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TECHNEWS

MARINE-TERRAIN 2-Cycle Engine Oil

FEATURES

TC-W3[®] Technology: Marine-Terrain 2-Cycle Engine Oil meets the highest National Marine Manufacturers Association (NMMA) standard, **TC-W3[®]**. It is also suitable for **TC[®]**, **TC-WII[®]**, and **TC-W[®]** service.

Helps Prevent Engine Wear: The **TC-W3[®]** technology in Marine-Terrain provides improved detergency, anti-wear and anti-scuff protection, and enhanced lubricity.

Controls Corrosion: Protects bearings, cylinders, and rings against rust and corrosion.

Reduces Deposit Formation: A premium quality ashless formulation reduces combustion chamber and exhaust port deposits, promotes longer spark plug life, and protects against ring sticking.

Mixes Easily: Mixes well with gasoline when premixing is required. The blend will have a distinctive green color after mixing with gasoline. Marine-Terrain can also be used in oil injection systems in 2-cycle engines.

Applications

Marine-Terrain 2-Cycle Engine Oil is recommended for nearly all 2-cycle outboard engines, personal water vehicles, snowmobile engines, motorcycles, chainsaws, lawn care equipment, and other small horse-power engines. Consult your *Lubrication Recommendations Guide* for further information on specific applications. These recommendations are **only a guide and are not intended to replace the directions in equipment owner's manuals** regarding lubrication recommendations.

Mixing Marine-Terrain with Gasoline:

Marine-Terrain 2-cycle oil is solvent treated for mixing at all temperatures. Still, care must be taken to ensure that the oil and gasoline are mixed well. If possible, mix at temperatures above +50°F. To ensure proper mixing, combine the oil with half the gasoline and shake well. Add the remaining gasoline and shake again. See the mixing table and example on the following page.

TYPICAL PROPERTIES	
Color	Green
Gravity, °API	32.3
Viscosity, cSt@40°C	34.25
cSt@100°C	6.25
Viscosity Index	134
CCS cP @ -25°C	2560
Flash Point, °C	100
Sulfated Ash, % Wt., Max	Nil
Pour Point, °C max	-39



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MARINE-TERRAIN MIXING TABLE

MIXING EXAMPLE:

You wish to prepare 5 gallons with a fuel-to-oil ratio of 30:1. Using the table below, read down the far-left column (“**Fuel to Oil Ratio**”) to “**30:1**” and read across to the “**5 Gallons**” column. The amount of Marine-Terrain required is listed under the “**5 Gallons**” column in pints (1 ½) or ounces (21).

Fuel Mixing Table:

Fuel to Oil Ratio	Pints or Ounces of Oil to Gallons of Gasoline							
	1 Gallon		2 Gallons		5 Gallons		6 Gallons	
	Pints	Oz.	Pints	Oz.	Pints	Oz.	Pints	Oz.
11:1	¾	12	1 ½	23	3 ¾	58	4 ½	70
12:1	¾	11	1 ¼	21	3 ¼	53	4	64
16:1	½	8	1	16	2 ½	40	3	48
20:1	½	6	¾	13	2	32	2 ½	38
24:1	¼	5	¾	11	1 ¾	26	2	32
25:1	¼	5	¾	10	1 ¾	25	2	30
30:1	¼	4	½	8	1 ½	21	1 ½	26
32:1	¼	4	½	8	1 ¼	20	1 ½	24
40:1	¼	3	½	6	1	16	1 ¼	20
42:1	¼	3	½	6	1	15	1	18
50:1	¼	3	¼	5	¾	13	1	16

NMMA Certified for Service TC-W3[®] (Also meets TC[®], TC-WII[®], and TC-W[®])