



## PROTECTOR MLX Series

### Medium-Speed Marine Diesel Engine Oils

#### PRODUCT DESCRIPTION

PROTECTOR MLX is a range of diesel engine oils formulated with the combination of high quality base oils and special additive packages and developed for use in medium speed diesel marine engines and power generation systems. Specifically designed to overcome the problems that can occur when used low quality fuels with high ratio of Sulphur at trunk piston and crosshead type diesel marine engines. They perform better than conventional diesel engine oils in low oil consuming engines and in situations when there is doubt of fuel contamination in the crankcase oil.

#### ADVANTAGES

- The high TBN value neutralize the acidic wastes resulting from the burning of fuels with high Sulphur ratio.
- Provides excellent engine cleaning in marine diesel engines using fuel with different sulfur ratios, by offering a variety of products with different TBN values.
- Minimizes deposit formation by resisting pollution generation.
- Reduces maintenance and operating costs by extending oil change intervals and reducing oil consumption.
- High oxidation stability extends engine life.
- Provides effective protection against rust and corrosion.

#### APPROVALS AND SPECIFICATIONS FOR

- API CF

#### CHARACTERISTIC PROPERTIES

Analysis	Unit	Analysis Method	Typical Values		
			MLX 3030 SAE 30	MLX 4030 SAE 40	MLX 4040 SAE 40
Density, 15°C	g/cm <sup>3</sup>	ASTM D 4052	0,9031	0,9080	0,9123
Viscosity, 40°C	cSt	ASTM D 445	91,72	142,4	137,1
Viscosity, 100°C	cSt	ASTM D 445	10,88	14,35	14,11
Viscosity Index		ASTM D 2270	100	97	98
Pour Point	°C	ASTM D 97	-15	-15	-18
Flash Point	°C	ASTM D 92	218	230	236
TBN	mg KOH/g	ASTM D 2896	30	30	40

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

## ADDITIONAL 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 MLX 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](http://www.alpetlubricants.com) [info@atakoil.com](mailto:info@atakoil.com)