

Marine High-Speed Diesel Engine Oil

Product reference: CBY-05

Diesel engine lubricant for high-speed marine engine applications.

Marine High-Speed Diesel Engine Oil

Product name

Marine High-Speed Diesel Engine Oil

Viscosity / grade

15W40

Standard reference

ACEA E7, E5, E3

API CI-4, CH-4, SL

Caterpillar ECF-1A, ECF-2

Cummins CES 20078, 20077, 20076, 20075, 20072, 20071

Global DHD-1

JASO DH-1

MTU Category 2

Product overview

15W-40 Marine High-Speed Diesel Engine Oil is a high-performance engine lubricant designed to meet the demanding requirements of a wide range of high-speed marine diesel engines operating under varied conditions. It provides triple protection for marine diesel engines to improve engine and oil durability. It is suitable for marine diesel engines burning distillate fuels with a sulfur content below 0.5%.

Performance features

- Acid corrosion control: By reducing acid accumulation, the oil limits chemical corrosion of engine bearings and provides excellent acid control. Selected detergent additives effectively neutralize harmful acids produced during fuel combustion and help prevent corrosion of metal surfaces.
- Good deposit control: Carefully optimized detergent and dispersant additive technology helps prevent oil thickening, engine sludge and piston deposits, supporting maximum marine engine reliability.
- Excellent antiwear protection: Antiwear additives maintain a protective oil film between pistons, piston rings and cylinders across different operating temperatures and pressures. Added soot dispersants keep soot particles dispersed to help prevent wear. The combination of antiwear agents and soot dispersants helps extend engine life and improve engine efficiency.

Applications

- Suitable for high-speed propulsion engines in offshore service vessels, offshore platforms, maritime patrol vessels, tugboats and high-speed boats.
- Suitable for marine engines from equipment manufacturers including Caterpillar, Cummins and MTU.
- Suitable for most modern low-emission marine engines requiring ACEA E7 and API CI-4 performance, and for

biodiesel applications. When using biodiesel, follow the OEM-recommended oil drain intervals.

Packaging

170 kg drums; IBC containers

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

Product visual and technical data

**HIGH-PERFORMANCE
HIGH-SPEED MARINE
DIESEL ENGINE OIL**

SAE 15W-40

API CI-4 / ACEA E7
Subject to verification

Reliable Protection for
High-Speed Marine
Diesel Engines.



 Acid Control
  Deposit Control
  Anti-Wear
  Soot Dispersancy

PRODUCT PERFORMANCE

-  Excellent acid neutralization and control
-  Carefully selected detergent additives
-  Effective deposit control
-  Optimized detergent and dispersant additive technology
-  Outstanding anti-wear protection
-  Advanced soot dispersancy for enhanced wear protection

**ENGINEERED FOR
HIGH-SPEED MARINE SERVICE**

-  Low-sulfur fuel applications
-  Reliable wear protection
-  Stable engine cleanliness



POWERING
TOMORROW'S OCEANS

PRODUCT DESCRIPTION

A premium engine lubricant for high-speed marine diesel engines, providing acid control, deposit management, and wear prevention. Formulated with optimized detergent and dispersant additive technology and advanced soot dispersancy to deliver dependable protection in demanding marine service environments.

*BUILT FOR A CLEANER,
MORE RELIABLE TOMORROW AT SEA.*

**ADVANCED PROTECTION
FOR DEMANDING MARINE OPERATIONS**



 Acid Control
  Deposit Management
  Anti-Wear
  Soot Control

APPLICATIONS

-  **High-Speed Marine Propulsion Engines**
Offshore support vessels, patrol vessels, speedboats, tugboats.
-  **Marine Diesel Engines from Leading Manufacturers**
For compatible engines subject to OEM requirements.
-  **Modern Low-Emission Marine Diesel Engines**
For engines requiring API CI-4 or ACEA E7 type performance characteristics.
-  **Low-Sulfur Distillate Fuel Applications / Biodiesel Applications**
Use where compatible and follow OEM drain interval guidance.

TYPICAL DATA

SAE Viscosity Grade		15W-40
Test item	Testing method	Typical data
Kinematic viscosity (100°C), mm²/s	ASTM D445	14.6
Dynamic viscosity (-20°C), mPa-s	ASTM D5293	6620
Viscosity Index	ASTM D2270	141
Density (-15°C)kg/m³	ASTM D4052	872
Flash point (open cup), °C	ASTM D93	236
Pour point, °C	ASTM D97	-40
Total Base Number, TBN, mg KOH/g	ASTM D2896	11.1
Sulfate ash, %	ASTM D874	1.42

AVAILABLE PACKAGING



170 kg Drums / IBC Containers

PETRONEX

**MARINE LUBRICATION SOLUTIONS
FOR RELIABLE ENGINE PERFORMANCE**

 Marine
  Protection
  Reliability
  Global Supply

A STRONGER OCEAN
A BRIGHTER TOMORROW