



# MARINE D25 15W40

SEMI-SYNTHETIC LUBRICANT FOR MARINE ENGINES



### MARINE RANGE

4-STROKE ENGINE  
SEMI-SYNTHETIC  
SAE 15W-40

Mineral

Semi-synthetic

Full synthetic

### STANDARDS & SPECIFICATIONS

ACEA 2022 : E11, E7  
API CK-4, SN  
MAN M 3775 / M 3575  
DTFR 15C100  
VOLVO VDS-4.5

Engine cleanliness

Oxidation resistance

Shear stability



## APPLICATIONS

**MARINE D25 15W40** is a 'Low Saps' oil to meet the most stringent requirements of the latest naturally aspirated and turbocharged 4-stroke marine diesel engines.

**MARINE D25 15W40** is particularly suitable for 4-stroke engines with **DPF** (particulate filter) and is recommended for the latest generation of engines that comply with EURO V, EURO VI and Tier 4 standards

**MARINE D25 15W40** meets the requirements of manufacturers such as Hyundai, Perkins, Nanni, Volvo Penta and more

**MARINE D25 15W40** has a TBN of 10 mg KOH

## BENEFITS

**MARINE D25 15W40** has the following benefits:

- Great anti-wear protection,
- Unmatched piston cleanliness,
- Remarkable protection from liner polishing,
- Compatible with post-treatment systems: EGR, SCR, DPF, etc.

## PERFORMANCES

### PERFORMANCE LEVELS

ACEA 2016 : E9, E7  
ACEA 2022 : E11, E7  
API CK-4 / SN

CAT ECF 3  
CUMMINS CES 20086  
DEUTZ DQC III-18 LA  
MAN M 3775 / M 3575 / M 3275  
MB 228.31  
DTFR 15C100  
MTU Type 2.1  
VOLVO VDS-4.5

OPAL  
7W  
7W  
OPAL  
7W  
7W



## CHARACTERISTICS

CHARACTERISTICS	UNITS	METHODS	TYPICAL DATA
SAE grade	-	-	15W-40
Density at 20°C	-	NF T 60-101	873
Kinematic viscosity at 40°C	mm <sup>2</sup> /s	NF T 60-100	106.6
Kinematic viscosity at 100°C	mm <sup>2</sup> /s	NF T 60-100	14.34
Viscosity index	-	NF T 60-136	137
Dynamic viscosity at -20°C	mPa.s	ASTM D 5293	4,693
Pour point	°C	NF T 60-105	-39
Sulphated ash content	% weight	NF T 60-143	1.0
Phosphorus content	% weight	ASTM D 5185	0.09
Sulphur content	% weight	ASTM D 5185	0.30
TBN	mg KOH/g	ASTM D 2896	10

*The typical data provided are only approximate values*

## HEALTH, SAFETY AND ENVIRONMENT

Disposal must comply with applicable regulations pertaining to the disposal of used oils.

**Store in a sheltered area.**

Our technical department is available to provide advice if needed.