

PN Marine System Oil for Crosshead Crankcases

Product reference: CBY-02

System lubricant for marine crosshead diesel engine crankcases and related circulating systems.

PN Marine System Oil for Crosshead Crankcases

Product name

PN Marine System Oil for Crosshead Crankcases

Viscosity grade

3005, 3008, 4005, 4008

Standard reference

GB/T 38049-2019

Product overview

PetroNexus Marine System Oil is blended from deeply solvent-refined base oils and an efficient multifunctional additive package. It meets the requirements of Chinese national standard GB/T 38049-2019 and is designed specifically for lubricating marine propulsion systems. It provides excellent detergency and dispersancy, oxidation and corrosion resistance, antiwear protection and water separation. It effectively protects the crankcases and hydraulic servo systems of low-speed marine crosshead two-stroke diesel engines, supporting stable long-term equipment operation. Its quality is at an advanced level among comparable domestic and international products.

Performance

- Excellent thermal and oxidation stability withstands high temperatures, limits sludge formation and effectively extends lubricant service life.
- Good detergency and dispersancy keep engine internals clean and prevent components from sticking or seizing.
- Strong antiwear, rust-prevention and corrosion-protection properties protect critical components in marine propulsion systems.
- Excellent water separation and compatibility suit humid marine operating conditions and make topping up and maintenance convenient.

Applications

- Grades 3005, 3008, 4005 and 4008 are all suitable for crankcase lubrication in low-speed marine crosshead two-stroke diesel engines.
- Grade 4008 is also suitable for trunk-piston diesel engines and marine auxiliary engines burning light fuel with a sulfur content below 0.5%, offering a broader range of applications.
- Widely used for circulating lubrication of key equipment in ocean-going and coastal vessels, including main-engine crankcases, auxiliary generator sets and gearboxes. It can also lubricate land-based diesel

generator sets.

Packaging

170 kg drums; 1-tonne IBC containers.

For grade selection, technical requirements, packaging and commercial terms, contact sales@petronexusgroup.com.

Product visual and technical data

Marine System Oil for Crosshead Diesel Engines

Marine Crosshead Engine Crankcase
and System Lubricating Oil

Product Grades
3005 / 3008 / 4005 / 4008

Product Standard
GB/T 38049—2019
(Compliance Subject to Verification)

Available Packaging
170 kg Drums / IBC Containers

POWERING
A CLEANER
OCEAN TOMORROW

RELIABLE MARINE LUBRICATION
for Crosshead Engine Systems.

MARINE
PEOPLE
MOVES
THE WORLD

PRODUCT PERFORMANCE

- Excellent Thermal and Oxidation Stability with Reduced Sludge Formation
- Good Detergency and Dispersancy
- Superior Anti-Wear, Rust, and Corrosion Protection
- Excellent Demulsibility and Water Separation Performance
- Good Lubricant and System Material Compatibility

ENGINEERED FOR RELIABLE PERFORMANCE
AT SEA

Stable Lubrication for Marine Power Systems

RELIABLE
ENGINES
STRONGER
VOYAGES

MARINE LUBRICATION | HIGHER UPTIME | A CLEANER TOMORROW

PRODUCT DESCRIPTION

Formulated with severely solvent-refined base oils and advanced multifunctional additive packages, this product is developed for the crankcases and compatible hydraulic servo systems of low-speed two-stroke crosshead marine diesel engines.

It effectively resists high-temperature degradation and sludge formation, provides excellent detergency and dispersancy, superior anti-wear, rust and corrosion protection, and good demulsibility.

Designed for reliable performance in harsh marine environments, it helps ensure clean operation, long equipment life and dependable system lubrication for ocean-going and coastal vessels.

PROVEN LUBRICATION
FOR A MORE RELIABLE TOMORROW

Clean Operation. Reliable Protection. Efficient System Performance.

- Thermal Stability
- Wear Protection
- Water Separation
- System Cleanliness

KEEP MARINE ENGINES RUNNING STRONG

APPLICATIONS

- Low-Speed Two-Stroke Crosshead Marine Diesel Engines**
Suitable for crankcase lubrication in compatible low-speed, two-stroke crosshead marine diesel engines.
- Trunk Piston Diesel Engines — Grade 4008**
Also suitable for compatible trunk piston diesel engines operating on light distillate fuels with sulfur content below 0.5%, subject to manufacturer requirements.
- Marine Power and Circulating Lubrication Systems**
Suitable for ocean-going and coastal vessels including main engine crankcases, auxiliary generator sets, and gearboxes where the specified grade meets equipment requirements.
- Hydraulic Servo Systems and Land-Based Generator Sets**
Suitable for compatible hydraulic servo systems in marine crosshead engines and for compatible stationary diesel generator sets.

PRODUCT OVERVIEW

Product Grades	3005 / 3008 / 4005 / 4008
Product Type	Marine Crosshead Engine Crankcase and System Lubricating Oil
Product Standard	GB/T 38049—2019
Key Feature	Good Demulsibility & Marine System Compatibility
Main Use	Crosshead Engine Crankcases / Servo Systems
Packaging	170 kg Drums / IBC Containers



FLEXIBLE SUPPLY
FOR GLOBAL
MARINE PARTNERS

TYPICAL DATA

Product Name		Maris 3005	Maris 3008	Maris 4005	Maris 4008
Test Item	Test Method	Typical Data	Typical Data	Typical Data	Typical Data
Kinematic Viscosity @100°C, cSt	ASTM D445	10.87	10.92	14.24	14.35
Flash Point, °C	ASTM D92	264	268	275	278
Pour Point, °C	ASTM D97	-22	-24	-22	-22
Viscosity Index	ASTM D2270	98	99	96	95
Density @20°C, kg/l	ASTM D1298	0.875	0.876	0.881	0.879
Base Number, TBN, mg KOH/g	ASTM D2896	5.54	8.42	5.55	8.68

The above data are typical values of the current product. Future production data may vary within the allowable range of quality standards. For more information, please contact your sales representative.

PETRONEXUS

Marine Lubrication Solutions for Reliable Vessel Operation

FUELLING
PROGRESS
ACROSS
OCEANS

PROTECTION RELIABILITY EFFICIENCY GLOBAL SUPPLY

SAME
JOURNEY
A STRONGER
TOMORROW

PETRONEXUS | MARINE ENERGY FOR A BRIGHTER TOMORROW