

FS Engine Guard Two-Cycle TC-W3 Engine Oil

Description

FS Engine Guard Two-Cycle TC-W3 is an outboard engine oil certified by the National Marine Manufacturers Association (NMMA). This premium-quality, ashless oil was designed for water-cooled two-cycle outboard engines, but its performance makes it versatile enough to be used in many other applications.

Features and Benefits:

- Inherently gel resistant, even during storage
- Low aquatic toxicity, therefore less harmful to aquatic life
- Excellent low-temperature characteristics: easy to pour and mix with fuel in winter
- Helps keep snowmobile exhaust valves clean
- Very low-smoke formulation
- Provides anti-carbon deposit and anti-piston deposit protection, which allows the piston rings to move freely
- High film strength provides excellent lubricity, which enables engine speeds up to 8,000 rpm with piston scuffing protection
- Passed the severe AF-27 Lubricity Test, a requirement for NMMA Recertified TC-W3 oils in 2004

Product Availability:

| | |
|----------------|--------------|
| 12 x 1 qt. | Item #171158 |
| 55-gal. Drum | Item #171159 |
| 265-gal. Totes | Item #174244 |
| Bulk | Item #174243 |

Applications:

- **Outboard:** FS Engine Guard Two-Cycle TC-W3 Engine Oil is recommended for engines made by Johnson, Evinrude, Mercury, Force, Mariner, Yamaha, Suzuki, Nissan, and Tohatsu. The oil is suitable for both oil injection and premix systems as well as the new low-emission direct fuel injection two-cycle outboard engines. Yamaha, Kawasaki, Arctic Cat, and Polaris personal watercraft will also perform well with FS Engine Guard Two-Cycle TC-W3 Engine Oil.
- **Two-Cycle Snowmobiles:** The excellent low-temperature properties of FS Engine Guard TC-W3 Outboard Two-Cycle Engine Oil ensure engine protection, even under adverse conditions:
 - Pour point of -39°C (-38°F)
 - Fluidity at -40°C (-40°F) of 50,000 cP and fluidity at -25°C (-13°F) of 4,200 cP
- **Two-Cycle Air-Cooled Equipment:** FS Engine Guard Two-Cycle TC-W3 Engine Oil is also suitable for use in air-cooled two-cycle equipment such as chainsaws, lawn and garden equipment, motorcycles, mopeds, scooters, and ATVs. This oil has a higher concentration of performance additives than oils designed only for air-cooled applications (oils without TC-W3 certification).

Typical Properties:

| Test / Description | Specification |
|-------------------------|---------------|
| Viscosity @ 100°C (cSt) | 6.5 |
| Viscosity @ 40° (cSt) | 32.4 |
| Viscosity Index | 160 |
| Density (lb/gal) | 7.206 |
| CCS Viscosity (cP) | NA |
| Pour Point (°C) | -48 |
| Pour Point (°F) | 54 |
| Flash Point (°C) | 80 |
| Flash Point (°F) | 176 |
| Color | dyed |

Recommended Use:

- FS Engine Guard Two-Cycle TC-W3 Engine Oil is recommended for all equipment whose owner's manual require lubricants with the following specifications:
 - All liquid-cooled two-cycle engines requiring: NMMA TC-W3, TCWII, TC-W, or BIA-approved oils
 - Air-cooled two-cycle engines requiring: API TC or JASO FB oils
- FS Engine Guard Two-Cycle Engine TC-W3 Oil's NMMA Certification Number is TC-W3 RL-26040E.
- Always follow the engine manufacturer's gasoline-to-oil ratio recommendation for proper lubrication, found in the equipment owner's manual.