



Synjex® TC-W3® 2-Cycle Motor Oil

Phillips 66® Synjex TC-W3 2-Cycle Motor Oil is a premium quality, full-synthetic, ashless engine oil designed for use in high-performance water-cooled 2-stroke cycle engines, and in most air-cooled 2-stroke cycle engines. It is particularly recommended for use in equipment operating at very low ambient temperatures. It is suitable for use for TC-W3 applications, and also meets API TC and JASO FB performance requirements for use in air-cooled 2-stroke cycle engines. It may be used in either direct injection (DI) or premix engines.

Synjex TC-W3 2-Cycle Motor Oil is formulated to minimize piston ring sticking and exhaust port deposits to maintain good power output in 2-stroke cycle engines. It also protects against piston and cylinder scuffing and helps reduce spark plug fouling and pre-ignition problems. It provides rust and corrosion protection in service and during storage. It is pre-diluted with a high-flash solvent for easy mixing with gasoline at low temperatures for premix applications. The synthetic base oil provides outstanding low-temperature performance. It also contains a synthetic polymer to help reduce exhaust smoke.

Synjex TC-W3 2-Cycle Motor Oil is environmentally friendly. It has low aquatic toxicity and meets the classification of readily biodegradable in the Modified Sturm carbon dioxide evolution test.

Applications

- Outboard marine engines
- Personal watercraft
- Motorcycles, scooters, and all-terrain vehicles (ATVs)
- Snowmobiles
- Low output chainsaws
- Lawn-care equipment (mowers, weed trimmers, leaf blowers)

Synjex TC-W3 2-Cycle Motor Oil is suitable for use under the following industry specification:

- NMMA TC-W3®

Synjex TC-W3 2-Cycle Motor Oil meets or exceeds the requirements of:

- API Service TC
- JASO FB

Features/Benefits

- Ashless detergent/dispersant formulation helps minimize engine deposits and pre-ignition
- Minimizes piston ring sticking and helps reduce exhaust port blocking
- Protects against piston and cylinder scuffing

Premium Full-Synthetic Ashless Engine Oil for 2-Stroke Cycle Engines





- Excellent lubricity for use in high-output outboard engines
- Reduces spark plug fouling
- Excellent rust and corrosion protection
- Outstanding low temperature performance
- Keeps engine parts clean
- Readily biodegradable
- Low aquatic toxicity
- Mixes easily with gasoline at low temperatures for premix applications
- Dyed for easy visibility when mixed with gasoline
- Suitable for either direct oil injection or premix engines⁽¹⁾

⁽¹⁾ **Note:** For premix engines, always follow the manufacturer's recommendation for choosing the proper fuel-to-oil mixing ratio.

Synjex[®] TC-W3[®] 2-Cycle Motor Oil

Typical Properties	
Specific Gravity @ 60°F	0.941
Density, lbs/gal @ 60°F	7.84
Color, ASTM D1500	Purple
Flash Point (COC), °C (°F)	140 (284)
Flash Point (PMCC), °C (°F)	117 (243)
Pour Point, °C (°F)	-40 (-40)
Viscosity, Kinematic	
cSt @ 40°C	51.1
cSt @ 100°C	8.6
Viscosity Index	145
Sulfated Ash, ASTM D874, wt %	<0.001

Health & Safety Information

For recommendations on safe handling and use of this product, please refer to the Safety Data Sheet via <http://www.phillips66.com/EN/products/Pages/MSDS.aspx>.