

## Puma 2T Outboard TC-W3

### 2 Stroke Outboard Lubricant

Puma 2T Outboard TC-W3 is a lubricant used in petrol-oil mixtures employed in air-cooled and water-cooled two-stroke engines of outboard marine engines and personal water craft. It is formulated with selected components and is perfectly compatible for mixing with all unleaded petrols.

- ✓ Anti-wear Protection
- ✓ Oxidation Resistance
- ✓ 2 Stroke Outboard

### Designed to Perform

#### Low Ash Package

Puma 2 Stroke Outboard Oil is formulated with a complete package of low-ash additives having good detergent characteristics which ensure a clean engine and a clean exhaust system.

#### Applications

Puma 2T Outboard, due to its chemical characteristics is recommended for the lubrication of two stroke water cooled petrol marine engines used in fishing and recreational boats, the most recommended petrol-oil proportion is 50:1.

Lubricant registered at the NMMA (National Marine Manufacturers Association), as recommended for the majority of manufacturers of two stroke engines. It can be recommended for air cooled two stroke engines when applications call for an API TC.

#### Anti-corrosion & Anti-rust Properties

It has particularly good anti-corrosion properties which effectively protect the engine from corrosion, combustion moisture and acids. These additives inhibit the oxidation of internal surfaces of the engine and therefore prevent operating difficulties and breakdown of the oil caused by metallic oxides which would otherwise form within the engine.

#### Unleaded Gasoline Usage

Puma 2T Outboard TC-W3 ensures perfect engine operation with unleaded petrol.

### Puma 2T Outboard TC-W3

Meets the requirements of the following specifications:

- > API : TC-W3

### Typical Physical Characteristics

Property	Temp	Units	Test Methods	2 Stroke Outboard
Kinematic Viscosity	@ 40°C	cSt	ASTM D445	39.06
Visual Colour	-	-	IT-08-09	Blue
Sulphated Ash	-	%	ASTM D874	0.04
Viscosity Index	-	-	ASTM D2270	128
Flash Point (COC)	-	°C	ASTM D92	127
Total Base No	-	mg KOH/g	ASTM 2896	3.95
Density	@ 20°C	g/ml	ASTM 1250	0.8576

*These characteristics are typical of current product methods whilst future production will conform to Puma Lubricants specifications, variations in these physical characteristics may occur.*

### Health & Safety Environment

- > This product is unlikely to present any significant health and safety hazard when properly used in the recommended application and good standards of personal hygiene are maintained.
- > Avoid contact with eyes and skin, use proper impervious gloves with used oil. After skin contact, wash immediately with soap and water. Guidance on health and safety is available on the appropriate Safety Data Sheet (SDS) which can be obtained from [sds.pumaenergy.com.au](https://sds.pumaenergy.com.au)

### Protect the Environment

- > Take used oil to an authorised collection point. Do not discharge used or new oil into drains, soil or water.

### Additional Information

- > Technical advice may be obtained from your Puma Energy Representative.