



CITGO® SUPERGARD® Marine Plus 2-Cycle Engine Oil

OVERVIEW



- A licensed NMMA® TC-W3® oil that effectively combats wear, scuffing, and deposit build-up, and enhances lubricity to provide longer engine life.
- Formulated for naturally carbureted outboard engines.

FEATURES & BENEFITS



- High film strength for improved lubricity provides increased engine efficiency, excellent scuffing protection of rings and cylinders, reduced bearing wear, and cleaner, better-running engines producing less smoke.
- Reduces carbon and deposit build-up on engine parts.
- Helps prevent piston ring sticking.
- Guaranteed to protect OEM engine warranties.

APPLICATIONS



- Recommended for all water-cooled or liquid-cooled 2-cycle engines requiring an NMMA TC-W3, TC-WII®, or TC-W® type oil.
- Can be used in many air-cooled 2-cycle engine applications requiring API Service Category TC.
- Recommended for both direct injected and pre-mix systems.
- Provides protection for gasoline-fueled 2-cycle engines when used at the primary dilution recommended by the original equipment manufacturer.
- Refer to equipment owner's manual for proper lubricant recommendation.

PROPERTIES



Typical Properties for CITGO SUPERGARD Marine Plus 2-Cycle Engine Oil:

Material Code	621602001
Gravity, ASTM D4052, °API	31.5
Density, lb/gal at 60°F	7.23
Flash Point, PMCC, ASTM D93, °F (°C)	178 (81) ⁽¹⁾
Flash Point, COC, ASTM D92, °F (°C)	197 (92)
Viscosity ASTM D445	
cSt at 40°C	32.0
cSt at 100°C	5.9
Viscosity ASTM D2161	
SUS at 100°F	163
SUS at 210°F	46
Viscosity Index, ASTM D2270	130
Pour Point ASTM D97, °F (°C)	-38 (-39)
Appearance, Color	Blue/Green
Sulfated Ash, ASTM D874, %	<0.004
Total Base Number, ASTM D2896, mgKOH/g	8.6

NOTE

(1) Combustible liquid

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