

**CRUZE M 30 / M 40**  
ECO FORMULA

**Product Definition**

CRUZE M is a lower alkaline reserve (12 Base Number) trunk piston engine oil (TPEO).

CRUZE M is designed for use in mediumspeed trunk piston engines burning distillate fuels with sulfur content up to 1.5% in marine or stationary service.

**Application/Usage**

- Medium-speed trunk piston engines burning distillate fuels in marine main and auxiliary powerplant service.
- Medium-speed trunk piston engines burning distillate fuels in stationary powerplant service.

**Advantages/Benefits**

The detergent/dispersant additive system provides control of high temperature deposits in areas such as the under crown of the piston and the piston ring belt area, enabling piston rings to function efficiently.

Base Number (BN) level and superior alkalinity retention characteristics maintain sufficiently high BN under all service conditions to ensure corrosive acids formed by the combustion of fuel sulfur are effectively neutralized, thereby minimizing liner wear.

Excellent water separation characteristics enable water to be centrifuged out with essentially no loss of additive.

**Specifications/Approvals**

API SE/CF,CD, MIL-L-2104 E

**Product Package**

208 Lt - 20Lt - 4Lt - 1Lt.

**Storage**

Protect from direct sunlight and rain. Store in the original closed drums and in covered areas. Storage temperature must be between (+5)-(+40)°C.

**Health and Safety**

This product is unlikely to present any significant health or safety hazard when properly used in the recommended application. Used or waste product should not be allowed to contaminate soil or water. Used or waste product should be disposed of in accordance with local regulations. For further guidance on product Health and Safety refer to the appropriate Material Safety Data Sheet.

TECHNICAL PROPERTIES	UNIT	TEST VALUES		TEST METHOD
SAE Grade		30	40	DIN 51 511
Density 15°C		0.885	0.885	ASTM D-1298
Viscosity 40°C	mm <sup>2</sup> /s	102.05	143.15	ASTM D-445
Viscosity 100°C	mm <sup>2</sup> /s	11.50	14.5	ASTM D-445
Viscosity Index		100	100	ASTM D-2270
Flash Point	°C	225	230	ASTM D-92
Pour Point	°C	-20	-20	ASTM D-97
Base Number	mgKOH/g	13	13	ASTM D-2896B

"The above information is derived from our quality checks. Given values are typical of current production. While future production will conform to our specification, variations in these characteristics may occur. Quality Control Analysis Report for to learn properties of the product that is supplied can give. It does not relieve the purchaser from examining product upon delivery and gives no assurance of the product for any particular purpose. Due to continual product research and development, the information contained herein is subject to change without notification."