



WORLD CLASS LUBRICANTS
FOR TROPICAL CONDITIONS

Super Stream

GENERAL

Ultra Super Stream Outboard Motor Oil TC-W3 is a premium quality hydro-treated base oil lubricant, designed to meet the critical requirements of the latest high performance, water-cooled two stroke engines.

It meets and exceeds the latest National Marine Manufacturers Association (NMMA) standards for two stroke engines requiring **TC-W3** oils, and has been awarded the **NMMA Certification No. RL - 29123F**.

Ultra Super Stream Outboard Motor Oil TC-W3 is formulated using a high quality ashless additive package which provides enhanced lubrication and protection for the latest high performance outboard motors even at the leaner oil to fuel ratios currently recommended by outboard engine manufacturers, and may be used with both leaded and unleaded fuel. It is dyed blue for ease of identification.

PERFORMANCE SPECIFICATIONS

Ultra Super Stream Outboard Motor Oil TC-W3 meets and exceeds the test requirements of:

- **NMMA TC-W3** specification for water-cooled two stroke outboard engines.
- **API Service Category TC** for air-cooled two stroke engines.

KEY BENEFITS

Use of **Ultra Super Stream Outboard Motor Oil TC-W3** affords the following benefits:

- Superior anti - scuffing protection.
- Improved protection against ring sticking.
- Reduced spark plug fouling resulting in satisfactory operation under all conditions.
- Reduced engine deposits and associated effects due to pre-ignition.
- Protection against rust and corrosion resulting in extended engine life.
- Reduced exhaust system deposits.
- No gel formation when mixed with fuel.
- Low aquatic toxicity effects.

MAIN APPLICATIONS

- Water-cooled outboard two stroke engines requiring **NMMA TC-W3, TC-WII** and **TC-W** type oils.
- Air-cooled two-stroke engines requiring oil satisfying **API TC** specifications e.g. power saws, motorcycles, etc.

TYPICAL PROPERTIES

	TEST METHOD	
Appearance		Blue
Kin. Viscosity @ 40°C-cSt	ASTM D445	48.00
Kin. Viscosity @ 100°C-cSt	ASTM D445	8.13
Viscosity Index	ASTM D2270	142
Specific Gravity @ 60/60°F	ASTM D1298	0.8698
Pour Point °C	ASTM D97	-33
Total Base Number	AASTM D2896	5.46
Closed Flash Point °C	ASTM D93	79
API Gravity	ASTM D1298	30.2

APPLICATION GUIDE TABLE

The table below gives volume of oil in ounces or milliliters required for mixing with various quantities of gasoline at the engine manufacturer specified fuel/oil ratios.

Fuel (USG)	1		2		3		4		5	
Fuel (liter)	3.8		7.6		11.4		15.2		19	
Fuel/Oil Ratio	oz.	ml.	oz.	ml.	oz.	ml.	oz.	ml.	oz.	ml.
16:1	8	240	16	470	24	710	32	950	40	1180
20:1	6	190	13	380	19	570	26	760	32	950
25:1	5	150	10	300	15	460	20	610	26	760
50:1	3	80	5	150	8	230	10	300	13	380
100:1	1	40	3	80	4	110	5	150	6	190

HEALTH AND SAFETY

Ultra Super Stream Outboard Motor Oil TC-W3 is unlikely to pose any health or safety hazards when used in the recommended applications, provided good standards of personal and industrial hygiene are observed.