



Product Data

Castrol's TLX Range

Forward to extended engine protection even under extreme conditions.

Description

Castrol TLX lubricant range are high performance diesel engine oils for use in marine medium speed 4-stroke engines and stationary power applications operating on residual fuel. Castrol TLX is produced using highly refined base oils and advanced additive technology

The TLX range meets all the requirements demanded from a high-quality lubricant. As demonstrated in extensive field testing, the range has shown excellent and robust performance – even under the most extreme conditions (high load, high sulphur fuel, low lubricant oil consumption, and low system oil volumes). The selected dispersant and detergent system effectively control fuel contaminants and promotes engine cleanliness.

Application

The TLX range is available in 20, 30, 40 and 53 BN suitable for use in engines operating on a wide range of fuels; ULSFO, VLSFO, HSFO, including dual fuel engines switching between residual fuel and LNG.

Available in both SAE 30 and SAE 40 viscosity grades to suit engine builders' requirements, the Castrol TLX range is specifically developed for use in modern marine medium speed propulsion engines and auxiliary power generation.

The range is also suitable for land based stationary power generation applications operating under high engine load running on high sulphur fuel.

Advantages

Engine protection - excellent wear and corrosion protection for cylinder liners, pistons, rotating components, and bearings, ensuring reliable service operation to maximise the time between maintenance intervals.

Excellent cleanliness, even under extreme conditions - high detergency performance protects against deposit accumulation in critical areas such as the piston undercrown, cooling galleries, the piston ring belt area, and the engine crankcase.

Effective oil treatment properties - removal of contamination, oil sludge and water during purification and filtration helps keep the oil in optimum condition and protects the engine from corrosion and wear.

Robust thermal and oxidative stability – protects against lube oil degradation, oil thickening and deposit formation.

TLX 5-40 is a 53BN grade specifically for use in high sulphur residual fuel marine and power station applications. The higher base number helps to maximise the time between refreshment and oil drain intervals.

Castrol TLX is formulated and proven in field testing to offer protection under demanding service conditions. This includes high load in combination with high sulphur fuel and low lubricating oil consumption.

Protects cylinder liners from excessive wear and bearings from corrosion, whilst the carefully selected detergent and dispersant system maintains engine cleanliness in service.

Typical Characteristics

Name	Method	Units	TLX 2-30	TLX 2-40	TLX 3-30	TLX 3-40	TLX 4-40	TLX 5-40
Viscosity @ 100C	ASTM D445	cSt	11.5	14.0	11.5	14.0	14.0	14.0
Total Base Number, TBN	ASTM D2896	mg KOH/g	20	20	30	30	40	53
Density @ 15C, Relative	ASTM 1298	g/ml	0.90	0.90	0.90	0.90	0.90	0.90
Flash Point Pensky-Martens	ASTM D93	°C	>200	>200	>200	>200	>200	>200
Pour Point	ASTM D97	°C	-23	-18	-21	-21	-15	-20
Viscosity Index	ASTM D2270	None	102	99	104	101	103	105
SAE Grade	-	-	30	40	30	40	40	40
FZG Gear Failure Load Stage (A/ 8.3/90)	DIN 51354		11	11	11	11	11	11

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

Additional Information

The TLX range has been awarded no objection letters by the major medium speed engine manufacturers including, but not limited to; Wartsila, Everllence and MaK.

For full listing of equipment approvals and recommendations, please consult your local Castrol sales or technical representative.

Compatibility has been assessed across all grades of Castrol engine oils. Users should adhere to changeover guidelines (TB5909) and OEM recommendations on mixing.

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 60C, exposed to hot sun or freezing conditions.

Castrol's TLX Range

12 Sep 2024

Castrol, the Castrol logo and related marks are trademarks of Castrol Limited, used under licence.

This data sheet and the information it contains is believed to be accurate as of the date of printing. However, no warranty or representation, express or implied, is made as to its accuracy or completeness. Data provided is based on standard tests under laboratory conditions and is given as a guide only. Users are advised to ensure that they refer to the latest version of this data sheet. It is the responsibility of the user to evaluate and use products safely, to assess suitability for the intended application and to comply with all applicable laws and regulations. Safety Data Sheets are available for all our products and should be consulted for appropriate information regarding storage, safe handling, and disposal of the product. No responsibility is taken by either BP plc or its subsidiaries for any damage or injury resulting from abnormal use of the material, from any failure to adhere to recommendations, or from hazards inherent in the nature of the material. All products, services and information supplied are provided under our standard conditions of sale. You should consult our local representative if you require any further information.

Castrol Marine, Technology Centre, Whitchurch Hill, Pangbourne, Reading RG8 7QR, United Kingdom

www.castrol.com/marine