HAVOLINE® 2-CYCLE ENGINE OIL TC-W3®

PRODUCT DESCRIPTION

Havoline® 2-Cycle Engine Oil TC-W3® is a general purpose oil for air and water cooled 2-cycle engines.[1]

CUSTOMER BENEFITS

Havoline 2-Cycle Engine Oil TC-W3 delivers value through:

- **Exceptionally clean engines** with minimum combustion chamber deposits, negligible port clogging, clean ring grooves, and free rings.
- **Excellent rust protection**
- **Long spark plug life**
- **Easy mixing and stable mixtures with gasolines** even at low ambient temperatures.

FEATURES

Havoline 2-Cycle Engine Oil TC-W3 is a high quality two stroke engine lubricant that delivers excellent performance in water-cooled and air-cooled applications. It is formulated to provide excellent lubrication and deposit control in a wide range of applications.

Havoline 2-Cycle Engine Oil TC-W3 contains a special ashless detergent designed to help keep piston rings from sticking promoting smooth and efficient engine operation. Havoline 2-Cycle Engine Oil TC-W3 will help keep the engine clean of deposits and will also protect the pistons from scuffing and preignition problems.

To enhance storage and transportation safety, Havoline 2-Cycle Engine Oil TC-W3 contains a high flash solvent. This solvent also allows good mixing with gasoline at very low temperatures.

It is dyed teal blue for easy identification of fuel-oil mixtures in pre-mixed applications.

APPLICATIONS

Havoline 2-Cycle Engine Oil TC-W3 is recommended for use in two-stroke engines where TC-W3 or earlier general purpose lubricants are recommended. These applications include outboard engines, motorcycles, lawn mowers, scooters, golf carts, chain saws, and other two-stroke powered equipment.

Havoline 2-Cycle Engine Oil TC-W3 is well suited for engines using oil injection systems with fuel/oil mixture ratios of up to 150:1.

Havoline 2-Cycle Engine Oil TC-W3 has excellent low temperature mixing characteristics that make it suitable for use in cold climate conditions.

Havoline 2-Cycle Engine Oil TC-W3:

- is licensed under the NMMA TC-W3 performance standard.
  - El Salvador Registration: #RL-406874D
  - Colombia Registration: #RL-697232A
- is recommended for API TC requirements for use in air-cooled two-stroke applications

The mixing chart below is a guide for correct fuel-blend ratios as recommended by engine manufacturers.

Ounces of oil to add:

Gallons of Gasoline	1	2	3	4	5	6
16:1 Ratio	8	16	24	32	40	48
24:1 Ratio	5	11	16	21	27	32
32:1 Ratio	4	8	12	16	20	24
50:1 Ratio	3	5	8	11	13	16
100:1 Ratio	2	3	4	6	7	8

1 TC-W3 is a registered trademark of The National Marine Manufacturers Association.

Product(s) manufactured in the USA, Colombia and El Salvador.
Always confirm that the product selected is consistent with the original equipment manufacturer's recommendation for the equipment operating conditions and customer's maintenance practices.

A **Chevron** company product

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PCMO-100

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TYPICAL TEST DATA

Product Number	*221896*
SDS/MSDS Number *USA* *Colombia* *El Salvador*	 *8629* *33698* *33699*
Density at 15°C, kg/L	0.8706
Viscosity, Kinematic, cSt at 100°C	9.5
Viscosity, Brookfield, cP at -25°C	7060
Flash Point PM, °C(°F)	98(208)
Sulfated Ash, wt %	0
Base Number, ASTM D2896	4.7

Minor variations in product typical test data are to be expected in normal manufacturing.

Always confirm that the product selected is consistent with the original equipment manufacturer's recommendation for the equipment operating conditions and customer's maintenance practices.