# BIOMARINE OUTBOARD TWO STROKE OIL

**Package Sizes: 1 litre Chamber Pack, 2.5 Litre, 5 Litre, 20 Litre, 205 Litre**
**Product Codes: BIOOUTBTS001, BIOOUTBTS0025, BIOOUTBTS005, BIOOUTBTS020, BIOOUTBTS205**
**Issue: August 2012**

Biomarine Outboard Two Stroke Oil is a full synthetic, highly biodegradable, low smoke, clean burn oil offering less environmental impact than conventional 2 stroke motor oils. It is ashless, meaning soot and other combustion chamber deposits are minimised. Certified for service NMMA TC-W3®.

## Application

Biomarine Outboard Two Stroke Oil is recommended for all types of outboard motors and Jet Skis, and can be used in direct injection engines as well as premix systems at mixing ratios as specified by manufacturer requirements.

Suitable as an upgrade to Marine Outboard Two Stroke Oil.

Not intended for the high combustion temperatures that can occur in land-based air cooled 2-stroke engines or Sea-Doo Jet Skis (use Penrite MC-2ST Full Synthetic Two Stroke Oil).

It is Penrite's prime recommendation for the following applications:

- Evinrude E-TEC engines (may need appropriate reprogramming)
- Mercury Optimax outboards
- Mariner Optimax outboards
- All Nissan 2 stroke outboards
- Tohatsu TLDI Automix outboards

It can also be used in engines from popular manufacturers such as:

- Johnson, Chrysler, Suzuki, Volvo Penta, Yamaha

**Replaces Synmarine Outboard Two Stroke Oil.**

## Customer Benefits

- Low smoke, clean burn performance
- Exceptional wear protection
- Excellent engine cleanliness
- Biodegradable
- Reduces combustion chamber deposits

## Environmental Impact

- Readily biodegradable; 67% according to OECD 301F testing
- Toxicity to aquatic organisms is low
- Meets Canadian Environmental Choice and ICOMIA 27-97 standards

## Industry Specifications and Approvals

API TC NMMA TC-W3® Registration Number RL-33201M

## Typical Data

| | |
|---|---|
| Colour | Blue |
| Density at 15°C, kg/L | 0.960 |
| Viscosity, Kinematic, cSt | |
| at 40°C | 45 |
| at 100°C | 7.9 |
| Viscosity Index | 147 |
| Sulphated Ash, mass % | <0.10 |
| Flash Point, °C | 140 |
| Biodegradability, OECD 301F, % | 67 |
| Base Number, mass % | 8.5 |

Information in this sheet is based on recent production. Minor variations to typical properties are expected in normal manufacture and do not affect product performance. An MSDS is available on request.

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