



PRODUCT DATA SHEET

NATIONAL™ TC-W3®

High Performance Ashless Outboard Engine Oil

PRODUCT DESCRIPTION

NATIONAL™ TC-W3® engine oil is a high performance, ashless two-cycle motor oil for water –cooled and air cooled engines. It is designed for use in both premix and injected systems*.

INDUSTRY AND OEM SPECIFICATIONS

- ◆ NMMA® TC-W3® licensed (R-20111)
- ◆ Meets JASO FB
- ◆ API TC

APPLICATIONS

NATIONAL™ TC-W3® engine oil meets the warranty requirements for water cooled two-cycle engines manufactured by Chrysler, Evinrude, Force, Johnson, Mariner, Mercury, OMC, Suzuki and Yamaha. It is recommended for motor cycles, lawn mowers, snowmobiles, snow blowers, chain saws and other air cooled two-cycle engines requiring JASO FB and or API Service Category TC.

FEATURES

- ✓ Advanced ashless technology to protect two cycle engines against varnish and sludge
- ✓ Excellent low temperature properties
- ✓ It is dyed blue for easy identification

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The product described above is designed for a specific use and may not be valid for other uses not specified in our specification sheet or in applications not requiring this specific product. Pinnacle Oil believes that the information presented in this specification is accurate at the time written and is based upon internally generated information and information as presented by its vendors. No representation, warranty, or guarantee is made as to its accuracy or completeness. We do not accept any liability for any loss or damage that may occur from the use of this information.



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TECHNICAL DATA *(typical values)*

TC-W3®

	ASTM	
Product Number		07-705050
License Number		RL-20111
SDS Number		S018
Viscosity @ 100°C, cSt	D445	7.54
Viscosity @ 40°C, cSt	D445	41.22
Viscosity Index	D2770	152
API Gravity	D1250	32.1
Pour Point, °C	D5950	-60
Flash Point (PM Closed Cup), °C	D93	98
Nitrogen, %w	D4629	0.35
Sulfur, %w	D2622	0.45
Color	Visual	Blue
Brookfield Viscosity, cP	D2983	28,000 (-40°C) 4,300 (-25°C)

**Always follow your operator's manual*
The recommended shelf life for these oils is typically 48 months from manufacturing date when stored properly in the original sealed containers.

TC-W3® is a registered trademark of  National Marine Manufacturers Association

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