



# Havoline Outboard 2T

## Two-cycle outboard engine oil

### Product description

Havoline® Outboard 2T is a two-cycle engine oil formulated for water-cooled two-cycle outboard engines and personal water craft applications requiring NMMA TC-W3® approval.

Havoline Outboard 2T is a mineral-based formulation with an ashless additive package and a high flashpoint diluent system to optimise performance.

### Customer benefits

- Designed for protection against rust, wear and corrosion, and cylinder wall scuffing under high speed engine operating conditions
- Optimal protection against spark plug fouling and surface ignition, exhaust port plugging, ring sticking and varnish formation
- Formulated to resist low temperature gel formation, optimising engine performance

### Product highlights

- **Designed for rust, wear, corrosion, and cylinder wall scuffing protection**
- **Offers spark plug fouling, exhaust port plugging, ring sticking resistance**
- **Formulated to resist low temperature gel formation**

**Selected specification standards include:**

NMMA

## Applications

- Havoline Outboard 2T is recommended for water-cooled two-cycle outboard engines and personal water craft applications
- Havoline Outboard 2T is formulated for use at most engine manufacturers fuel/oil ratios and is well suited for use in oil-injected engines as well as in engines where the oil is mixed with gasoline
- Havoline Outboard 2T is miscible with gasoline, even at low temperatures

## Approvals, performance and suitable for use

### Approvals

- NMMA\* TCW-3® License Number RL-405015A

## Typical test data

Test	Test Methods	Results
<b>Viscosity Grade</b>		<b>SAE F/M 3</b>
Density at 15°C, kg/l	ASTM D4052	0.873
Kinematic viscosity at 40°C, mm <sup>2</sup> /s	ASTM D445	54
Kinematic viscosity at 100°C, mm <sup>2</sup> /s	ASTM D445	8.7
Viscosity Index	ASTM D2270	138
Pour point, °C	ASTM D5950	-39
Flash point COC, °C	ASTM D92	134
Sulphated Ash, %wt	ASTM D874	<0.01
Colour	Visual	Blue

\* NMMA: National Marine Manufacturers Association

The typical test data set out above does not constitute a specification. It is indicative only and can be affected by allowable production tolerances. Chevron may modify this test data. Modified data will supersede all previous data, so please ensure you refer to the latest version of this Product Data Sheet (PDS).

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