



## GEAR OILS

Pinnacle<sup>®</sup> Marine Gear**Description**

Pinnacle Marine Gear is a fully formulated, quality synthetic gear lubricant based on a mixture of polyalphaolefins and diesters. It offers excellent oxidation stability at elevated temperatures, extended oil drain life and outstanding wear protection.

**Typical Characteristics**

|  |               |
|--|---------------|
| <b>ISO Viscosity Grade</b>                     | <b>220</b>    |
| <b>Code</b>                                    | <b>045776</b> |
| Color  | L 1.0         |
| Copper corrosion, 24h at 121°C                 | 1b            |
| Density at 15°C, kg/l                          | 0.89          |
| Flash point, COC, °C                           | 250           |
| FZG test (A/8.3/90), failure load stage        | >12           |
| FZG grey staining test, failure load stage     | >10           |
| Pour point, °C                                 | -45           |
| Viscosity, kinematic, mm <sup>2</sup> /s (cSt) |               |
| at 40°C  | 200           |
| at 100°C                                       | 21.2          |
| Viscosity index                                | 126           |

**Recommended Uses**

Pinnacle Marine Gear is recommended for lubricating plain and roller bearings, and open and closed gears at high temperatures. It can be applied by bath, splash or circulation systems, and is specially targeted for the lubrication of purifier gears and reduction gears. Pinnacle Marine Gear meets the requirements of AGMA 250.04 (5EP), U.S. Steel 224 and DIN 51517/3. Pinnacle Marine Gear is approved by major purifier, gear and coupling manufacturers such as Westfalia, Alfa-Laval, Rolls Royce Marine, Lohman-Stolterfoht, and Ortlinghaus.

**Performance Benefits****1. Thermal and Oxidation Stability**

Synthetic hydrocarbon base oils provide excellent oxidation and thermal stability.

**2. Bearing and Gear Protection**

Superior bearing and gear protection combined with excellent copper compatibility at elevated temperatures were shown in the FZG test. Offers protection against the formation of micropitting as a result of fatigue stress, as tested in the FZG grey staining test.

**3. Low Friction**

Unique low friction coefficient results in improved gear efficiency, energy savings, less friction, less wear, and lower operating temperatures compared to conventional mineral oils.

**4. Extended Drain Intervals**

Provides longer lubricant life, less maintenance costs, and less used oil disposal.

**5. Compatibility**

Compatible with most mineral oil-based EP and R&O gear lubricants, as well as with most PAO-based synthetic EP and R&O gear lubricants.