



MEDIUM-SPEED ENGINE OILS

Taro[®] 50 XL**Description**

Taro 50 XL is a high-performance, high-alkaline, diesel engine oil for medium-speed trunk piston diesel engines. Taro 50 XL is specially developed to use in medium-speed trunk piston diesel engines burning residual fuels with a maximum sulphur level of 4.5%. Taro 50 XL is blended from high-quality base oils and additives that provide an extra margin of protection against ring sticking, piston deposits and wear under the most severe operating conditions. Taro 50 XL has very good viscosity control when used in severe high-temperature service, and its excellent alkalinity retention characteristics prevent corrosive wear over long periods of operation. The unique detergent and dispersant additive system provides outstanding piston cleanliness as well as control of fuel contaminants. This results in extreme reduction of both "hot" (piston lands and grooves, piston undercrown, purifier preheaters) and "cold" (crankcase, cambox, rocker area, fuel pumps, purifier bowl) deposits. Taro 50 XL provides a high degree of water tolerance and has good water separation and base retention properties. Taro 50 XL meets the requirements of API service classification CF.

Typical Characteristics

SAE Viscosity Grade	40
Code	043024
Base number, mgKOH/g	50
Density at 15°C, kg/l	0.92
Flash point, COC, °C	240
FZG test (A/8.3/90), failure load stage	12
Pour point, °C	-12
Sulphated ash, mass %	5.9
Viscosity, kinematic, mm ² /s (cSt)	
at 40°C	135
at 100°C	14.0
Viscosity index	100

Recommended Uses

Taro 50 XL is recommended for all types of trunk piston diesel engines burning residual fuels with a maximum sulphur level of 4.5% combined with low oil consumption. Taro 50 XL is approved by all major marine diesel engine manufacturers.

Performance Benefits**1. Wear protection**

High alkalinity levels control cylinder liner wear effectively and protect bearings from corrosion. High-performance, antiwear additives provide excellent protection against adhesive wear for cams, camshaft and bearings. Taro 50 XL also provides a high degree of water tolerance and antifoam protection.

2. Detergent/Dispersant Properties

Keeps crankcases and oil control rings clean. Prevents deposit formation throughout the engine. Reduces lube oil filter blockage. Effectively handles insolubles.

3. Oxidation Stability

Oxidation inhibitors protect the oil against high thermal stresses, protect engine parts from corrosion and reduce undercrown deposits while promoting extended lubricant life.

4. Rust Prevention

Prevents corrosion of engine parts when the engine is not in operation.

5. Balanced Additive Combination

Provides minimum maintenance and downtime, long engine life and economical operating costs.