

MARINA 12 series

Description

High performance diesel engine oils developed for use in trunk piston engines operating on low sulphur distillate fuels in marine and industrial applications. They are formulated to have excellent resistance to oxidation and viscosity increase over a long period of service. MARINA 12 Series has superior water separating properties and provide excellent corrosion protection.

Application

MARINA 12 series is intended for use as cylinder and bearing lubricant in marine and industrial diesel engines operating on distillate fuels or light fuel blends. It is particularly effective in small bore, high speed engines in fishing fleets, in new, severe service engines, and in many types of medium speed engines. They can be used as crankcase lubricants in large crosshead type diesel engines operating on high sulphur fuels. Occasionally recommended by some builders as running-in oil for crosshead type engines.

Operation Characteristics

- Excellent thermal and oxidation stability
- Improved antiwear properties
- Excellent TBN reserve and retention
- Excellent detergency/dispersancy properties
- Extended periods between inspections, overhaul and cleaning
- Increased protection against corrosive wear

Specifications, Approvals, Recommendations

API CF

Typical Physical Characteristics

	ASTM	1230	1240	1250
SPECIFIC GRAVITY (kg/l)	D 1298	0,890	0,892	0,897
VISCOSITY AT 40°C (cSt)	D 445	106	135	208
VISCOSITY AT 100°C (cSt)	D 445	11,5	13,5	18
TBN	D 2896	12	12	12
FLASH POINT (°C) min.	D 92	230	245	260
POUR POINT (°C)	D 97	-15	-15	-15

These are typical values. Small variation should be expected for future productions / blendings.

Health, Safety and Environmental Protection

It is unlikely to cause any significant problem to the health or safety of the user when used properly, according to the typical handling of lubricating and usual personal hygiene practices. The used lubricants must be recycled in accordance with applicable legislation and placed in approved collection points. Do not discharge into drains, soil or water / sea. Always follow the instructions of the safety data sheet.