

Marine System Oil

DCC3008, 4008

Product Description

PetroChina Lubricant Company's DCC3008 and DCC4008 Marine System Oil is produced from the deep refined base oil from XinJiang's crude which undergoes precise de-waxing process and a unique blending process by using our special overbased naphthenate as main additive and other additives such as anti-oxidation and etc. Its formulation has good detergency with great dispersant capability, anti-corrosion, and oxidation stability proven by the bench test. Its quality meets the international standard and requirement.

Applications

Kunlun Marine DCC 3008, DCC 4008 System Oil is for use in low speed crosshead engine, burning heavy fuel oil. It is ideal lubricating oil for new generation of high efficiency crosshead marine diesel engine with cylindrical piston that combusts low sulphur content fuel with sulphur content less than 0.5%.

Features

- Excellent heat stability that cools piston and crank axle/shaft and is resistant to microbiological degradation resulting in longer oil life
- Effective sludge separation capability
- Excellent anti-oxidation and anti-corrosion that reduces oxidation and abrasion within the crankcase effectively
- Excellent anti-wear that provides effective and efficient lubrication at high temperature and high pressure environment
- Excellent water resistance and separation capability for easy removal of contaminated water by centrifuge

Field Test and Result

- Approval from MAN B&W.
- Cylinder and piston operate with no sign of abrasion and there is no deposit formation in the piston ring or piston. Less ash was observed at the exhaust and has good water shedding properties.
- No formation of submerge particles, floating particles and insolubility and etc problems were experienced when mixing DCC3008 and DCC4008 with any other types of similar marine system oil.

Specifications

Properties		DCC3008	DCC4008	Testing Method
Kinematic Viscosity (100°C)	mm ² /s	11.0	14.5	ASTM D445
TBN	mgKOH/g	8	8	ASTM D2896
Density at 15°C	Kg/m ³	886.1	888.1	ASTM D4052
Density at 20°C	Kg/m ³	883.0	885.0	ASTM D4052
Viscosity Index		90	90	ASTM D2270
Flash Point	°C	238	238	ASTM D92
Pour Point	°C	-18	-15	ASTM D97
Mechanical Impurity	%	0.005	0.005	GB/T511
Water Content	%	Trace	Trace	ASTM D95
Sulphated Ash	%	1	1	ASTM D874
Rust Test (Sea Water)		Pass	Pass	ASTM D665

* Above product typical properties are indicative and subject to change without prior notice

Storage and Handling

- All storage equipments, tanks, pipes, valves and etc. apparatus has to be cleaned thoroughly and inspected to be clean for use before being used to transfer or transport DCC3008 and DCC4008 marine system oil to prevent contamination.
- Storage tanks/equipment must be dedicated and is recommended to be stored in an indoor and controlled environment.
- Storage tanks/equipment must be waterproof, mist-proof and free from other mechanical particles.
- Product must be labeled clearly and properly during the entire transportation process to prevent mixing of other petrol-chemical product into the marine system oil.