

# Opt-Max Shieldguard 3030, 3040

## MARINE TRUNK PISTON ENGINE OIL

Opt-Max Shieldguard 3030, 3040 are formulated with carefully selected base oils and proven additives that meet the operational challenges of Marine Trunk Piston Engines.

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### Product Description

Opt-Max Marine Trunk Piston Engine Oils 3030, 3040 are developed according to the lubrication characteristics of four-stroke trunk piston engine, which can meet the lubrication requirements of their cylinder and crankcase, especially for the lubrication conditions of the new four-stroke trunk piston engine with higher working temperature and pressure.

### Features and Benefits

- Excellent wear resistance, effectively reducing the wear of metal parts.
- Excellent cleanliness and dispersion, reducing sediment, and keeping engine parts clean.
- Excellent thermal stability and oxidation stability, effectively inhibiting the formation of paint film
- Good rust and corrosion resistance that protects engine components.

### Applications

Opt-Max Marine Trunk Piston Engine Oils 3030, 3040 are suitable for use in:

- Lubrication of four-stroke marine trunk piston engine or four-stroke land trunk piston engine or auxiliary equipment such as stern tube using inferior fuel oil with sulfur content not higher than 3.0%.

### Performance Standards

Opt-Max Marine Trunk Piston Engine Oils 3030, 3040 meet the following performance requirements:

- API/CF

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**Opt-Max Global Pte Ltd**

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## Specifications

| Product Properties             |                    | Opt-Max<br>Shieldguard 3030 | Opt-Max<br>Shieldguard 3040 | Testing<br>Methods |
|--------------------------------|--------------------|-----------------------------|-----------------------------|--------------------|
| SAE Grade                      | -                  | 30                          | 30                          | -                  |
| Kinematic Viscosity<br>(100°C) | mm <sup>2</sup> /s | 10.92                       | 10.92                       | ASTM D445          |
| TBN                            | mgKOH/g            | 30                          | 40                          | ASTM D2896         |
| Viscosity Index                | -                  | 11.5                        | 11.5                        | ASTM D2270         |
| Flash Point                    | °C                 | 250                         | 250                         | ASTM D92           |
| Pour Point                     | °C                 | -12                         | -12                         | ASTM D97           |

\* Above product properties are indicative and subject to change without prior notice.

## Health and Safety

Opt-Max Shieldguard 3030, 3040 are unlikely to present any significant health or safety hazard when properly used in the recommended application. These products must always be handled with care, particularly avoiding skin contact. For further guidance on Product Health & Safety refer to the appropriate Opt-Max Shieldguard 3030, 3040 Material Safety Data Sheet.

## Additional Information

For additional information not covered, kindly contact our Opt-Max representative.

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