



## MARINE 4040, 4050, 4055

### PRODUCT DESCRIPTION:

Marine 4040, 4050, and 4055 are trunk piston engine oils designed for use in medium speed diesel engines operating on residual fuels in marine, power generation and industrial applications. The superior additive technology used in these oils provide excellent engine cleanliness & wear protection under different operating conditions. These oils exhibit a high degree of water tolerance and have better water separation and base retention properties.

### APPLICATION:

Recommended for use in trunk piston engines (4-stroke) engaged in marine propulsion and land based power generation applications running on residual/heavy fuels.

### FEATURES & BENEFITS:

- Outstanding engine cleanliness especially in hotter engine parts like piston rings & piston under-crowns
- Higher base number (BN) stabilization even in low oil consuming engines
- Good anti-wear protection of piston rings and cylinder liners
- Higher degree of compatibility with fuel asphalts
- Good viscosity & insoluble control
- Longer drain capabilities

### PERFORMANCE STANDARDS: Meets or Exceeds:

- API CF

### MEETS OEMs

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

### TYPICAL PROPERTIES:

PARAMETERS	TEST METHOD	UNIT	Marine 4040	Marine 4050	Marine 4055
SAE Grade			40	40	40
Kinematic Viscosity @ 104°F/40°C	ASTM D445	cSt	TBR	TBR	TBR
Kinematic Viscosity @ 212°F/100°C	ASTM D445	cSt	14.9	15.0	15.1
Viscosity Index	ASTM D2270	-	95	95	95
Density@ 60°F	ASTM D4052	g/cm <sup>3</sup>	TBR	TBR	TBR
Flash Point (min)	ASTM D92	°C	220	220	220
Pour Point (max)	ASTM D97	°C	-9	-9	-9
TBN	ASTM D2896	Mg KOH/g	40	50	55

**DISCLAIMER:** The test data provided above is not a specification but is indicative and may vary within permissible production tolerances. Lubrex reserves the right to modify this test data. Updated information will supersede previous versions, so please refer to the latest version of this Technical Data Sheet (TDS).

### 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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