



Makina Grease & Lubricants Manufacturing L.L.C.

MarEng 4012

Description

MarEng 4012 is a standard diesel engine lubricant formulated with quality base oil and well proven additives. The TBN of 12 mg/KOH/g provides the level of detergency needed to accommodate the condition found in traditional trunk piston marine diesel engines and effect of burning poorer quality distillate fuels.

Application

- Good thermal stability
- Good detergent properties at high temperatures.
- Good wear protection.
- Good dispersing properties at low temperatures.
- Good oil frame at extreme pressure.
- Excellent water resistance.
- Excellent filtration capacity.
- Excellent capacity for centrifuging and for separating out water and insoluble.
- Very good BN stability.

Care and Handling

- Avoid prolonged or repeated contact with skin. Wash thoroughly after handling.

Packing and Storage

- Supplied in bulk and drum of approximately 210 liters. Ensure drums are tightly re-sealed after use.
- All packages should be stored under cover. Where outside storage is unavoidable drums should be laid horizontally to avoid the possible ingress of water and the obliteration of drum marking.
- Product should not be stored above 60°C, exposed to hot sun or freezing condition.



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Typical Characteristics

PROPERTIES	UNITS	TEST METHOD	4012
SAE VISCOSITY GRADE			40
KINEMATIC VISCOSITY, at 40°C	mm ² /s	ASTM 445	128
KINEMATIC VISCOSITY, at 100°C	mm ² /s	ASTM 445	13.7
VISCOSITY INDEX		ASTM D2270	>95
DENSITY at 15°C	kg/L	ASTM D-4052	0.890
FLASH POINT (PMCC)	°C	ASTM D93	>200
POUR POINT	°C	ASTM D97	<-21
TOTAL BASE NUMBER	mg/KOH/g	ASTM D2896	12
SULPHATED ASH	%wt	ASTM D874	1.35