

PRODUCT & TECHNICAL DATA

CASTROL TLX PLUS RANGE

Diesel engine lubricants

DESCRIPTION

TLX Plus is formulated using high quality base oils, and supersedes the previous TLX series by incorporating a unique formulation of additive technology systems designed to overcome the adverse conditions seen in low oil consumption engines operating with varying heavy fuel qualities.

APPLICATIONS

TLX Plus is a range of engine oils developed for use in medium speed diesel engines in marine propulsion and power generation applications.

TLX Plus is available with 20, 30, 40 or 50 BN, and SAE 30 and 40 viscosity grades to suit differing fuel sulphur contents and engine builders' requirements. Approved grades of BN 55 and higher can also be made available on demand.

FEATURES/BENEFITS

Extensive severe field testing in heavy fuel burning engines has confirmed that TLX Plus is suitable for use in the most demanding highly rated turbocharged medium speed diesel engines. It excels in all the performance requirements demanded of a truly high quality lubricant:-

- Exceeds API CF specification.
- Superior wear performance.
- Improved thermal & anti-oxidation stability.
- Anti-rust against salt water (as tested by IP 135B).
- High load carrying properties of FZG 11 for anti-wear performance.
- Excellent anti-foam properties.
- Tolerant to water contamination.
- Cleans and protects the engine whilst performing well in used oil analysis trends (by improved ability to release dirt and water in purifier centrifuges).

The main advantage of TLX Plus is its ability to overcome the problems experienced by conventional oils in low oil consumption engines operating on low quality heavy fuels and with possible fuel contamination of the crankcase oil.

Fuel contamination can result in the formation of black asphaltenic sludge in the crankcase, deposits in piston scraper rings, ring belt, and critically in the piston cooling cavities. TLX Plus has a significantly improved capability to handle asphaltenic contaminants, which will lead to cleaner engines and much reduced piston deposits to achieve safely extended overhaul intervals. It is significantly advanced in its piston ring belt and under-crown cleanliness performance.

The TLX Plus range includes grades of 50BN and higher for use when rapid base number depletion is experienced in low oil consumption engines. These particular grades will further increase the time between oil drain intervals.

APPROVALS STATUS

The TLX Plus range of oils hold approvals from all major medium speed engine manufacturers.

CARE AND HANDLING

Avoid prolonged or repeated contact with skin. Wash thoroughly after handling.



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PACKAGING AND 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.

TECHNICAL DATA

TYPICAL CHARACTERISTICS	UNIT	TEST METHOD	VALUE	VALUE	VALUE	VALUE	VALUE	VALUE	VALUE	VALUE
TLX Plus			203	204	303	304	403	404	504	554
SAE Grade			30	40	30	40	30	40	40	40
Density @ 15°C	g/ml	ASTM D4052	0.90	0.90	0.90	0.91	0.91	0.91	0.92	0.92
Viscosity @ 100°C	cSt	ASTM D445	11.5	14.0	11.5	14.0	11.5	14.0	14.0	14.0
Base Number	mgKOH/g	ASTM D2896	20	20	30	30	40	40	50	55
Closed Flash Point	°C	ASTM D93	>200	>200	>200	>200	>200	>200	>200	>200
Pour Point	°C	ASTM D97	-6	-6	-6	-6	-6	-6	-6	-6

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

GENERAL ADVICE

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

Castrol Marine www.castrolmarine.com
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