



CITGO® SUPERGARD® Sea & Snow® 2-Cycle Engine Oil

OVERVIEW



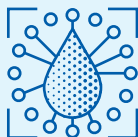
- A synthetic blend, low-smoke oil designed for use in high-performance air- or liquid-cooled 2-cycle engines of personal water craft (PWC) and snowmobiles.
- Provides the necessary protection to keep your snowmobile or PWC running cleaner, longer, and with less smoke.

FEATURES & BENEFITS



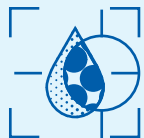
- Formulated primarily for use in snowmobiles and personal watercraft.
- Engineered for lower smoke and advanced protection for air-cooled 2-cycle engines.
- Synthetic blend formula meets or exceeds the rigorous requirements of the API TC, JASO FD, and ISO-L-EGD classifications for 2-cycle air-cooled engine oils.
- Protects against exhaust port blocking, combustion chamber and piston deposits, ring sticking and scuffing, and wear.
- Formulated with premium base oils and a new synthetic, low-ash additive package that provides excellent lubricity and detergency performance that surpasses standards for preventing piston and combustion chamber deposits.
- Synthetic blend reduces exhaust smoke and prevents piston seizure and cylinder scuffing.
- Mixes readily with fuel for pre-mix type, even at low temperatures.
- Can be used in motorcycles, generators, lawnmowers, and handheld power equipment such as leaf blowers, trimmers, and chainsaws.
- JASO FD Certified.

APPLICATIONS



- Recommended for use in air-cooled, 2-cycle applications where an API TC, JASO FD, or ISO-L-EGD product is preferred. This oil supersedes previous JASO and ISO specifications.
- Can be used in either pre-mix or direct injection systems at fuel ratios up to 50:1.
- May also be used in certain motorcycle engines which are liquid-cooled.
- Do not use in engines requiring an NMMA® TC-W3®, TC-WII®, or TC-W® product.
- Refer to equipment owner's manual for proper lubricant recommendation.

PROPERTIES



Typical Properties for CITGO SUPERGARD Sea & Snow 2-Cycle Engine Oil:

Material Code	621612001
Gravity, ASTM D4052, °API	32.0
Density, lb/gal at 60°F	7.21
Flash Point, PMCC, ASTM D93, °F (°C)	185 (85)
Flash Point, COC, ASTM D92, °F (°C)	203 (95)
Viscosity ASTM D445	
cSt at 40°C	55
cSt at 100°C	8.5
Viscosity ASTM D2161	
SUS at 100°F	281
SUS at 210°F	54.8
Viscosity Index, ASTM D2270	129
Pour Point ASTM D97, °F (°C)	-49 (-45)
Appearance, Color	Purple
Sulfated Ash, ASTM D874, %	0.0
Total Base Number, ASTM D2896, mgKOH/g	2.2

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