



## HLX Range

Diesel engine lubricants

### Description

Castrol HLX is a Super High Performance Diesel (SHPD) lubricant, specially formulated to meet the latest performance requirements of marine monograde lubricant specifications. This allows extended drain periods to effectively compete with performance normally associated with synthetic oils. HLX is available in both SAE 30 and 40 viscosity grades.

### Application

HLX, positioned at the top of the Castrol range of mineral based diesel engine lubricants, is formulated for use in very highly rated high speed marine and power generation diesel engines that use distillate fuel with sulphur from zero up to 1% and require extreme performance. It is particularly suitable for high power density applications such as fast ferries.

### Advantages

HLX uses premium additive technology blended in high quality, high viscosity index base oils. It provides high detergency and excellent thermal and oxidative stability required to lubricate today's most severe diesel engine applications.

In summary, HLX can enable:

- Extended oil drain intervals compared to other API CF oils.
- Excellent high temperature performance.
- High resistance to bore polishing.

### Product Performance Claims

HLX 30 and HLX 40 are approved by all the major OEM's, including approval as a `Type 2` MTU monograde lubricant, that allows oil drain intervals to be doubled compared to standard marine oils.

HLX additive technology exceeds API CF and ACEA E3 - tested to MB 228.2, MAN M3275 and Volvo VDS-2.

## Typical Characteristics

Name	Method	Units	HLX 30	HLX 40
SAE Grade			30	40
Density @ 15°C	ASTM D4052	g/ml	0.9	0.9
Viscosity @ 100°C	ASTM D445	mm <sup>2</sup> /s	11.5	14.0
Base Number	ASTM D2896	mg KOH/g	12	12
Closed Flash Point	ASTM D93	°C	225	228
FZG	CEC L-07-A-95	Failure load stage	11	11

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

## Storage

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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