



## PRODUCT DATA SHEET

### OUTBOARD OIL TCW-3

#### DESCRIPTION

**Outboard Oil TCW-3** is the latest of an evolutionary chain of lubricating oils which was developed to meet the changing needs and increasing severity of water cooled Outboard Engines. It meets the requirements of the NMMA (National Marine Manufacturers Association) TC-W3 Recertified oil standard.

**Outboard Oil TCW-3** offers the maximum protection available for modern high temperature outboard engines and its formulation also provides outstanding performance when used in two stroke motor-cycle engines, chain saws, lawn mowers etc. It is suitable for use with unleaded fuel.

#### CHARACTERISTICS

The combination of an ashless two-cycle additive package with paraffinic oxidation stable base oils and solvent has produced this outboard motor oil which meets the TC-W3 Recertified requirements, including the two consecutive Mercury 15 HP tests under the new 15 HP Pass/Fail Criteria, the OMC 70 HP test, the improved lubricity performance standard and the 40 HP procedure.

Outboard manufacturers wanted improved lubricant performance in the area of:

- Rust protection
- Ring sticking
- Ring wear
- Lubricity
- Detergency

**Outboard Oil TCW-3** is the product which satisfies all of the above improved performance requirements. In addition it uses an additive system designed to reduce the tendency of older oils to form gels or become hazy during storage or at low temperatures. **Outboard Oil TCW-3** is formulated for low aquatic toxicity to fish. The low aquatic toxicity requirements are appearing in various environmental standards and regulations and this product meets existing industry aquatic toxicity requirements. **Outboard Oil TCW-3** has an LC 50 of > 4000 ppm and it is therefore considered not harmful in terms of aquatic toxicity.

#### APPLICATIONS

**Outboard Oil TCW-3** is the prime recommendation for all water-cooled 2 stroke outboard engines such as Johnson, Evinrude, Mercury, Chrysler, Suzuki, Yamaha and Tohatsu.

**Outboard Oil TCW-3** can be used in 2 stroke motor cycle engines, chain saws and lawn mowers, whether they are equipped with an automatic oil injection system or require premixed oil/petrol mixtures. It is highly recommended that oil/petrol ratios should follow the equipment manufacturer's recommendations very carefully.

**Outboard Oil TCW-3** is dyed dark purple so that the appearance of oil/petrol mixtures easily confirms whether or not oil has been added to the petrol.





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### SPECIFICATIONS:

NMMA TC-W3 Recertified  
API TC

### TYPICAL TESTS

Appearance  
Density (kg/Lt) @ 15°C  
Viscosity (cSt) @ 100°C  
                                  @ 40°C  
Viscosity Index  
Sulphated Ash (% wt)  
Flash Point, PMCC (°C)  
Pour Point (°C)  
Total Base Number (mg KOH/g)  
Nitrogen (% wt)

### ASTM METHOD

Visual  
D-1298  
D-445  
D-445  
D-2270  
-  
D-93  
D-97  
D-2896  
D-4629

### OUTBOARD OIL TCW-3

Dark Purple  
0.865  
7.4  
40.0  
155  
0.003  
80  
-42  
10.5  
0.47

"The facts stated and the recommendations made herein are believed to be accurate. No guarantee of their accuracy is made however, and unless otherwise expressly provided in written contract, the products are sold without conditions or warranties, expressed or implied. Purchasers should determine the suitability of such products for their particular purposes."

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