



PENRITE

# MARINE DIESEL 15W-40

## Semi Synthetic Marine Oil

Issue: September 2014



Product Code:	Pack Size:	Carton Qty:
MARD15W40005	5 Litre	4
MARD15W40020	20 Litre	1
MARD15W40205	205 Litre	1
MARD15W401000 LTR	1000 Litre	1

### Description

**Marine Diesel 15W-40** is a SAE 15W-40, semi-synthetic, mid ash marine diesel engine oil formulated with a carefully selected blend of high performance additives and a mix of mineral and synthetic base oils to provide complete protection for marine diesel engines. It exceeds the requirements of API CI-4 and ACEA E4/E7 industry standards and also meets many marine engine manufacturers' performance specifications, including long oil drain requirements.

### Application

**Marine Diesel 15W-40** is designed for use in moderate to severe service, high speed and some medium speed four stroke European, U.S. and Japanese marine diesel engines, where a 15W-40 engine oil is required. It can be used in both turbocharged and naturally aspirated engines running either low or high sulphur diesel fuel. It is especially suited to coastal and fishing fleets but can also be used in recreational craft.

**Marine Diesel 15W-40** can be used in marine engines manufactured by Caterpillar (except for 3600 series), Cummins, Iveco (except C13 ENT M77), MAN, Mercedes Benz, MTU, Perkins, Scania, Volvo and many others.

**Marine Diesel 15W-40** is formulated with additive technology that is highlighted by the inclusion of special corrosion inhibitors as well as a high TBN (Total Base Number) content, allowing it to be able to achieve long oil drain requirements while providing outstanding engine protection for the life of the oil drain. It will provide excellent start-up wear protection and resistance to oil thickening due to soot build up.

**Marine Diesel 15W-40** is also suitable for use in on- and off-highway equipment such as in agricultural, earthmoving and road transport, where the specifications meet those required by manufacturers.

**Marine Diesel 15W-40** is **NOT SUITABLE** for use in **PETROL** powered engines

### Product Benefits

- Meets long drain requirements for European, U.S., and Japanese engines
- Excellent anti-corrosion protection of engine parts
- High TBN to protect against and neutralise acid build up
- Semi-synthetic formulation
- Resists oil thickening
- Shear stable viscosity modifier maintains oil viscosity in service
- Mid ash formulation controls combustion chamber deposits especially around piston area
- Start-up viscosity protection



### Industry Specifications

API CI-4

Cummins CES 20078

MAN M3277

Volvo VDS-3

ACEA E4/E7

Detroit DDC

Mercedes Benz 228.5 (level)

Allison C4

JASO DH-1

MTU Type 3

Caterpillar ECF-1-a

Mack EO-M Plus

Renault RXD/RLD-2

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## Typical Data

Density at 15°C, kg/L	0.873
Viscosity, Kinematic, cSt	
at 40°C	112
at 100°C	15.1
Viscosity Index	141
Viscosity, Cold Cranking, cP @ -20 °C	5,372
Phosphorus, mass %	0.101
Zinc, mass %	0.112
Calcium, mass %	0.377
Sulphated Ash, Mass %	1.35
Base Number, mg KOH/g	12.6

Information in this sheet is based on recent production. Minor variations to typical properties are expected in normal manufacture and do not affect product performance. An MSDS is available on request.

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