

# PN Marine Cylinder Oil

Product reference: CBY-01

Cylinder lubricant for low-speed two-stroke crosshead marine diesel engines.

## PetroNexus Marine Cylinder Oil (General-Purpose High-Alkalinity)

### Product name

PetroNexus Marine Cylinder Oil (General-Purpose High-Alkalinity)

### Viscosity / grade

DCA5025, DCA5040, DCA5070, DCA50100

### Standard reference

GB/T 38049-2019

### Product overview

PetroNexus Marine Cylinder Oil is specially developed for cylinder lubrication in low-speed two-stroke crosshead marine diesel engines. It combines deeply refined high-viscosity base oils with a multifunctional additive package to match the operating conditions of highly rated large marine main engines burning poor-quality fuels, addressing the core requirements for cylinder lubrication, corrosion protection and cleanliness.

### Performance features

- Outstanding viscosity-temperature characteristics meet the lubrication requirements of modern engines operating at high pressures and temperatures.
- Good antiwear performance effectively reduces wear on metal components.
- Excellent detergency and dispersancy help prevent carbon deposits.
- Good spreading characteristics allow the oil to reach lubricated surfaces quickly, reducing wear and protecting the engine.
- A low-ash formulation reduces burning.

### Applications

- PN 5025 is suitable for cylinder lubrication in low-speed two-stroke crosshead marine diesel engines using fuel with a sulfur content below 0.1%.
- PN 5040 is suitable for cylinder lubrication in low-speed two-stroke crosshead marine diesel engines using fuel with a sulfur content of 0.5–2.5%.
- PN 5070 is suitable for cylinder lubrication in low-speed two-stroke crosshead marine diesel engines using fuel with a sulfur content above 1.5%.
- PN 50100 is suitable for cylinder lubrication in low-speed two-stroke crosshead marine diesel engines using fuel with a sulfur content above 1.5%.

### Packaging

170 kg drums; IBC containers

For grade selection, technical requirements, packaging and commercial terms, contact [sales@petronexusgroup.com](mailto:sales@petronexusgroup.com).

## Product visual and technical data

### Marine Cylinder Oil High-Base Number Series

High-Base Number Marine  
Cylinder Lubricant



Reliable Cylinder  
Lubrication for Low-Speed  
Two-Stroke Marine Engines

**Product Grades**  
DCA5025 / DCA5040 /  
DCA5070 / DCA50100

POWERING  
CLEANER SEAS  
TOGETHER

### PRODUCT PERFORMANCE



Excellent viscosity-temperature  
characteristics



Superior anti-wear protection



Outstanding detergency  
and dispersancy



Excellent oil spreading and  
distribution properties



Low-ash formulation

TRUSTED LUBRICATION  
FOR A STRONGER TOMORROW



### PRODUCT DESCRIPTION

Marine Cylinder Oil — High-Base Number Series is formulated with deeply refined high-viscosity base oils and multifunctional additives for low-speed, two-stroke crosshead marine diesel engines. It provides reliable cylinder lubrication, helps protect against corrosion, promotes engine cleanliness, and delivers dependable lubrication under demanding operating conditions.

KEEP ENGINES RUNNING  
FURTHER



PRECISE  
LUBRICATION  
FOR LASTING  
PERFORMANCE

### APPLICATIONS



#### DCA5025 — Very Low-Sulfur Fuel Applications

For low-speed, two-stroke crosshead marine diesel engines operating on fuels with sulfur content below 0.1%.



#### DCA5040 — Low-to Medium-Sulfur Fuel Applications

For low-speed, two-stroke crosshead marine diesel engines operating on fuels with sulfur content 0.5% – 2.5%.



#### DCA5070 — Higher-Sulfur Fuel Applications

For low-speed, two-stroke crosshead marine diesel engines operating on fuels with sulfur content 1.5% or above.



#### DCA50100 — Higher-Sulfur Fuel Applications

For low-speed, two-stroke crosshead marine diesel engines operating on fuels with sulfur content 1.5% or above.

Always follow engine manufacturer recommendations regarding BN, fuel quality content, feed rate, operating conditions, and lubricant compatibility.

### PRODUCT OVERVIEW



**Product Grades**  
DCA5025 / DCA5040 /  
DCA5070 / DCA50100



**Product Type**  
High-Base Number Marine  
Cylinder Lubricant



**Engine Type**  
Low-Speed Two-Stroke Crosshead  
Marine Diesel Engines



**Feature**  
Low-Ash Formulation

PROFESSIONAL LUBRICANTS  
FOR A GLOBAL MARINE INDUSTRY

### AVAILABLE PACKAGING



170 kg Drums / IBC Containers

FLEXIBLE SUPPLY FOR YOUR BUSINESS

### TYPICAL DATA

| Test Item                       | Test Method | DCA5025 | DCA5040 | DCA5070 | DCA50100 |
|---------------------------------|-------------|---------|---------|---------|----------|
| Kinematic Viscosity @100°C, cSt | ASTM D445   | 19.11   | 10.23   | 19.54   | 19.42    |
| Viscosity Index                 | ASTM D2270  | 101     | 101     | 102     | 99       |
| Flash Point, °C                 | ASTM D92    | 258     | 255     | 254     | 256      |
| Pour Point, °C                  | ASTM D97    | -15     | -17     | -15     | -16      |
| Density @20°C, kg/l             | ASTM D1298  | 0.875   | 0.878   | 0.879   | 0.878    |

The above data are typical values of current products. Batch data may vary within the allowable quality range. Please contact your sales representative for more information.

LUBRICATION TODAY  
A CLEANER TOMORROW