

# Taro<sup>®</sup> Ultra 100

Slow-speed engine oils



## Product description

**Taro<sup>®</sup> Ultra** is a new range of cylinder lubricants specifically designed to cope with the demands and required flexibility for IMO 2020. Taro Ultra cylinder lubricants have been fully field tested using a wide variety of fuels expected to be available post IMO 2020 implementation and are approved by major OEMs.

**Taro Ultra 100** is a 100 Base Number (BN) cylinder lubricant specially formulated to combat the effects of cold corrosion in two-stroke / slow-speed crosshead diesel engines equipped with exhaust abatement technologies running on heavy fuel oil, under all loads and operating conditions.

## Customer benefits and product features

### Customer benefits

- **Engine protection**  
Effective acid neutralization ensures protection against excessive cylinder liner and piston ring wear resulting from the use of high sulphur heavy fuel oils, thus extending cylinder liner and piston ring life.
- **Engine cleanliness**  
Prevents ring sticking and minimizes deposit formation on the pistons and throughout the combustion chamber exhaust areas.
- **Storage stability**  
Stable at ambient temperature and during long-term storage.
- **Compatibility**  
Compatible with diesel cylinder lubricants generally known to the international marine trade.
- **Operating cost**  
If oil feedrate is above minimum recommended by OEM, there is potential to move to a higher base number formulation to provide the same level of alkalinity and corrosion protection but at lower feedrates, therefore reducing operating cost.

### Product features

- Taro Ultra 100 is blended with highly refined base oils and carefully selected additives to provide excellent ring and liner wear protection and piston cleanliness in slow-speed crosshead diesel engines.

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## Applications

Taro Ultra 100 is recommended for lubricating the cylinders of the latest generation large two-stroke / slow-speed crosshead diesel engines equipped with exhaust abatement technologies operating with heavy fuel oil, under all loads and corrosive operating conditions.

Taro Ultra 100 should be used in accordance with OEM guidelines and recommendations. Taro Ultra 100 can also be used in combination with Taro Ultra 20 in MAN Energy Solutions diesel engines equipped with Automated Cylinder Oil Mixing (ACOM).

## Approvals, performance and recommendations

Taro Ultra 100 is approved against:

- MAN Energy Solutions
- Winterthur Gas & Diesel (formerly Wärtsilä)

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## Typical test data

TARO ULTRA 100	
SAE Viscosity Grade	50
Product Code	560110
Base number, mg KOH/g	100
Density, 15°C, kg/l	0.94
Flash Point COC, °C	180 min
Pour Point, °C	-12
Kinematic Viscosity @ 100°C, mm <sup>2</sup> /s (cSt)	19

2007

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 the Product Information Center.

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