



TARO[®] SPECIAL HT LS 40

SAE 50

PRODUCT DESCRIPTION

Taro[®] Special HT LS 40 is a high performance 40 BN SAE 50 cylinder lubricant particularly intended for lubricating the cylinders of the latest generation slow-speed engines using low sulphur fuel and operating at very high mechanical and thermal loads reaching up to 160 bar in maximum cylinder pressure and up to 270 degrees Celsius in liner temperature at top dead center.

CUSTOMER BENEFITS

Taro Special HT LS 40 delivers value through:

- **Wear protection** — Protects against excessive cylinder liner and piston ring wear, thus allowing prolonged service intervals.
- **Detergent/dispersant properties** — Prevents ring sticking and minimizes deposit formation throughout the combustion chamber areas.
- **Excellent lubrication properties** — Maintains an oil film under severe, high load conditions, thereby reducing frictional wear and preventing scuffing of liners, pistons and rings.
- **Storage stability** — Completely stable at all ambient temperatures. Will not separate or deteriorate in long-term storage.
- **Compatibility** — Fully miscible and compatible with alkaline cylinder lubricants generally known to the international marine trade.

FEATURES

Taro Special HT LS 40 is blended from highly refined, paraffinic base oils and carefully selected additives to provide superior ring and liner wear protection and excellent piston cleanliness in slow-speed crosshead engines. Taro Special HT LS 40 has been developed specifically for high-pressure and high-temperature applications.

Product(s) manufactured in the USA and El Salvador.

Always confirm that the product selected is consistent with the original equipment manufacturer's recommendation for the equipment operating conditions and customer's maintenance practices.

A **Chevron** company product

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APPLICATIONS

Taro Special HT LS 40 is recommended for the cylinder lubrication of all slow-speed marine diesel engines continuously using low sulphur fuel and operating at high specific power outputs and high thermal loads. Running on low sulphur fuel requires the reduction of base introduced into the cylinder. This can be achieved by optimizing the oil feed rate or selecting a diesel cylinder lubricant with a lower base number.

Taro Special HT LS 40 has been approved by **MAN Diesel & Turbo** and **Wärtsilä**.

TYPICAL TEST DATA

SAE Grade	50
<i>Product Number</i>	235018
<i>SDS/MSDS Number</i>	
USA	22635
El Salvador	TBD
API Gravity	22.3
Viscosity, Kinematic	
cSt at 40°C	230
cSt at 100°C	20.0
Viscosity Index	100
Flash Point, °C(°F)	270(518)
Pour Point, °C(°F)	-15(+5)
Sulfated ash, mass %	5.1
Base Number, ASTM D2896	40

Minor variations in product typical test data are to be expected in normal manufacturing.

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