



# PENRITE



85% REDUCTION IN LANDFILL WASTE

## BIOMARINE OUTBOARD TWO STROKE OIL (Full Syn.)

Last updated: 24/04/2019 11:39 am

PRODUCT CODE	PACK SIZE	CARTON QTY
BIOOUTBTS001	1L	6
BIOOUTBTS005	5L	4

### PRODUCT BENEFITS

**Biomarine Outboard Two Stroke Oil** is a full synthetic **NMMA** (National Marine Manufacturers) **TC-W3®**, fully licensed & registered 2 stroke engine oil. It is highly biodegradable, low smoke, clean burning oil offering less environmental impact than conventional 2 stroke motor oils. It is ashless, meaning soot and other combustion chamber deposits are minimised.

### APPROVALS AND LICENSES

- [Click Here](#) for NMMA TC-W3 License Registration Number RL-38117W



### 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.

**Biomarine Outboard Two Stroke Oil** is suitable as an upgrade to Marine Outboard Two Stroke Oil. It is Penrite's prime recommendation for the following applications:

Evinrude E-Tec*	Evinrude	Mercury Optimax
Mariner Optimax	All Nissan 2 Stroke	Tohatsu TLDI

\* - Evinrude E Tec engines may need reprogramming to run at 100:1 ratio

**Biomarine Outboard Two Stroke Oil** can also be used in engines from popular manufacturers such as:

Chrysler	Johnson	Parsun
Suzuki	Volvo Penta	Yamaha

### MIXING RATIO CHART

FUEL OIL RATIO	PETROL	OIL
25:1	5 Litre	200ml
50:1	5 Litre	100ml
100:1	5 Litre	50ml

[Click here](#) to view a comprehensive mix ratio chart

**Biomarine Outboard Two Stroke Oil** is NMMA Certified for service NMMA TC-W3® at the engine manufacturer's recommended fuel/oil ratio.

**Please Note** - 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).



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IN LANDFILL  
WASTE**

## **PRODUCT 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

## **MANUFACTURER'S (OEM) APPROVALS & INDUSTRY LICENSES**

- NMMA TC-W3® Registration Number RL-38117W

## **INDUSTRY & MANUFACTURER'S SPECIFICATIONS**

- API TC
- NMMA TC-W3®

## **TYPICAL DATA**

Colour	Blue
Density at 15°C, kg/L	0.940
Viscosity, Kinematic, cSt at 40°C	47
Viscosity, Kinematic, cSt at 100°C	8.2
Viscosity Index	149
Sulphated Ash, Mass %	<0.10
Total Base Number (TBN)	5.2
Biodegradability, OECD 301B, %	69
Biodegradability, CEC L33 A93, %	82
Flash Point, °C	258