



# MARINE GEAR OIL 320

*HIGH PERFORMANCE SYNTHETIC BLEND GEAR OIL  
ZINC FREE, ASHLESS FORMULA*

## **BEYOND SYNTHETIC®**

Royal Purple's Marine Gear Oil is an inherently biodegradable, ashless, environmentally responsible, high performance gear oil formulated for those users that need a high-performance oil to protect their equipment yet are concerned about the environment.

Marine Gear Oil meets the U.S. Fish and Wildlife Department's and the EPA's toxicity test requirements for marine life. Marine Gear Oil is an excellent, high-performance, gear oil for use in sensitive environments such as on off-shore platforms and other marine related services.

The long life and high film strength of Marine Gear Oil greatly increases equipment reliability. Marine Gear Oil also provides excellent protection in highly corrosive environments. It gains its performance advantage over competing oils through its superior blend of base oils plus Royal Purple's proprietary Synerlec additive technology. This unique, synthetic additive technology is proven to make bearings and equipment run smoother, cooler, quieter, longer and more efficiently.

## **SYNERLEC® ADDITIVE TECHNOLOGY MAKES THE DIFFERENCE!**

Synthetic oils enable Royal Purple to make superior lubricants, but it is Royal Purple's advanced Synerlec additive technology that gives its lubricants their amazing performance advantages. Synerlec additive technology truly is beyond synthetic.

Synerlec additive technology forms a tough, slippery, synthetic film on all metal surfaces. This proprietary film significantly improves lubrication: first, by increasing the oil film's thickness, and second, by increasing the oil film's toughness, both of which help to prevent metal-to-metal contact. It displaces moisture from metal surfaces and protects all metals against rust and corrosion. It also fortifies the oil against the detrimental effects of heat, which causes oil to oxidize.

## **PERFORMANCE ADVANTAGES**

### **High Film Strength**

Royal Purple's Marine Gear Oil with Synerlec additive technology protects gear components beyond the ability of other environmentally friendly gear oils.

### **Longer Oil Life**

Marine Gear Oil has outstanding oxidation stability and keeps equipment clean.

### **Excellent Corrosion Protection**

Marine Gear Oil with Synerlec additive technology's tough oil film forms an ionic bond on metal surfaces. This film not only protects during operation and acts as a preservative oil during shutdown, but it also provides instant lubrication upon startup to prevent wear.

### **Improved System Performance**

Marine Gear Oil frequently lowers operating temperatures and restores smooth, consistent performance to erratically operating gear systems.

### **Rapidly Separates From Water**

Marine Gear Oil rapidly and completely separates from water, which can easily be drained from the bottom of oil reservoir to keep the oil dry.

### **Synthetic Solvency**

Marine Gear Oil's natural solvency cleans up dirty equipment and keeps it clean.



### Compatible with Seals

Marine Gear Oil has excellent seal compatibility.

### Environmentally Responsible

The components of Marine Gear Oil are TSCA listed and meet EPA, RCRA and OSHA requirements. It is inherently biodegradable, meets the U.S. Fish and Wildlife Department's toxicity requirements and has passed the EPA/600/4-90-027F\* toxicity test requirement. It extends oil drain intervals due to longer oil service life, eliminates premature oil changes due to oil / water emulsions, greatly reduces oil purchases and disposal costs and conserves energy.

### Marine Gear Oil meets or exceeds the requirements of these manufacturers:

- Cincinnati Milacron P-68, 69, 70
- Denison P-46; T-5D; HF- 0, 1 & 2
- Vickers 104C Vane; 35VQ-25
- Sperry Vickers I-286-S; M-2950-S
- Lee Norse 100-1
- Jeffery No. 87
- Ford M-6C32
- U.S. Steel 127, 136
- B.F. Goodrich 0152
- General Motors LH-04-1, 06-1, 15-1

Typical Properties*	Method	
Density, lbs/gal	D4052	7.44
Viscosity	D445	
cSt @ 40°C		320
cSt @ 100°C		27.2
Viscosity Index	D2270	110
Flash Point, °F/°C	D92	365/185
Corrosion Test	D130	1A
Foam Test, Seq III	D892	0/0/0
Pour Point, °F/°C	D97	-27/-33

*\*Properties are typical and may vary.*