over a long period of service. They provide excellent corrosion protection. BNO Marine Oil series is intended for use as cylinder and bearing lubricants in marine and industrial diesel engines operating on distillate fuels or light fuel blends. It may be used as crankcase lubricants in large cross-head type diesel engines operating on low sulfur fuels.

Applications and benefits:

- Applicable for low sulphur fueled marine diesel engines
- Superb viscosity control when used in severe high temperature service.
- Exceptional alkalinity retention characteristics preventing corrosive wear over long time.
- Gives extra protection against rings sticking, piston deposits and wear under most severe operation conditions.

Typical Characteristics:

Test Description	Method	BNO Marine -40 (TBN:12)	BNO Marine-40 (TBN:15)	BNO Marine-50 (TBN:12)	BNO Marine-50 (TBN:15)
SAE Viscosity Grade	SAE J300	SAE 40	SAE 40	SAE 50	SAE 50
Density at 15°C, g/cm ³	ASTM D7042	0.902	0.908	0.910	0.910
Kinematic Viscosity at 40°C cSt	ASTM D7042	142.8	145.3	190.0	190.0
Kinematic Viscosity at 100°C cSt	ASTM D7042	14.4	14.5	18.5	18.5
Viscosity Index	ASTM D7042	99.0	99.0	99.5	99.5
Pour Point, °C (Max.)	ASTM D97	- 12	- 12	- 9	- 9
COC Flash Point, °C (Min.)	ASTM D92	230	230	230	230
Sulphated Ash, wt %	ASTM D874	1.68	2.1	1.68	1.70
TBN, mg KOH/gm	ASTM D2896	12.0	15.0	12.0	15.0

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 specifications, minor variations which do not affect product performance may occur during manufacturing.)

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