



The First in Synthetics®

DOMINATOR® Synthetic 2-Cycle Racing Oil (TDR)

• JASO FC • API TC

DOMINATOR®, an AMSOIL exclusive formulation, lubricates and protects high-performance two-cycle motors, both on and off the track. High-performance motors, particularly those that are modified, operate hotter and at higher RPM than recreational motors, and they need good oil for peak performance. DOMINATOR is engineered for racing. It has the right film strength and clean-burning properties for “on the edge” operation.

Super Film Strength

High-performance two-cycle motors have high compression ratios, which significantly increases combustion chamber heat and crankshaft bearing pressures. Hot combustion processes quickly burn off and evaporate light oils and cause rapid piston expansion, decreasing piston-to-cylinder wall clearances. This promotes piston scuffing and possible seizure, and increased pressure on crankshaft bearings promotes metal-to-metal contact, wear and pitting.

High heat and pressures require tough oil with better film strength and more lubricity. DOMINATOR, constructed with AMSOIL heavy synthetic oil, handles high heat better than mineral oils and provides improved film strength and lubricity. DOMINATOR reduces friction and provides an extra measure of protection against piston scuffing and crankshaft bearing wear.

Clean Burning

High combustion processes require the proper additives and oils to control deposits. DOMINATOR contains strong, high-temperature detergent additives and highly pure AMSOIL synthetic oil. It helps prevent deposits that cause ring sticking, plug fouling and exhaust port blocking. DOMINATOR is an optimized product for severe service.



- *Provides excellent film strength for high-heat, high-RPM motors*
- *Reduces friction for maximum power*
- *Recommended for use with coated or non-coated racing pistons*
- *Suitable for use with exhaust power valves*
- *Recommended for use with high-octane racing gas*
- *Burns clean; helps prevent ring sticking and plug fouling*
- *Provides excellent protection at 50:1 pre-mix or in injection systems*



TYPICAL TECHNICAL PROPERTIES DOMINATOR® Synthetic 2-Cycle Racing Oil (TDR)

Kinematic Viscosity @ 100°C, cSt (ASTM D-445)	7.7	Pour Point, °C (°F) (ASTM D-97)	-46 (-51)
Kinematic Viscosity @ 40°C, cSt (ASTM D-445)	41.4	Flash Point, °C (°F) (ASTM D-92)	92 (198)
Viscosity Index (ASTM D-2270)	157	Fire Point, °C (°F) (ASTM D-92)	92 (198)

APPLICATIONS

DOMINATOR® is recommended for use in high-performance stock or modified two-cycle motors, including air- or liquid-cooled snowmobiles, personal watercraft, motorcycles (Moto X), ATVs, go-carts and outboard motors*. Good for use with coated or non-coated pistons, high-octane racing fuels and exhaust power valves.

Compatible with most other two-cycle oils, however, mixing oils should be minimized.

Use at 50:1 pre-mix ratios (2.6 oz. oil per U.S. gallon of gas) or as injection oil where JASO FC or API TC oils are specified. Not suitable for use with alcohol or nitro-methane fuels.

AMSOIL 2-CYCLE OIL RECOMMENDATIONS

AMSOIL 2-Cycle Oil	Outboard	Snowmobile, Motorcycle & ATV	Personal Watercraft & Jet Boat	Chain Saw, Chop Saw & Pump	Weed Eater, Blower & Lawn Mower	Moped, Scooter & Go-Cart
HP Injector (HPI) TC-W3, API TC (Injection or 50:1 Pre-Mix)	Excellent (4) (5)	Very Good	Very Good	Not Recommended	Not Recommended	Not Recommended
INTERCEPTOR (AIT) API TC, JASO FC (Injection or 50:1 Pre-Mix)	Not Recommended	Excellent (4)	Excellent (3) (4)	Good	Good	Good
DOMINATOR (TDR) API TC, JASO FC (Injection or 50:1 Pre-Mix)	Racing (1)	Racing (2)	Racing (2) (3)	Very Good	Very Good	Very Good
Saber Professional 100:1 Pre-Mix (ATP) ISO-L-EGD, JASO FD, API TC	Not Recommended	Very Good Pre-Mix Only	Very Good Pre-Mix Only (3)	Excellent	Excellent	Excellent
Saber Outboard 100:1 Pre-Mix (ATO) TC-W3, API TC	Excellent Pre-Mix Only	Very Good Pre-Mix Only	Very Good Pre-Mix Only	Not Recommended	Not Recommended	Not Recommended

Equipment manufacturers and motor builders have redesigned two-cycle motors to reduce emissions and increase fuel economy. These changes have increased operating temperatures, reduced oil consumption and incorporated direct fuel injection and exhaust power valves. AMSOIL 2-Cycle Oils are designed to maximize performance in all types of engine designs and are optimized for select applications.

Even though AMSOIL 2-Cycle Oils have been optimized for specific applications, they are multi-functional and recommended for use in many areas. The chart rates each oil's performance abilities per application as follows:

Excellent: The primary recommendation for the oil. The oil is specifically designed for the operating conditions of the motors in these markets. There is only one "Excellent" recommendation per category.

Very Good: A main recommendation for the oil. Identifies an oil that is very good for the operating conditions of these motors.

Good: A secondary recommendation for an oil. The oil was not specifically designed for these applications. However, the chemistry in the oil is suited to the operating conditions of these motors.

Not Recommended: Identifies applications where the product was not intended for use.

- Notes:**
- * (1) Not recommended for long-term use in outboard motors as a TC-W3 type oil, although excellent as a racing oil for short term use where motors are periodically inspected.
 - (2) Excellent for racing or modified motors. Very good for recreational use.
 - (3) For applications calling for a TC-W3 product use the recommendations listed under Outboards.
 - (4) Recommended for all direct fuel injected (DFI), electronic fuel injected (EFI) and carbureted motors.
 - (5) Includes Mercury® Optimax®, Johnson® & Evinrude® FIGHT® & E-TEC™, Yamaha® HPDI, Nissan® & Tohatsu® TLDI®.

DANGER: Harmful or fatal if swallowed. Contains synthetic lubricant and petroleum distillates. If swallowed, do not induce vomiting. Contact a physician immediately. Avoid frequent or prolonged skin contact. Wash skin thoroughly with soap and water after handling. Avoid eye contact. Flush eyes with water for 15 minutes in case of contact. **KEEP OUT OF REACH OF CHILDREN.**

AMSOIL products and Dealership information are available from your local AMSOIL Dealer.

