

KunLun Marine Trunk Piston Engine Oil DCB3030H、 DCB4030H

Product Introduction

PetroChina Lubricant Company's DCB3030H and DCB4030H Marine Trunk Piston Engine Oil is produced from the deep refined base oil which undergoes precise dewaxing process and a unique blending process by using our special overbased naphthenate as main additive and other additives such as anti-oxidation and etc. DCB3030H and DCB4030H have excellent detergency with good dispersant capability, anti-corrosion, and oxidation stability proven on bench test.

Application

KunLun Marine DCB3030H and DCB4030H Trunk Piston Engine Oil is suitable for use as lubrication for main propulsion and auxiliary marine trunk piston engine using heavy fuel oil with sulphur content less than 3.0%. It has pass the 6000 hrs approval test of MAN ES & MAK.

Feature

- Excellent detergency that reduces the buildup of soot, sludge and heavy fuel contaminants in critical parts of the engine
- Excellent oxidation stability at high temperature that prevents formation of unwanted oxides at high temperature and longer oil life
- Excellent anti-oxidation, anti-corrosion and good alkalinity that reduce corrosion and damage of cylinder and piston from combustion of high sulphur content fuel
- Excellent alkalinity stability / oxidation stability that prevents weaken of alkalinity over times. Provides protection to engine throughout entire oil life.
- Excellent anti-wear property that reduces abrasion under both high temperature and high pressure environment
- Excellent water resistance and separation capability for easy removal of contaminated water by centrifuge.

Field Test and Result

- DCB4030H Marine Trunk Piston Engine Oil had undergone a 3,000 hours performance test on MAN 16V52/55A/SET engine.
- Clean piston, piston ring and exhaust orifice with little ash accumulation. Clean and smooth cylinder and piston ring. Relatively low abrasion at cam and jaw

system. Lubrication standard meets the standard of similar lubricating oil from international brand.

- Suitable for huge horsepower diesel engine burning fuel of high sulfur content.
- No formation of submerge particles, floating particles and insolubility and etc problems when mixing DCB3030H/ DCB4030H with any types of similar Marine Trunk Piston Engine Oil.

Specification

| Properties | Typical | | Testing Method |
|--|----------|----------|----------------|
| | DCB3030H | DCB4030H | |
| Kinematic Viscosity (100°C) mm ² /s | 11.5 | 14.5 | ASTM D445 |
| TBN mg KOH/g | 30 | 30 | ASTM D2896 |
| Viscosity Index | 95 | 95 | ASTM D2270 |
| Flash Point °C | 238 | 238 | ASTM D92 |
| Pour Point °C | -18 | -15 | ASTM D97 |
| Mechanical Impurity % | 0.01 | 0.01 | GB/T511 |
| Water Content % | 0.03 | 0.03 | ASTM D95 |
| Sulphate Ash % | 3.6 | 3.6 | ASTM D874 |
| Density 15°C Kg/m ³ | 893.1 | 903.1 | ASTM D4052 |
| Density 20°C Kg/m ³ | 890.0 | 900.1 | ASTM D4052 |
| Rust Test (Sea Water) | No Rust | No Rust | ASTM D665 |
| Water Separation Property | | | SH/T0619 |
| Purified Water ml | 1.3 | 1.3 | |
| Emulsifier ml | 0.3 | 0.3 | |
| High Temperature Oxidation and Step Brass Corrosion (L-38) | Pass | Pass | ASTM D665 |
| 135 Engine Test (Heavy Fuel Oil) | Pass | Pass | Bench Test |
| Potential Power (CL-100) grade | 11 | 11 | DIN51634 |

* Product specifications are 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 DCB3030H / DCB4030H Marine Trunk Piston Engine Oil to prevent contamination.
- DCB3030H / DCB 4030H must be stored in dedicated storage tanks/equipment 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.



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- Product must be labeled clearly and properly during the entire transportation process to prevent mixing of other petrol-chemical product into the Marine Trunk Piston Engine Oil.