



## Injex<sup>®</sup> Marine 4-Cycle Motor Oil

Phillips 66<sup>®</sup> Injex Marine 4-Cycle Motor Oil is a premium quality engine oil specially designed for use in 4-stroke cycle outboard marine engines. It is engineered to lubricate and protect under the unique and demanding operating conditions typical of outboard engines. It is formulated to provide excellent wear protection, to minimize piston deposits and ring sticking, and to provide outstanding protection against rust and corrosion in the corrosive operating environments common to outboard engines.

The operating conditions for outboard marine engines are quite different from those for passenger cars. Automotive engine oils are not formulated to provide optimal performance in outboard engines. Outboard engines operate in more corrosive environments than automotive engines. Because they operate in water, and may be stored partially immersed or in close proximity to water, rust and corrosion are major concerns with outboard engines. These concerns are magnified for outboard engines operated in salt water. Unlike automobiles, the duty-cycle for outboards consists primarily of full-throttle, high-speed operation and extended periods of idle time. Such conditions demand strong wear protection from the oil. Vertical crankshaft orientation and the potential for high levels of fuel dilution require higher shear stability than automotive engine oils to ensure proper bearing lubrication. Injex Marine 4-Cycle Motor Oil is specially formulated to deliver the extra protection required by outboard engines.

### **Applications**

- 4-stroke cycle outboard engines where the engine manufacturer specifies an NMMA FC-W<sup>™</sup> certified engine oil, and requires its use to maintain engine warranty

Injex Marine 4-Cycle Motor Oil meets or exceeds the requirements of:

- NMMA FC-W<sup>™</sup> (Certification No. FB-44427J)

**Note:** *Injex Marine 4-Cycle Motor Oil is **not** intended for use in late-model passenger cars or light trucks with gasoline engines. It is **not** suitable for use in 2-stroke cycle outboard engines of any kind, whether direct oil injection or premix engines.*

**Premium Engine  
Oil For 4-Stroke  
Cycle Outboard  
Marine Engines,  
NMMA FC-W<sup>™</sup>  
Certified**

### **Contact Information**

**U.S. Customer  
Service:  
1-800-822-6457**

**Technical Support:  
1-800-766-0050**

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## Features/Benefits

- Proven performance in 4-stroke cycle outboard marine engines
- Outstanding protection against rust and corrosion of internal engine components
- Excellent wear protection during high-speed operation and extended idle times
- High shear stability for better protection of bearings in vertical crankshaft engines
- Protects against piston deposits and ring sticking
- Meets all engine manufacturer warranty requirements when FC-W™ oils are recommended

## Injex® Marine 4-Cycle Motor Oil

### Typical Properties

SAE Grade	10W-30
Specific Gravity @ 60°F	0.871
Density, lbs/gal @ 60°F	7.26
Color, ASTM D1500	L 2.5
Flash Point (COC), °C (°F)	208 (406)
Pour Point, °C (°F)	-42 (-44)
Viscosity, Kinematic	
cSt @ 40°C	78.8
cSt @ 100°C	11.9
Viscosity Index	145
High-Temp/High-Shear Viscosity, after shear, cP @ 150°C	3.3
FC-W™ Rust Test	Pass
Foam Test, ASTM D892	Pass
Sulfated Ash, ASTM D874, wt %	0.8
Total Base Number (TBN), ASTM D2896	6.3
Phosphorus, wt %	0.12

## Health and Safety Information

For recommendations on safe handling and use of this product, please refer to the Material Safety Data Sheet via <http://w3.conocophillips.com/NetMSDS>.

Typical properties are average values only and do not constitute a specification. Minor variations that do not affect product performance are to be expected during normal manufacture, and at different blending locations. Product formulations are subject to change without notification.

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