



Technical Data Sheet

PENNZOIL MARINE® PREMIUM OUTBOARD FOUR-CYCLE 10W-30

NMMA Certified for Service FC-W™

PRODUCT DESCRIPTION

PENNZOIL MARINE® PREMIUM OUTBOARD FOUR-CYCLE 10W-30 is a four-cycle engine oil formulated to meet or exceed the warranty requirements of modern 4-cycle outboard engine manufacturers where FC-W™ performance and SAE 10W-30 viscosity grade are recommended. It provides excellent lubricity to help reduce friction, wear protection to help protect engine parts and rust protection to help prevent water or salt-induced corrosion. FC-W™ service oils are designed to reduce emissions and improve fuel economy compared to prior categories.

PENNZOIL MARINE® PREMIUM OUTBOARD FOUR-CYCLE 10W-30 goes beyond typical four-cycle passenger car motor oil performance, and is recommended for use in all makes and models of leisure marine outboard four-cycle engines requiring FC-W™ performance and an SAE 10W-30 viscosity grade.

PENNZOIL MARINE® PREMIUM OUTBOARD FOUR-CYCLE 10W-30 is certified by the National Marine Manufacturer's Association (NMMA) as an approved NMMA FC-W™ lubricant and is specifically designed for exceptional performance in leisure marine applications.

PENNZOIL MARINE® PREMIUM OUTBOARD FOUR-CYCLE 10W-30 contains premium components which help prevent any lubricant related problems. The additives also help protect against engine deposits, foaming, aeration, rust, and corrosion. It resists gel formation due to water or other contamination. The special base stocks used help protect the engine against piston and cylinder wall scuffing.

APPLICATION

PENNZOIL MARINE® PREMIUM OUTBOARD FOUR-CYCLE 10W-30 exceeds the requirements of the NMMA FC-W™ standard. It is recommended for and meets the warranty requirements of four-cycle outboard engines produced by the following manufacturers where FC-W™ performance and a 10W-30 viscosity grade are recommended:

*Evinrude
*Honda

*Johnson
*Nissan

*Mercury
*Suzuki

*Bombardier
*Yamaha

BENEFITS

- Helps protect engines against rust, the effects of fuel dilution, friction and wear in order to help extend engine life
- NMMA FC-W™ certified. Exceeds warranty requirements for four-cycle outboard engine manufacturers where FC-W™ and SAE 10W-30 are recommended
- Exceeds NFPA Code 30 Class IIIB liquids flash point limits. Flash point exceeds 200°F and requires no special warehousing

**TYPICAL PHYSICAL AND CHEMICAL PROPERTIES
 PENNZOIL MARINE[®] PREMIUM OUTBOARD FOUR-CYCLE 10W-30**

TEST	METHOD	TYPICAL RESULTS
Gravity, API	ASTM D-4052	29.3
Pounds per Gallon	ASTM D-4052	7.33
Flash Point, °C(°F)	ASTM D-93	
Viscosity		
@ 40°C, cSt	ASTM D-445	79.8
@ 100°C, cSt	ASTM D-445	12.2
Viscosity Index	ASTM D-2270	150
MRV TP-1 (cP at -30 °C)	ASTM D-4684	36,400
CCS (cP at -25 °C)	ASTM D-5293	5850
Pour Point, °C(°F)	ASTM D-97	-30(-22)