marine lubricants

Taro® Ultra Advanced 40

Description

Taro® Ultra Advanced 40 is the latest addition to Chevron Marine Lubricants' range of cylinder oils meeting the highest performance standards. Taro Ultra Advanced 40 is designed to provide improved marine engine protection over previous generation of low Base Number (BN) formulations.

Taro Ultra Advanced 40 is a high performance, 40 Base Number (BN) cylinder lubricant specially formulated to:

- Offer enhanced piston and piston ring pack cleanliness and liner wear protection as a result of high dispersant and detergent effectiveness, at moderate BN level
- Protect the latest engine designs operating on fuels with sulfur content of 0,5% and lower from wear and corrosion
- Further extend thermal stability
- Improve scavenge space and exhaust track cleanliness by having significantly lower sulfated ash content than existing MAN ES Category II 100 and 140 BN lubricants
- Avoid alternating between high and low BN cylinder oils to improve piston cleanliness, simplifying operations

Taro Ultra Advanced 40 is blended with highly refined base oils and carefully selected additives to help provide strong ring and liner wear protection and piston cleanliness in large bore low speed crosshead engines.

Typical Characteristics

SAE Viscosity Grade	**50**
MPID	**219040**
Base number, mg KOH/g (ASTM D2896)	40
Density at 15°C, kg/l (ASTM D4052)	0.92
Flash point, COC, °C (ASTM D92)	220 min
Pour point, °C (ASTM D97)	–15
Kinematic Viscosity at 100°C, mm^2/s (ASTM D445)	19.0

Recommended Applications

Taro Ultra Advanced 40 is recommended for cylinder lubrication of the latest generation large low-speed marine diesel engines equipped with exhaust abatement technologies operating with a range of low and up to zero sulphur fuels including VLSFO, ULSFO, LNG and methanol. Taro Ultra Advanced 40 should be used in accordance with OEM guidelines and recommendations.

Taro Ultra Advanced 40 is Approved For:

☑ **MAN Energy Solutions (Category II cylinder oils)**

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Performance Benefits

1. Engine Protection

Designed to keep pistons clean at moderate BN and oil ash level, eliminating the need to alternate with cylinder oils of higher and lower BN to help maintain cleanliness. Anti-seizure properties help minimize the risk of scuffing and increase thermal stability to minimize the deposit build up. Formulated to prevent ring sticking. Designed to help protect against corrosive wear for a range of low and zero sulphur fuels including VLSFO, ULSFO, LNG and methanol.

2. Engine Exhaust Cleanliness

Operation with a lower sulfated ash lubricant can help reduce accumulation of oil ash in scavenge space, on exhaust valves, turbocharger and other components in the exhaust system such as economizer and critical exhaust gas after treatment systems as SCR, EGR, DPF.

3. Storage Stability

Stable at ambient temperatures and during long-term storage.

4. Compatibility

Miscible and compatible with diesel cylinder lubricants commonly used in the international marine trade.

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