



PRODUCT DATA SHEET

GIANT SYN OUTBOARD TCW3

Fully Synthetic Water-Cooled Two-Stroke Motor Oil

DESCRIPTION

GIANT SYN OUTBOARD TCW3 is a fully synthetic water-cooled two-stroke motor oil specifically designed for use in high performance marine two-stroke engines even under severe operational conditions like towing heavy loads or straining to re-float grounded vessels in rescue boat operations. It is a premium ashless formulation field tested and proven in Seatow's twin-engine rescue crafts as well as in Mercury's 200 HP Outboard engines with excellent results. Its fully synthetic base stock and premium additive package ensures a clean engine with field tests showing powerful protection from ring-jacking and other results meeting all the stringent requirements of NMMA's TC-W3.

GIANT SYN OUTBOARD TCW3 has superb smoke control, effective detergency and lubricity, as tested with different types of solvents during operations. The additive package chemistry has extremely low aquatic toxicity to marine life and has obtained a LC50 result greater than 10,000 ppm during severe dispersion testing.

BENEFITS

- Meets or exceeds the warranty requirements of most manufacturers for 2-stroke water-cooled motors with a specification for API TC-W3.
- Exceptional smoke control, ash-free, effective detergency and good lubricity.
- Keeps the engine clean and in good condition, even while operating at high temperatures and severe work conditions.
- Excellent control to prevent piston varnish and ring jacking.
- No piston scuffing, no preignition and no spark plug fouling.
- Low aquatic toxicity to fish.

PERFORMANCE STANDARDS

- API TC-W3

TYPICAL APPLICATIONS

- Water-cooled 2-stroke engines with direct oil injection (even up to 100:1 ratio) or premixed systems.
- Marine outboard motors.

TYPICAL PROPERTIES

SAE	20
Specific Gravity	0.8743
Kinematic Viscosity, cSt @ 40°C	84.1
Kinematic Viscosity, cSt @ 100°C	10.9
Viscosity Index	117
Flash Point, °C	98