

Energol CL-DX 405

Description

The name CL-DX 405 stands for **C**ylinder **L**ubricant – **D**etergency **eX**tra – 40BN, SAE 50

Energol CL-DX 405 is a superior marine diesel engine cylinder lubricant for two-stroke crosshead engines running on low-sulphur fuels (such as will be required for the forthcoming 'Emission Control Areas' designated by IMO).

Application

Energol CL-DX 405 is a 40 BN cylinder lubricant for the following applications : Prolonged operation on low-sulphur fuel (distillate or heavy fuel < 1.5% Sulphur content), In-service running-in (distillate or heavy fuel), Sea trials and Test bed breaking-in.

Main Performance Features

- Excellent control of piston ring and cylinder liner wear.
- Superior detergency performance for engine cleanliness.
- Ensures reduced deposits, especially calcium carbonate.
- Tolerant of high feed-rate with high margin of safety against deposit.
- Prolonged operation on low-sulphur fuel without scuffing..

Approvals

Energol CL-DX 405 meets the exact requirements of MAN B&W for prolonged operation on low sulphur fuel and carries this engine designers approval. Having been tested by Sulzer and received a no-objection, Energol CL-DX 405 is now approved in all their slow speed engines burning heavy fuel oil with a sulphur content in the range 0.5% to 1.5%.

Care and Handling

It is recommended that the mixing of different suppliers' cylinder oils be avoided. In situations where this may not be possible it is recommended that you contact your local BP Marine representative for further advice.

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

		Test Method	Units	CL-DX 405
SAE Number				50
Kinematic Viscosity	100°C	ASTM D445	mm ² s ⁻¹	19.5
Base Number (BN)		ASTM D2896	mgKOH/g	40
Density	15°C	ASTM D1298	kg/m ³	920
Pour point		ASTM D97	°C	-9
Flash Point (PMC)		ASTM D93	°C	>190

The above figures are typical of those obtained with normal production tolerances, and do not constitute a specification. Note 1 mm² s⁻¹ = 1 cSt.

Health, Safety and Environment

Health, safety and environmental information is provided for this product in the Material Safety Data Sheet. This gives details of potential hazards, precautions and First Aid measures, together with environmental effects and disposal of used products.

The British Petroleum Company plc or its subsidiaries will not accept liability if the product is used other than in the manner or with the precautions or for the purpose/s specified. Before the product is used other than as directed, advice should be obtained from the local BP office.

General Advice

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

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