



SWEPCO  
**313**

ADVANCED TECHNOLOGY IN LUBRICATION SINCE 1933

PERFORMANCE

## **TC-W3 Two-Cycle Engine Oil**

- *Specifically Designed for Severe TC-W3 Applications*
- *Designed for Two-Cycle Outboard Motors*
- *Recommended for Both Mixing With Fuel & Use As An Injection Oil*
- *Reduces Piston Deposits*
- *Prevents Ring Sticking*
- *Increases Powerhead Life*
- *Reduces Plug Fouling*
- *Unsurpassed Lubricity & Protection from Scuffing & Scoring*
- *Minimum Smoking*

Today's two-cycle engines are working harder than ever before. They run hot and they run hard and they test the very limits of lubrication technology.

SWEPCO 313 TC-W3 Oil is a new generation heavy-duty two-cycle engine oil specially formulated to exceed the performance demands of today's high-horsepower two-cycle air and water cooled engines. It can be mixed with fuel or used as an injection oil. It's superior anti-wear performance insures protection of hardworking two-cycle engines.

In addition, SWEPCO 313 is licensed by the National Marine Manufacturers Association (NMMA) and exceeds major water-cooled two-stroke engine manufacturers' test requirements for the boating industry.

SWEPCO 313 TC-W3 is designed for use in engines featuring more advanced technology and extends the previously proven TC-W/TC-W2 technology and beyond. It provides an extra margin of lubrication safety which



**SWEPCO 313 provides unexcelled protection and cleanliness.**

can result in significantly less maintenance and costly downtime, while significantly increasing powerhead life, even those exposed to hostile salt water marine environments and "dirty gasoline".

### **Prolongs Engine Life**

SWEPCO 313 TC-W3 oil helps eliminate many of the lubrication problems encountered with today's high performance two-cycle engines. SWEPCO's exclusive formulation means the lubricant does not contribute to spark plug fouling, which is one of the major causes of loss of power, hesitation, high-speed stumbling, missing and pre-ignition. This feature also helps reduce sticky valves, rings

and premature engine failures caused by harmful metal deposits. A heavy-duty anti-wear additive provides superior protection against wear, scuffing, scoring and piston seizure.

### Clean & Hard Working

SWEPCO 313 is a “quick mix” lubricant which disperses quickly and evenly throughout the fuel to promote both uniform lubrication and cleaner, more complete burning with less smoke. Whether mixed or injected, its ashless/high detergency formula helps keep the engine free from deposits which can cause loss of horsepower and performance. Its outstanding detergency, anti-corrosion and anti-oxidation characteristics not only help prevent formation of power-robbing deposits such as sludge, gum and varnish, but help clean out those already present. Special anti-rust and corrosion additives provide excellent protection even during extended storage periods. It exceeds the most rigorous OEM specifications and industry requirements for water and air cooled two-cycle engines, including bench tests that evaluate fuel/oil miscibility, rust prevention, fluidity, filterability, lubricity, preignition and detergency.

### Physical Properties

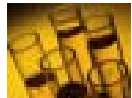
Density @ 60°F, Lbs / Gal .....	7.2
Density @ 60°F, Kg / L .....	0.86
Viscosity, SUS @ 100°F .....	160
Viscosity, SUS @ 210° F .....	48
Viscosity, cSt @ 40°C .....	33
Viscosity, cSt @ 100°C .....	6.35
Pour Point, °F (°C) .....	-40 (-40)
Flash Point, COC, °F (°C) .....	130 (54)
Color .....	Blue
TBN .....	8.24

### Chemical Characteristics

Sulfated Ash, % Wgt .....	<0.001
Nitrogen, % Wgt .....	0.50

### Performance Properties

OMC 40 HP, Average Piston Deposits .....	Pass
OMC 40 HP, Average 2nd Ring Sticking .....	Pass
OMC 70 HP, Average Piston Deposits .....	Pass
OMC 70 HP, Average 2nd Ring Sticking .....	Pass
Lubricity, Torque @ 300 .....	Pass
Lubricity, Torque @ 325 .....	Pass
Lubricity, Torque @ 350 .....	Pass
Preignition .....	Pass



**A Product of SPX Technology™.**

... the cutting edge performance SWEPCO Customers have come to expect.



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