



OUTBOARD MOTOR OIL TC-W3

(Two-cycle Motor Oil)

OUTBOARD MOTOR OIL TC-W3 is specially formulated for use in all high performance, two-cycle outboard motors, including models equipped with oil injection systems. It is fully TC-W3 approved, by the NMMA (National Marine Manufacturers Association), *and it has enhanced lubricity* which means it satisfies the current warranty requirements of major outboard motor manufacturers such as: Chrysler, Eska, Evinrude/Johnson, Mercury/OMC, Mariner, Nissan, Sea King, Sears/Gamefisher, Suzuki and Yamaha.

OUTBOARD MOTOR OIL TC-W3 utilizes a unique ashless additive package that provides maximum wear protection while reducing deposits. This serves to minimize harmful combustion chamber and exhaust system deposits. In addition, spark plug fouling is reduced as well.

While keeping engines clean, this same additive package works to prevent wear and corrosion. Special anti-wear additives guard against piston and cylinder scuffing. Other additives prevent rust when engines are not in use.

A practical advantage of **OUTBOARD MOTOR OIL TC-W3** is that it is pre-mixed to simplify fuel mixing. Oils without this feature have difficulty mixing evenly and completely in gasoline, especially when cold. This results in an uneven gas-oil mixture that can cause excessive wear and/or spark plug fouling. **OUTBOARD MOTOR OIL TC-W3** disperses readily throughout the fuel, eliminating this problem.

CAUTION: Harmful or fatal if swallowed. Contains petroleum distillates. If swallowed, do not induce vomiting. Call a physician immediately. Combustible. Keep away from heat and open flame. Avoid prolonged contact with skin. Keep out of reach of children.

Another problem common to outboard motors is fuel filter plugging. Such incompatibility can create an insoluble gel that plugs filters and stalls the engine. **OUTBOARD MOTOR OIL TC-W3** is fully compatible with such additives eliminating filter plugging and increasing reliability.

BENEFITS:

- MEETS ENGINE MAKER WARRANTY REQUIREMENTS
- ENHANCED LUBRICITY
- PROTECTS AGAINST WEAR
- REDUCES HARMFUL DEPOSITS
- PREVENTS FILTER PLUGGING
- PRE-MIXED FOR FAST AND COMPLETE DISPERSION

APPLICATIONS:

OUTBOARD MOTOR OIL TC-W3 is recommended for use in modern high horsepower outboard motors (including those with oil injection systems) and older lower horsepower units. In addition, it is ideal for other types of two-cycle engines including: snowmobiles, motor cycles, chain saws, lawnmowers, scooters, snow blowers, generators, and other equipment.

OUTBOARD MOTOR OIL TC-W3 should be mixed according to the ratio recommended by the engine manufacturer. It can be used at fuel/oil ratios of up to 1:100. Refer to owner's manual for specific mixing ratio requirements. The chart on the back of this sheet can be used as a guide to achieve proper mixing.



OUTBOARD MOTOR OIL TC-W3

(Premium Two-cycle Engine Oil)

TYPICAL CHARACTERISTICS

Product Code	13101
Color, visual	Blue*
NMMA Certification Number	RL -27045F
Viscosity (ASTM D-445):	
cSt @ 40°C	54.5
cSt @ 100°C	8.2
Viscosity Index	122
Pour Point (ASTM D-97) °F (°C)	-33 (-36)
Flash Point (ASTM D-92) °F (°C)	280 (138)
Nitrogen, ppm	4600
Sulfated Ash (ASTM D-874) %	Nil

FUEL MIXTURE CHART

TANK SIZE	1 Gal.	2 Gals.	3 Gals.	4 Gals.	5 Gals.	6 Gals.	12 Gals.
GAS:OIL RATIO	OUNCES OF OIL TO BE ADDED						
11:1	12	23	35	47	58	70	140
12:1	11	21	32	43	53	64	128
16:1	8	16	24	32	40	48	96
20:1	6	13	19	26	32	38	77
24:1	5	11	16	21	27	32	64
25:1	5	10	15	20	26	31	61
32:1	4	8	12	16	20	24	48
40:1	3	6	10	13	16	19	38
42:1	3	6	9	12	15	18	37
50:1	3	5	8	10	13	15	31
100:1	1	3	4	5	6	8	15

The above data is subject to usual manufacturing variation. For more information and availability, call 1-800-442-LUBE.

* Batches prior to 8/05 were purple in color.

08/15/2005