



Energol CL-DX 405

Crosshead engines cylinder lubricant

Description

Energol CL-DX 405 is a 40 BN superior performance marine diesel engine cylinder lubricant with excellent anti-wear and detergency performance designed for use with low sulphur marine fuel.

Application

Energol CL-DX 405 is suitable for use in two-stroke crosshead engines operating for prolonged periods on low sulphur fuel (distillate or residual fuel below 1.5% sulphur). In many cases it is able to tolerate fuels with up to 2% sulphur. Corrosion sensitive engines should select higher BN oils, especially for prolonged operation using fuels above 2% sulphur.

Energol CL-DX 405 has been uniquely formulated to maintain low wear rates and high levels of cleanliness on pistons, piston rings and liners.

Energol CL-DX 405 is also suitable for use during in-service running-in, sea trials and test bed trials.

Approval

Energol CL-DX 405 meets the requirements of MAN and Wärtsilä for prolonged operation on low sulphur fuel. Please refer to the appropriate engine manufacturer for specific application details.

Main Performance Features

- Excellent control of piston ring and cylinder liner wear.
- Enhanced detergency performance for superior engine cleanliness.
- Ensures reduced deposits when operating on low sulphur fuels.
- Minimises the risk of cylinder liner scuffing during prolonged operation on low sulphur fuel.

Typical Characteristics

Name	Method	Units	CL-DX 405
SAE Number			50
Kinematic Viscosity @ 100°C	ASTM D445	mm ² /s	19.5
Base Number BN	ASTM D2896	mg KOH/g	40
Density @ 15°C, Relative	ASTM D1298	g/ml	0.918
Flash Point, PMC	ASTM D93	°C	>190
Pour Point	ASTM D97	°C	-9

The above figures are typical of those obtained with normal production tolerance and do not constitute a specification.

Packaging and Storage

Supplied in bulk and drums of approximately 210 litres. Ensure drums are tightly re-sealed after use.

All packages should be stored under cover. Where outside storage is unavoidable drums should be laid horizontally to avoid the possible ingress of water and the obliteration of drum markings.

Products should not be stored above 60°C, exposed to hot sun or freezing conditions.

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