



PREMIUM OUTBOARD AND MULTI-PURPOSE TWO-CYCLE OIL

NMMA Certified TC-W3[®]

PRODUCT DESCRIPTION

PENNZOIL[®] PREMIUM OUTBOARD AND MULTI-PURPOSE TWO-CYCLE OIL is certified by the National Marine Manufacturer's Association (NMMA) as an approved NMMA TC-W3[®] lubricant. It contains Pennzoil premium quality lubricating oil plus ashless additives and increased detergency to give the best quality protection in all types of high performance two-cycle engines calling for TC-W[®], TC-WII[®], and TC-W3[®] oils. PENNZOIL[®] PREMIUM OUTBOARD AND MULTI-PURPOSE TWO-CYCLE OIL also exceeds the performance requirements of the API TC Service Classification which is commonly recommended for air-cooled two-cycle engines.

PENNZOIL[®] PREMIUM OUTBOARD AND MULTI-PURPOSE TWO-CYCLE OIL contains only ashless components which prevent any lubricant related preignition and plug fouling. The ashless additives protect against piston and combustion chamber deposits, rust, and corrosion. It resists gel formation due to water or other contamination. The special base stocks used resist piston and cylinder scuffing.

APPLICATION

PENNZOIL[®] PREMIUM OUTBOARD AND MULTI-PURPOSE TWO-CYCLE OIL exceeds the requirements of the NMMA TC-W3[®] standard. It is recommended for and meets the warranty requirements of outboard engines produced by the following manufacturers:

*Evinrude	*Johnson	*Mercury	*Mariner
*U.S. Marine/Force	*Sears	*Suzuki	*Yamaha

It also meets manufacturer's requirements for use in snowmobile engines found in the following brands:

*John Deere	*Kawasaki	*Polaris Star	*Scorpion
*Yamaha	*Arctic Cat	*Ski-doo	

PENNZOIL[®] PREMIUM OUTBOARD AND MULTI-PURPOSE TWO-CYCLE OIL mixes easily with gasoline and flows through injectors, even at very low temperatures. It is dyed blue to allow for easy detection when mixed with gasoline. Follow engine manufacturer's recommended fuel/oil ratio.

PENNZOIL[®] PREMIUM OUTBOARD AND MULTI-PURPOSE TWO-CYCLE OIL may also be used in other applications calling for TC-W[®], TC-WII[®] or TC-W3[®] approved oils. PENNZOIL[®] PREMIUM OUTBOARD AND MULTI-PURPOSE TWO-CYCLE OIL exceeds the API TC Service Classification requirements. This means PENNZOIL[®] PREMIUM OUTBOARD AND MULTI-PURPOSE TWO-CYCLE OIL is suitable for use in air-cooled, two-cycle utility engines, such as those found on string trimmers, chain saws, lawn mowers, motorcycles, mopeds, and golf carts.

BENEFITS

- Maximum additive treatment, including increased detergency over the TC-WII® formulation, protects your engine against failures due to scuffing, ring sticking, port deposits, bearing failures and plug fouling
- Exceeds NFPA Code 30 Class IIIB liquids flash point limits
- TC-W3® approval means that your warranty is safe and that you are using the most advanced technology available since this standard is recognized by all outboard and snowmobile engine manufacturers
- Mixes easily with fuel for premix applications
- Exceeds the requirements of the API Service Classification TC for two-cycle lubricants for air-cooled engines. The optimum mix of lubricating base stocks maintains the proper grade, gives maximum protection against scuffing and assures good low temperature fluidity
- Flash point greater than 200°F and requires no special warehousing
- PREMIUM OUTBOARD AND MULTI-PURPOSE TWO-CYCLE OIL is manufactured to the same rigid quality standards set by Pennzoil for all their other products
- Excellent low-temperature pumpability for all applications

FUEL MIXING TABLE

Ratio	Ounces of Oil to Gallons of Gasoline			Milliliters (cc) of Oil to Liters of Gasoline	
	1 Gallon	5 Gallon	10 Gallon	1 Liter	10 Liters
Fuel to Oil	Oz	Oz	Oz	ml (cc)	ml (cc)
16:1	8	40	80	65	625
24:1	5.5	26.5	53	40	420
32:1	4	20	40	30	315
50:1	2.5	13	26	20	200
100:1	1.5	6.5	13	10	100

**TYPICAL PHYSICAL AND CHEMICAL PROPERTIES
PENNZOIL® PREMIUM OUTBOARD AND MULTI-PURPOSE TWO-CYCLE OIL**

TEST	METHOD	TYPICAL RESULTS
Gravity, °API	ASTM D-287	30.9
Pounds per Gallon	ASTM D-1298	7.253
Viscosity		
@ 40°C, cSt	ASTM D-445	58.7
@ 100°C, cSt	ASTM D-445	9.53
Viscosity Index	ASTM D-2270	133
Brookfield Viscosity @ -25°C, cP	ASTM D-2983	6800
Flash Point, °C(°F)	ASTM D-93	100(212)
Pour Point, °C(°F)	ASTM D-97	-39(-38)
Material Number		
Bulk		3980