



PENNZOIL MARINE® XLF OUTBOARD TWO-CYCLE OIL

NMMA Certified TC-W3®

PRODUCT DESCRIPTION

PENNZOIL MARINE® XLF OUTBOARD TWO-CYCLE OIL is a premium “Synthetic Blend” certified by the National Marine Manufacturer's Association (NMMA) as an approved NMMA TC-W® lubricant and is specifically designed for exceptional performance in marine applications.

PENNZOIL MARINE® XLF OUTBOARD TWO-CYCLE OIL is a synthetic blend product formulated for excellent protection of new engines and to provide additional protection for older engines.

PENNZOIL MARINE® XLF OUTBOARD TWO-CYCLE OIL contains only ashless components which helps prevent any lubricant related preignition and spark plug fouling. The ashless additives also help protect against piston and combustion chamber deposits, rust, and corrosion. It's “anti-gel” properties help resist gel formation due to water or other contamination. The special base stocks used resist piston and cylinder wall scuffing.

APPLICATION

PENNZOIL MARINE® XLF OUTBOARD TWO-CYCLE OIL was developed for additional protection of new engines but also to provide protection for engines that see high use or have been in service for several years. PENNZOIL MARINE® XLF is formulated to a higher lubricity limit than the NMMA AF-27 lubricity test to provide excellent protection against piston scuffing and reduced wear.

PENNZOIL MARINE® XLF OUTBOARD TWO-CYCLE OIL mixes easily with gasoline, and is dyed blue to allow for easy detection. Follow engine manufacturer's recommended fuel/oil ratio for premix systems. It is also recommended for oil injection systems. Meets the engine warranty requirements for Johnson/Evinrude/OMC, Mercury Marine, Yamaha, Suzuki, Nissan, For/US Marine, Mariner and all others requiring TC-W3®

PENNZOIL MARINE® XLF OUTBOARD TWO-CYCLE OIL may also be used in other applications calling for NMMA TC-W®, TC-WII®, or TC-W3® approved oils.

BENEFITS

- Synthetic Blend for high performance applications
- Maximum additive treatment, including increased detergency over the TC-W3® formulation. Helps protect engines against failures due to scuffing, ring sticking, port deposits, bearing failures and plug fouling
- Exceeds NFPA Code 30 Class IIIB liquids flash point limits. Flash point exceeds 200°F and requires no special warehousing
- NMMA TC-W3® certified. Exceeds warranty requirements for all outboard engine manufacturers
- Keeps your engine running clean
- Guards against harmful deposits
- Protects against piston scuffing

Ratio Gas to Oil	Ounces of Oil to be added				Milliliters of Oil to be added		
	1 Gal	2 Gal	5 Gal	10 Gal	1 Liter	5 Liters	10 Liters
16:1	8	16	40	80	62.5	312.5	625
32:1	4	8	20	40	31.25	156.25	312.5
40:1	3.2	6.4	16	32	25	125	250
50:1	2.6	5.2	12.8	25.6	20	100	200
100:1	1.3	2.6	6.4	12.8	10	50	100

**TYPICAL PHYSICAL AND CHEMICAL PROPERTIES
PENNZOIL MARINE[®] XLF OUTBOARD TWO-CYCLE OIL**

TEST	METHOD	TYPICAL RESULTS
Specific Gravity	ASTM D 1298	0.871
Flash Point, °C(°F)	ASTM D 93	96(205)
Viscosity		
@ 40°C, cSt	ASTM D 445	54.3
@ 100°C, cSt	ASTM D 445	9.05
Viscosity Index	ASTM D 2270	141
Brookfield Viscosity @-25°C, cP	ASTM D 2983	6690
Pour Point, °C(°F)	ASTM D 97	-36
Material Number		
Bulk		5054348