Royal Purple TCW III 2-Cycle™

Two-Cycle Gasoline Engine Oil

Beyond Synthetic™

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Royal Purple TCW III 2-Cycle™ is recommended for use in both pre-mixed and injected gasoline two-cycle engines in outboard motors, motorcycles, jet skis, chain saws, etc.

Royal Purple TCW III 2-Cycle™ is a high performance, engine oil that improves performance and reduces wear in both standard and high performance two-cycle gasoline engines. Royal Purple TCW III 2-Cycle™ has synthetic solvency that keeps spark plugs and exhaust ports clean for maximum engine efficiency. This engine cleanliness combined with the low coefficient of friction of Royal Purple TCW III 2-Cycle™ promotes increased horsepower and engine speed. Engines operate with greater combustion efficiency and go longer between overhauls when lubricated with Royal Purple TCW III 2-Cycle™.

Synerlec® additive technology makes the difference!

Synthetic oils enable Royal Purple to make superior lubricants, but it is Royal Purple's advanced Synerlec® additive technology that gives it's lubricants their amazing performance advantages. Synerlec® additive technology truly is *beyond synthetic*.™

Synerlec® additive technology forms a tough, slippery, synthetic film on all metal surfaces. This proprietary film significantly improves lubrication: first, by increasing the oil film's thickness, and second, by increasing the oil film's toughness, both of which help to prevent metal-to-metal contact. It displaces moisture from metal surfaces and protects all metals against rust and corrosion. It also fortifies the oil against the detrimental effects of heat, which causes oil to oxidize.

Note:

Royal Purple TCW III 2-Cycle™ is suitable for premix in snowmobiles but due to cold soak (low temperature pumpability issues on oil injected snowmobiles) Royal Purple SNO 2-C is recommended for operation in temperatures below 20˚F.

Exclusive Performance Advantages:

- Greater Wear Protection
- Clean, Efficient Engines
- Outstanding Rust / Corrosion Protection
- Increased RPMs (horsepower)

Typical Properties*

Viscosity	
cSt @ 40˚C	37.5
cSt @ 100˚C	6.3
SUS @ 100˚F	193
SUS @ 210˚F	48
Flash ˚F	230
Fire ˚F	275
Pour ˚F	-35
Corrosion Oxidation Tests	
3 hrs. @ 210˚F	1a
24 hrs. @ 210˚F	1a
Rust Test	
Fresh Water	Pass
Salt Water	Pass
Dry Air Oxidation (≤ 6% = pass)	
312 hours @ 203˚F,	
% viscosity increase	0
4-Ball Wear Test	
1800 RPM @ 130˚F, 20 kg.	
Scar Diameter	0.42
4-Ball Weld Test, kg.	315

*All properties are typical and may vary.

Royal Purple, Ltd. • 1 Royal Purple Lane • Porter, Texas 77365
Phone: 281-354-8600 • Fax: 281-354-7600 • www.royalpurple.com