



Renewable Lubricants, Inc.

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Bio-Synthetic™ TC-WII 2-Cycle Engine Oil



"Bio-based Lubricants that Perform Like Synthetics"

Renewable Lubricant's (RLI) TC-WII 2-Cycle Engine Oil is a readily biodegradable¹ formula with proven technology that has passed the National Marine Manufacturers Association (NMMA) requirements for Water-Cooled TC-W (BIA), TC-WII for 2-Cycle Engine Oil (for older motors), and Air-Cooled API TC. This **Low-Smoke Formula** contains Stabilized Technology to improve fuel stability.

RLI's TC-WII 2-Cycle Engine Oil has been especially designed to operate in water-cooled gasoline engines for the boating industry, and in 2-cycle air-cooled engines for general-purpose equipment and for personal and recreational transportation, such as motorcycles, snowmobiles, chain saws, and lawn and garden equipment. RLI's TC-WII 2-Cycle Engine Oil meets and exceeds Motorcycle API TC and Husqvarna Chain Saw requirements.

RLI's TC-WII 2-Cycle Engine Oil does not utilize a solvent to increase gasoline miscibility. This feature offers a significant safety advantage since the product has a flash point of 365⁰F and is, therefore, not classified as flammable or combustible according to OSHA or D.O.T. regulations. RLI's TC-WII 2-Cycle Engine Oil is readily biodegradable and has the potential of one product servicing both water-cooled and air-cooled 2-cycle engines.

Typical Characteristics

Property	Typical Value	Method
Viscosity, cSt 100 ⁰ C	10.4	ASTM D-445
Viscosity, cSt 40 ⁰ C	63	ASTM D-445
Viscosity Index	155	ASTM D-2270
Flash point, ⁰ C	185	ASTM D-93
TBN (mg KOH/gm)	2.94	ASTM D-2896
Pour Point, ⁰ C	-34	ASTM D-97

Bench Tests

Compatibility with Mineral Oil	Pass
Filterability	Pass
Fuel Miscibility	Pass
Rust	Pass
Biodegradability: CEC-L-33-A-94	(84%)

Engine Tests

TC-W2 Johnson 40 hp	
Varnish	8.7/6.2/Pass
Ring Stick	9.0/7.8/Pass
Yamaha CE50S	
Lubricity (>Ref.)	4.75/6.26
West Bend Deposit	
Piston Varnish	9.7
Ring Stick	8.8
Port Blocking (%)	4

STABILIZED by Renewable Lubricants* is RLI's trademark on their proprietary and patented anti-oxidant, anti-wear, and cold flow technology. High Oleic Base Stock (HOBS) are agricultural vegetable oils. This Stabilized technology allows the HOBS to perform as a high performance formula in high and low temperature applications, reducing oil thickening and deposits.

¹ Readily Biodegradable >80% within 21 days in CEC L-33-T-82 test.

Patented Product: US Patent 6,383,992, US Patent 6,534,454 with additional Pending and Foreign Patents

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Availability **F.O.B. :Bolton, ON, Canada** **5 Gallon Pails** **Drums** **Bulk**