

Petro-Canada Tech Data



OUTBOARD MOTOR OIL

Introduction

Petro-Canada Outboard Motor Oil is a premium lubricant designed to give excellent performance in two-stroke cycle engines used to power outboard motors. It is especially formulated for use in oil injected as well as pre-mixed gasoline/oil lubricated engines.

Outboard Motor Oil is formulated with the latest performance additives that give superior anti-scuff and anti-wear protection, internal cleanliness and long engine life. In addition, the ashless formula minimizes spark plug fouling and prevents engine pre-ignition.

Certified by the National Marine Manufacturers Association (NMMA) under TC-W3™ registration R-50516, Outboard Motor Oil is a low smoke oil that meets the JASO FC smoke test requirements.

Features and Benefits

- Controls deposit formation/ring-sticking and prevents exhaust port plugging
- Gives superior anti-wear and anti-scuff protection
- Minimizes spark plug fouling and engine pre-ignition
- Provides excellent protection against rust and corrosion
- Formulated for oil injection as well as pre-mixed gasoline/oil lubricated engines
- Keeps smoke emissions low when used at recommended gasoline/oil ratios
- Dyed blue-green for easy detection of gasoline/oil mixtures

Applications

Petro-Canada Outboard Motor Oil is an ashless fluid designed for use in high performance, water-cooled, two-stroke cycle engines used to drive outboard motors. Outboard Motor Oil is certified by the NMMA as meeting their **TC-W3™**, **TC-WII™** or **TC-W™** service levels. It may be used in oil injection as well as pre-mixed gasoline/oil lubricated engines at all gasoline/oil ratios specified by the manufacturers.

Engine manufacturers recommending TC-W3, TC-WII or TC-W type oils include:

- Evinrude
- Johnson
- Mercury/Mariner
- Nissan
- Sea King
- Sears/Gamefisher
- Suzuki
- Yamaha

Outboard Motor Oil has been formulated to give excellent protection against rust and corrosion and strongly resists the formation of water gels, a common cause of filter plugging in outboard engines.

Quick Mix Chart

| RATIO GASOLINE TO OIL | MILLILITRES (mL) OIL ADDED TO LITRES OF GASOLINE | | |
|-----------------------------|---|-----------|-----------|
| | 5 LITRES | 10 LITRES | 25 LITRES |
| 16:1 | 315 | 625 | 1550 |
| 24:1 | 210 | 420 | 1050 |
| 32:1 | 155 | 315 | 800 |
| 50:1 | 100 | 200 | 500 |
| 100:1 | 50 | 100 | 250 |

What is the HT difference?

Petro-Canada starts with the patented HT purity process to produce water-white, 99.9% pure base oils. The result is a range of lubricants, specialty fluids and greases that deliver maximum performance for our customers.



Typical Performance Data

| PROPERTY | ASTM TEST METHOD | OUTBOARD MOTOR OIL |
|--|------------------|-----------------------|
| Performance Level | SAE J2116 | NMMA TC-W3 |
| Density @ 15°C/59°F, Kg/L | D4052 | 0.862 |
| Colour | | Blue / Green |
| Kinematic Viscosity cSt @ 40°C/SUV @ 100°F cSt @ 100°C/SUV @ 210°F | D445 / D2161 | 58.6/265 9.2/57 |
| Brookfield Viscosity, cP @ -25°C/-13°F | D2983 | 5,900 |
| Pour Point, °C/°F | D97 | -51/-60 |
| Sulphated Ash, wt % | D874 | 0.0 |
| SAE Fluidity/Miscibility Number @ °C/°F | SAE J1536-95 | F / M 3 @ -25°C/-13°F |
| Total Base Number | D2896 | 10 |

The values quoted above are typical of normal production. They do not constitute a specification.

Health and Safety

Petro-Canada Outboard Motor Oil has no adverse effects on health provided it is used as directed. To obtain Material Health and Safety Data Sheets, contact one of Petro-Canada's TechData Info Lines.

TechData Info Lines

If you would like to know more about Petro-Canada Outboard Motor Oil, or any other product in our complete line of quality lubricants, please contact us at:

**Petro-Canada
Lubricants Centre**
385 Southdown Road
Mississauga, Ontario
L5J 2Y3



Canada - West Phone 1-800-661-1199
- East (English) Phone 1-800-268-5850
(French) Phone 1-800-576-1686
Other Areas Phone (905) 403-6781
Technical Inquiries Fax (905) 403-6875
E-mail lubecsr@petro-canada.ca
Internet www.petro-canada.com

Petro-Canada Europe Lubricants
The Manor, Hasely Business Centre
Warwick, Warwickshire
CV35 7LS
United Kingdom

Phone +44 (0) 2476-247294
 Fax +44 (0) 2476-247295
 Internet www.petrocanada.nl

Petro-Canada America Lubricants
980 North Michigan Avenue
Suite 1400, #1431
Chicago, Illinois
USA 60611

Phone 1-888-284-4572
 Fax (708) 246-8994
 E-mail email@petro-canadaamerica.com