

## Athen Marine 15W-40

Premium Quality Marine Engine Oil

### Product Description

**Athen Marine 15W-40** is premium quality marine engine oil developed to meet the performance requirements of modern turbocharged and naturally aspirated marine diesel engines operating on distillate diesel fuel under severe conditions.

### Features & Benefits

- ➔ **Outstanding Piston Cleanliness:** Free-running piston rings, even under difficult conditions
- ➔ **Unique Engine Cleanliness:** Ability to retain high levels of soot safely in suspension, even with extended drain intervals
- ➔ **Better Oxidation Resistance:** Usually, good thermal stability and oxidation resistance
- ➔ **Excellent anti-wear properties:** Maintain a protective oil film between pistons and their rings and cylinder walls, under high operating temperature and pressure.

### Applications

- ➔ Modern turbocharged and naturally aspirated 4-stroke medium and high-speed propulsion engines, like coastal vessels, Fishing trawlers, rescue boats, tugboats, and high-speed generator engines
- ➔ Turbocharged and naturally aspirated diesel engines are used in on-highway and off-highway applications (mining, construction, agriculture), including those fitted with EGR systems and meeting US 2004 emission norms introduced in 2002, requiring oils meeting specifications given below.

Athen Marine 15W-40		
Performance level meets/exceeds	API CI-4/SL, Jaso DH-1, Caterpillar ECF-1-a, MB: 228.3, Detroit Diesel 93K215, Deutz DQC-III-10, MAN M3275-1	
Test Parameters	ASTM Method	Typical Values
Viscosity @ 100°C, cSt	D 445	15.0
Viscosity Index	D 2270	135
Flash Point, °C	D 92	230
Pour Point, °C	D 97	-36
BN, mg KOH/g	D 2896	10
Density @ 15°C, kg/l	D 1298	0.88
Dynamic Viscosity @ -20°C	D 5293	<7000

*"Data provided in this PDS is based on standard tests under laboratory conditions and is indicative only. Minor variations that do not affect product performance are expected in normal manufacturing. This product should not be used for any purpose other than those expressly set out in this PDS"*