

## Energol DL-MP

### Multi-Purpose Diesel Engine Lubricant

#### Description

Energol DL-MP is an alkaline multi-purpose marine diesel engine oil.

#### Application

Energol DL-MP is recommended for the crankcase lubrication requirements of medium speed trunk piston engines operating with ISO 8217 type DMA/DMB distillate fuels. Energol DL-MP 30 may also be applied as a crosshead engine system oil and has the necessary performance for the latest 'camless' designs. Energol OE-HT 30 however remains the first choice system oil for crosshead engines.

#### Main Performance Features

- Detergency/dispersancy characteristics ensuring a high level of engine crankcase cleanliness. Meets API CD performance level.
- High thermal and oxidation stability for superior piston cooling performance.
- Alkalinity to neutralise the acidic products of combustion.
- Excellent water rejection performance in centrifuges.
- Improved load-carrying performance to FZG fail load stage (FLS) 12.

#### Approvals

Energol DL-MP is fully approved by major engine manufacturers world-wide.

#### Care and Handling

It is recommended that Energol DL-MP is continuously centrifuged and/or filtered in accordance with manufacturers' instructions. Manufacturers' oil change intervals should be observed.

#### Packaging and Storage

Supplied in bulk and drums of approximately 210 litres.

Where outdoor storage is unavoidable, drums should be covered.

The drums should be stored in such a way as to ensure they are not damaged and grade markings are not obliterated. They should be positioned horizontally so as to prevent water collecting on drum ends.

Ensure drums are tightly re-sealed after use.

## Typical Characteristics

	Unit	Test Method	DL-MP 30	DL-MP 40
SAE Number			30	40
Kinematic Viscosity @ 100°C	mm <sup>2</sup> s <sup>-1</sup>	ASTM D445	11.5	14.0
Base Number (BN)	mgKOH/g	ASTM D2896	9	9
Density @ 15°C	kg/m <sup>3</sup>	ASTM D4052	890	890
Flash Point (PMC)	°C	ASTM D93	>200	>200
Pour Point	°C	ASTM D97	-9	-9

The above figures are typical of those obtained with normal production tolerances, and do not constitute a specification. Note 1 mm<sup>2</sup> s<sup>-1</sup> = 1 cSt.

## General Advice

Further information on all BP Marine lubricants is available from any BP Marine office or from:

BP Marine [www.bpmarine.com](http://www.bpmarine.com)

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