



SLOW-SPEED ENGINE OILS

Taro[®] Special HT LS 40**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 (<1.5 to 2 wt% sulphur) 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.

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.

Typical Characteristics

SAE Viscosity Grade	50
Code	001351
Base number, mgkOH/g	40
Density at 15°C, kg/l	0.92
Flash point, COC, °C	270
Pour point, °C	-15
Sulphated ash, mass %	5.1
Viscosity, kinematic, mm ² /s (cSt)	
at 40°C	247
at 100°C	21.0
Viscosity index	100

Recommended Uses

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 and Wärtsilä.

Performance Benefits**1. Wear Protection**

Protects against excessive cylinder liner and piston ring wear, thus allowing prolonged service intervals.

2. Detergent/Dispersant Properties

Prevents ring sticking and minimizes deposit formation throughout the combustion chamber areas.

3. Excellent Lubrication Properties

Maintains an oil film under severe, high load conditions, thereby reducing frictional wear and preventing scuffing of liners, pistons and rings.

4. Storage Stability

Completely stable at all ambient temperatures. Will not separate or deteriorate in long-term storage.

5. Compatibility

Fully miscible and compatible with alkaline cylinder lubricants generally known to the international marine trade.