



# Taro<sup>®</sup> DP Series

## Medium-speed engine oils

Product Data Sheet

### Customer benefits

#### Wear Protection

Optimum BN 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 DP Series lubricants also provide a high degree of water tolerance and antifoam properties.

#### Detergent/Dispersant Properties

The unique detergent and dispersant additive system provide 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.

#### 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.

#### Rust Prevention

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

#### Balanced Additive Combination

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

### Product features:

- **Taro DP Series** lubricants are high-performance, medium- to high-BN, diesel engine oils for medium and high-speed trunk piston diesel engines.
- **Taro 20 DP** can also be used in combination with marine diesel or gas oil. Taro DP Series lubricants are 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 DP Series** lubricants have very good viscosity control when used in severe high- temperature service, and their excellent BN retention characteristics prevent corrosive wear over long periods of operation.
- **Taro DP Series** lubricants provide a high degree of water tolerance and have good water separation and base retention properties.



## Applications

Taro DP Series lubricants are recommended for all types of trunk piston diesel engines burning 1) marine diesel oil or low sulphur heavy fuels with a sulphur content up to 2% [Taro 20 DP]; or 2) residual fuels with a maximum sulphur level of 4% [Taro 30 DP]. Taro DP Series lubricants are approved by all major OEMs'

## Performance standards

Taro DP series approved and/or meets Majority of OEMs requirement\*\*

- Wärtsilä
- MAN Energy Solution
- Daihatsu
- Hyundai Himsen
- MAK (Caterpillar)
- Mitsui
- Niigata
- Rolls-Royce (Bergen)
- Yanmar

\*\* Refer to Chevron Technical Representative for more information

## Typical key properties

| TARO DP SERIES                            |                |                |
|---|----------------|----------------|
| Product Name                              | Taro 20 DP 30* | Taro 20 DP 40* |
| SAE Viscosity Grade                       | 30             | 40             |
| Product Code                              | 560048         | 560049         |
| Base number, mg KOH/g                     | 20             | 20             |
| Density, 15 °C, kg/l                      | 0.90           | 0.90           |
| Flash Point COC, °C                       | 240            | 240            |
| FZG test (A/8.3/90)<br>failure load stage | 12             | 12             |
| Pour Point, °C                            | -12            | -12            |
| Sulphated Ash, %mass                      | 2.5            | 2.5            |
| Viscosity Kinematic                       |                |                |
| - at 40 °C, mm <sup>2</sup> /s (cSt)      | 95             | 135            |
| - at 100 °C, mm <sup>2</sup> /s (cSt)     | 11.0           | 14.0           |
| Viscosity index                           | 100            | 100            |

  

| TARO DP SERIES                            |                |                |
|---|----------------|----------------|
| Product Name                              | Taro 30 DP 30* | Taro 30 DP 40* |
| SAE Viscosity Grade                       | 30             | 40             |
| Product Code                              | 560059         | 560060         |
| Base number, mg KOH/g                     | 30             | 30             |
| Density, 15 °C, kg/l                      | 0.90           | 0.90           |
| Flash Point COC, °C                       | 240            | 240            |
| FZG test (A/8.3/90)<br>failure load stage | 12             | 12             |
| Pour Point, °C                            | -12            | -12            |
| Sulphated Ash, %mass                      | 3.7            | 3.7            |
| Viscosity Kinematic                       |                |                |
| - at 40 °C, mm <sup>2</sup> /s (cSt)      | 95             | 135            |
| - at 100 °C, mm <sup>2</sup> /s (cSt)     | 11.0           | 14.0           |
| Viscosity index                           | 100            | 100            |

### ENVIRONMENT, HEALTH and SAFETY

Information is available on this product in the Material Safety Data Sheet (MSDS) and Customer Safety Guide. Customers are encouraged to review this information, follow precautions and comply with laws and regulations concerning product use and disposal. To obtain a MSDS for this product, visit [www.caltex.com](http://www.caltex.com)

This bulletin was prepared in good faith from the best information available at the time of issue. While the values and characteristics are considered representative, some variation, not affecting performance, can be expected. It is the responsibility of the user to ensure that the products are used in the applications for which they are intended.

Produced by:  
**Chevron Global Lubricants**  
– Asia Pacific

\*Taro DP series are fully compatible and miscible with or without (x) identifier.

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The information given in the typical data does not constitute a specification but is an indication based on current production and can be affected by allowable production tolerances. The right to make modifications is reserved. This supersedes all previous editions and information contained in them.