

## TECHNICAL DATA SHEET

# MARINE 3012

### High Quality Marine Engine Oil

#### DESCRIPTION

Engine oils specifically developed for heavy-duty medium speed diesel engines found in marine applications. It is a high quality multifunctional crankcase lubricant which is formulated to protect the engine and allow long drain intervals through low oxidation and a high base number.

#### APPLICATION & USE

It is applied to medium speed diesel engines which operate on high sulfur fuels like marine diesel engines, industrial engines, and auxiliary engines. This product should be used only in engines operating with fuels having a sulphur content of less than 1%.

#### KEY BENEFITS

Oxidation Resistance  
Good Wear Protection  
High Base Number

#### SPECIFICATION

API: SD / CF, ACEA: E2, DIESEL S3

CHARACTERISTICS	METHOD	UNIT	RESULTS
			Marine 3012
Density 15°	ASTM D-1298	KG/L	0,890
Viscosity at 40°	ASTM D-445	cSt	90
Viscosity at 100°	ASTM D-445	cSt	11
Viscosity Index	ASTM D-2270	-	109
Pour Point	ASTM D-97	°C	-19
Flash Point C.O.C	ASTM D-92	°C	240
TBN	ASTM D-2896	Mg KOH/g	12