



marine lubricants

# Taro<sup>®</sup> DP and XL Series



## Description

Taro<sup>®</sup> DP and XL series lubricants are high-performance diesel engine oils for medium-speed trunk piston diesel engines. Taro DP and XL series are blended with highly refined base oils and carefully selected additives. Taro DP and XL series lubricants have very good viscosity control when used in severe high-temperature service, and the BN retention characteristics helps to promote corrosive wear over long periods of operation. The unique detergent and dispersant additive system promotes 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 DP and XL series lubricants provide a high degree of water tolerance and have good water separation.

## Typical Characteristics

	Taro 20 DP 30 / 40 (X)*	Taro 30 DP 30 / 40 (X)*	Taro 40 XL 40 (X)*	Taro 50 XL 40 (X)*
<b>SAE Viscosity Grade</b>	<b>30 / 40</b>	<b>30 / 40</b>	<b>40</b>	<b>40</b>
<b>MPID</b>	<b>219230 / 219240</b>	<b>219231 / 219241</b>	<b>219243</b>	<b>219244</b>
Base number, mg KOH/g (ASTM D2896)	20	30	40	50
Density at 15°C, kg/l (ASTM D4052)	0.90	0.91	0.90	0.91
Flash point, COC, °C (ASTM D92)	180 min	180 min	180 min	180 min
Pour point, °C (ASTM D97)	-12	-12	-12	-12
Kinematic Viscosity at 40°C, mm <sup>2</sup> /s (ASTM D445)	94.0 / 135.0	94.0 / 135.0	135.0	135.0
FZG test (A/8.3/90), failure load stage (CEC-L-07-95)	12	12	12	12

\* Depending on the port designated, products may be delivered with or without the (X) identifier — e.g., Taro 20 DP 30X or Taro 20 DP 30 — however, the product typical test data both with or without the (X) identifier are miscible and fully compatible.

## Recommended Applications

Taro DP and XL series lubricants are recommended for medium-speed trunk piston diesel engines burning residual or marine diesel fuels. Taro DP and XL series should be used in accordance with OEM guidelines and recommendations. The good load carrying capacity of Taro DP and XL series lubricants also makes these suitable for use in engine reduction gears and other applications where EP properties are required.

## Taro DP and XL Series Lubricants Are Approved For:

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> MAN Energy Solutions           | <input checked="" type="checkbox"/> Daihatsu       |
| <input checked="" type="checkbox"/> Wärtsilä and MaK (Caterpillar) | <input checked="" type="checkbox"/> Hyundai Himsen |
| <input checked="" type="checkbox"/> Rolls Royce Bergen             | <input checked="" type="checkbox"/> Yanmar         |

**marine lubricants****Performance Benefits****1. Engine Protection**

Controls cylinder liner wear effectively and helps to protect bearings from corrosion. High performance, anti-wear additives can provide protection against wear for cams, camshaft and bearings. Taro® DP and XL series lubricants also promotes a high degree of water tolerance and anti-foam protection.

**2. Engine Cleanliness**

Helps to ensure clean crankcases, piston interiors and lubricating oil lines.

**3. Easy Purification**

Effective water and contaminants handling.

**4. Smooth Operation**

Helps to provide minimum maintenance and downtime, long engine life and economical operating costs.



Our Family of Brands

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