



MS 4040

MARINE OIL API CF

Black Bulls MS 4040 Marine oil is a premium quality, extra high performance, of trunk piston engine oils developed for use in medium speed diesel engines burning residual fuels. It is specially developed for use in heavy duty trunk piston diesel engines. It has an optimum viscosity of over 10+ cSt. at 100°C and low volatility with high alkalinity level to ensure excellent lubricant distribution and oil film retention. Black Bulls MS 4040 Marine has demonstrated outstanding ring and liner protection and cleanliness under sustained operation with fuel content of high unit of Sulphur levels.

Typical Properties:

PROPERTY	TEST METHOD	TYPICAL VALUES
SAE Grade		40
Specific Gravity at 15°C	ASTM D 1298	0.8850
Flash Point, °C,	ASTM D 92	242
Pour Point, °C,	ASTM D 97	-9
cSt, at 40 °C	ASTM D 445	Reports
cSt, at 100 °C	ASTM D 445	15.5
Viscosity Index,	ASTM D 2270	98
TBN, mg KOH/g,	ASTM D 2896	40

Applications:

MS 4040 has been developed with the requirements OEMs and meets the requirements of all major medium speed engine manufacturers.

Specifications and Approvals:

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Advantages:

- Extend engine life.
- Prevent scuffing and scoring of engine parts
- Excellent thermal and oxidation stability can lead to reduced deposits and sludge formation. Cleaner engines can lead to reduced component wear rates.
- Exceptional anti-wear properties lead to potentially reduced liner and ring wear and excellent anti-scuffing control.
- Outstanding detergency capability leads to potentially cleaner pistons and liners and can help extend periods between overhauls.

