



Hi-Tec Oil Traders Pty Ltd ABN 28 053 837 362

5 Tarlington Place Smithfield NSW 2164

Correspondence: P.O Box 322 Castle Hill NSW 1765

Ph: 1300 796 009 | Fax: (02) 9604 1611 | Email: hitecoils@hi-tecoils.com.au

www.hi-tecoils.com.au

PRODUCT DATA SHEET

OUTBOARD OIL TCW-3

DESCRIPTION

Hi-Tec 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. **Hi-Tec Outboard Oil TCW-3** exceeds the requirements of the NMMA (National Marine Manufacturers Association) TC-W3 oil standard.

Hi-Tec 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 2 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 an Outboard Motor Oil which exceeds the TC-W3 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:

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

Hi-Tec 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.

Hi-Tec 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. **Hi-Tec Outboard Oil TCW-3** has an LC 50 of > 4000 ppm and it is therefore considered Not Harmful in terms of Aquatic Toxicity.

APPLICATIONS

Hi-Tec 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.

Hi-Tec 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.

Hi-Tec 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.



AUSTRALIAN FAMILY OWNED SINCE 1989





Hi-Tec Oil Traders Pty Ltd ABN 28 053 837 362

5 Tarlington Place Smithfield NSW 2164

Correspondence: P.O Box 322 Castle Hill NSW 1765

Ph: 1300 796 009 | Fax: (02) 9604 1611 | Email: hitecoils@hi-tecoils.com.au

www.hi-tecoils.com.au

PRODUCT DATA SHEET

SPECIFICATIONS:

NMMA TC-W3 Recertified
API TC

TYPICAL TESTS

Appearance
Density, kg/L at 15°C
Viscosity, cSt at 100°C
 at 40°C
Viscosity Index
Ash, Sulphated % Mass
Flash Point, PMCC, °C
Pour Point, °C
Cloud Point, °C
Total Base Number
Nitrogen, % Mass
Miscibility (Inversions)

Fluidity (Brookfield, cP @ -25°C)

ASTM METHOD

Visual
D.1298
D.445
D.445
-
D.93
D.97
D.2500
D.2896
D.4629

OUTBOARD OIL TCW-3

Dark Purple
0.873
8.36
51.43
140
0.002
89
-36
-13
10
0.16
101
(Passing Limit \leq 107)
6910
(Passing Limit \leq 7500)

"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."

Product Code: 2131
Effective: October 2014
Expires: October 2016
GH410192/4



AUSTRALIAN FAMILY OWNED SINCE 1989

