

Trunk Piston Engine Oil

Premium Mineral Technology

# RAK MARINE ULTRA

## PRODUCT DESCRIPTION:

RAK Marine Ultra is ultimate performance multi-grade diesel engine oil for use in the most severe fishing boats and marine applications. It is specially engineered for protection of modern, high- output, high speed four stroke marine engines including those fitted with turbocharged engines running on low sulphur diesel or conventional high sulphur diesel fuel. Highly recommended for all heavy duty marine diesel engine applications, especially continuous long hour services of deep sea fishing boats with Class-C license operating on Cummins, Caterpillar, Volvo, Perkins, Hino, Mitsubishi, Nissan, Daihatsu, Yanmar and other original equipment manufacturers.

## Applications:

Highly recommended for use in high performance marine diesel engine applications especially heavy duty fishing boats for deep-sea and coastal operations. It is also recommended for use in generator sets and other diesel engines applications on shore.

## Features:

- Exceed all main American, Japanese, and European OEMs and Fishing Industry specifications
- Excellent performance with extended oil drains intervals on high performance fishing boat engines
- Excellent soot dispersancy to prevent deposits on critical engine mechanism and provide excellent protection from soot induced wear
- Outstanding Reserve Alkalinity maintenance effectively extends drain interval capability
- Outstanding thermal and oxidation stability that minimized low temperature sludge build-up and high temperature deposits

## Meets and Exceeds Performance Levels:

- API: CI-4
- ACEA E7/A3/B3/B4
- Global DHD-1
- Cummins CES 20077/20078
- Cat ECF-2/ECF- 1a
- MB 228.3
- Volvo VDS-3
- MAN 3275
- MTU Type 2
- MACK EO-M Plus

## Typical Properties:

PARAMETERS	TEST METHOD	UNIT	RAK MARINE Ultra
<b>Grade</b>			15w-40
<b>Kinematic Viscosity @ 104°F /40°C</b>	ASTM D-445	cSt	106
<b>Kinematic Viscosity @ 212°F /100°C</b>	ASTM D-445	cSt	14.8
<b>Viscosity Index (min)</b>	ASTM D-2270	-	144
<b>SP. Gravity @15°C/ 60°F</b>	ASTM D-4052	g/cm <sup>3</sup>	0.870
<b>Flash Point (min)</b>	ASTM D-92	°C	226
<b>Pour Point (max)</b>	ASTM D-97	°C	-34
<b>TBN</b>	ASTM D-2896	Mg KOH/g	10

## HEALTH & SAFETY, ENVIRONMENT:

Prolonged and repeated contact with oil may cause skin disorders. Avoid contact. Wash immediately with soap and water. Do not discharge used oil in to drains or the environment. Dispose to an authorized used oil collection point. For further Information on Safety Guidelines please refer to MSDS available on our website