



## MARINE 3030 & 3040

### PRODUCT DESCRIPTION:

Marine 3030 and 3040 are trunk piston engine oils for crankcase lubrication requirements of high-output, medium-speed engines and other similar marine-type applications. They are formulated from solvent-refined paraffin thermally stable base oils, combined with an effective additive package providing enhanced load-carrying ability, efficient oxidation stability and effective dispersancy/detergency. They provide effective acid neutralization and alkalinity retention in service, even when high-Sulphur fuel is used. They are capable to handle heavy residual fuels with high asphalt content.

### APPLICATION:

Marine 3030 and 3040 are recommended for use in high-output trunk piston marine diesel engines operating on heavy residual fuels (Sulphur up to 2.0%)

### FEATURES & BENEFITS:

- Excellent TBN retention, with low oil consumption
- Cleaner piston, ports and cylinders, thus extending overhauls
- Fast separation from water in case of water contamination
- Low under crown deposits
- Controls sludge formation, thus increasing oil filter life and reduces cleaning frequencies

### PERFORMANCE STANDARDS: Meets or Exceeds:

- API CF

### MEETS OEMs

- MAN
- Mak / Caterpillar
- Wartsila
- Yanmar
- Daihatsu

### TYPICAL PROPERTIES:

PARAMETERS	TEST METHOD	UNIT	Marine 3030	Marine 3040
SAE Grade			30	40
Kinematic Viscosity @ 104°F/40°C	ASTM D445	cSt	TBR	TBR
Kinematic Viscosity @ 212°F/100°C	ASTM D445	cSt	11.0	15.0
Viscosity Index	ASTM D2270	-	95	95
SP. Gravity @ 60°F	ASTM D4052	g/cm <sup>3</sup>	TBR	TBR
Flash Point (min)	ASTM D92	°C	220	220
Pour Point (max)	ASTM D97	°C	-9	-9
TBN	ASTM D2896	Mg KOH/g	30	30

### HEALTH & SAFETY, ENVIRONMENT:

Prolonged and repeated contact with oil may cause skin disorders. Avoid contact. Wash immediately with soap and water. Do not discharge used oil in to drains or the environment. Dispose to an authorized used oil collection point. For further information on Safety Guidelines please refer to MSDS available on our website [www.lubrex.net](http://www.lubrex.net)

### HEALTH & SAFETY:

This product is not likely to present any significant health or safety hazards when properly used in the recommended application and good standards of personal hygiene are maintained. Reference is made to the Safety Data Sheet (SDS) which is available on request via your local sales office or via the internet [www.lubrex.net](http://www.lubrex.net)

### PROTECT THE ENVIRONMENT:

Take used oil to an authorized collection point. Comply with local regulation. Do not discharge into drains, soil or water.

### STORAGE:

We recommend to store all packages under cover. In case outside storage is unavoidable, drums should be laid horizontally to avoid the possible ingress of water and damage to drum markings. Products should never be stored above 60°C, exposed to hot sun or freezing conditions.

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