



Protector MLS Series Medium-High Speed Marine Diesel Engine Oils

PRODUCT DESCRIPTION

PROTECTOR MLS products are diesel marine engine oils designed for diesel fuel using, medium or high speed trunk piston engines. High quality mineral base oils and special additive packages have been used in the exclusive formulation. In addition to its normal usage areas, it can also be used as cylinder oil at crosshead engines.

ADVANTAGES

- Protect their properties at high temperature and pressure due to its high TBN value.
- Prevent the formation of deposits due to special detergent and dispersant additives.
- Keep engine clean and minimize detrimental effects of burning of Sulphur inside of fuel.
- Extend engine life with oxidation and corrosion preventing features.
- Possess improved water and dirt remove features.

APPROVALS AND SPECIFICATIONS

- API CF

CHARACTERISTIC PROPERTIES

Analysis	Unit	Analysis Method	Typical Values	
			MLS 3015 SAE 30	MLS 4015 SAE 40
Density, 15° C	g/cm ³	ASTM D 4052	0,8962	0,8945
Viscosity, 40° C	cSt	ASTM D 445	97,94	142,3
Viscosity, 100° C	cSt	ASTM D 445	11,22	14,26
Viscosity Index	-	ASTM D 2270	98	97
Pour Point	°C	ASTM D 97	-18	-15
Flash Point	°C	ASTM D 92	228	248
TBN	mg KOH/g	ASTM D 2896	15,1	15,2

All the information and figures mentioned above are typical of those obtained with normal production tolerance and verified with quality control test results.

ADDITIVE INFORMATION

Package

- 180 kg
- IBC
- Bulk

Storage

- Packages should be stored in cool, well-ventilated and covered areas; and their taps should be tightly closed and sealed when not in use.
- Packages should not be exposed to direct sunlight and avoid rapid climatic changes.
- Ambient temperature should not exceed 60 °C.

Health and Safety

Based on the available information, PROTECTOR MLS SERIES are not expected to produce adverse effects on health when used for the intended application and aligned with the recommendations provided in the; "Material Safety Data Sheet" (MSDS). MSDS's are available upon request through your sales contact office or representative.

When disposing the used product, physical and chemical properties have to be taken into the consideration, and please follow the regional or national regulations.

ATAK MADENİ YAĞ PAZ. SAN. VE TİC. A.Ş.

Headquarters : Yeşilköy Mah. Atatürk Cad. EGS Business Park B2 Blok Kat: 10 34149 Bakırköy-İstanbul/TURKEY

T: +90 212 463 6060 F: +90 212 465 3855

Production Facility : A.O.S.B. 10032 Sok. No: 13 35620 Çiğli-İzmir/TURKEY T: +90 232 328 3128 F: +90 232 328 3025

www.alpetlubricants.com info@atakoil.com