



Renewable Lubricants, Inc.

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Bio-Fleet™ TC+ 2-Cycle Engine Oil



"Biobased Lubricants that Perform Like Synthetics"

Bio-Fleet™ TC+ 2-Cycle Engine Oil is a patented, readily biodegradable¹ biobased formula with improved additive technology that meets and exceeds API TC+ for high performance air-cooled 2 Cycle Engines. This improved additive technology provides additional antiwear/anti-scuffing protection and is recommended for used in lawn and garden equipment, chain saws, snow blowers, motor scooters, mopeds, air-cooled snowmobiles, and air-cooled marine engines.

Bio-Fleet™ TC+ contains enhanced lubricity boosters and additional cleanliness chemistry that improves lubrication performance for high output Motorcycle and Husqvarna Chain Saw 242/266 requirements. It is specifically formulated to reduce visible smoke and burn clean, minimizing deposits and carbon buildup, and preventing ring sticking and spark plug fouling. In addition, this technology minimizing deposits and carbon buildup in equipment operating at high and low RPMs.

Bio-Fleet™ TC+ is recommended in both carbureted and Direct Fuel Injected (DFI) systems. This ashless, Low-Smoke Formula contains **Stabilized*** Technology to improve fuel stability.

For premixed fuel-oil systems, see owner's manual for recommended fuel: oil ratio.

Typical Characteristics

Physical Properties

| | Typical Value | Method |
|------------------------|---------------|---------------|
| Viscosity, cSt 100°C | 7.6 | ASTM D-445 |
| Viscosity, cSt 40°C | 42.3 | ASTM D-445 |
| Viscosity Index | 149 | ASTM D-2270 |
| Flash point, °C | 98 | ASTM D-93 |
| TBN (mg KOH/g) | 5.9 | ASTM D-2896 |
| Pour Point, °C | -33 | ASTM D-97 |
| Cloud point, °C | -11 | ASTM D-2500 |
| Brookfield @ -25°C, cP | <7500 | ASTM D-2988 |
| Biodegradability | >80% | CEC-L-33-A-94 |
| Sulfated Ash | <0.001 | ASTM D-874 |
| Nitrogen % wt. | 0.22 | ASTM D-3228M |

Bench & Engine Tests

| | | |
|-------------------|------|------------------|
| Compatibility | Pass | NMMA CTCW |
| Filterability | Pass | NMMA FPT |
| Fuel Miscibility | Pass | ASTM D-4682/#992 |
| Rust | Pass | NMMA |
| Lubricity | Pass | AF-27 |
| Piston Varnish | Pass | |
| Piston Deposit | Pass | |
| Ring Stick | Pass | |
| Bearing Condition | Pass | |
| Port Blocking | Pass | |
| Scuffing | Pass | |

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

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.

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

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| <u>Availability</u> | <u>F.O.B. : Hartville, Ohio, USA</u> | <u>Quart</u> | <u>1 Gallon</u> | <u>5 Gallon Pail</u> | <u>Drum</u> | <u>Totes</u> | <u>Bulk</u> |
|---------------------|--------------------------------------|--------------|-----------------|----------------------|-------------|--------------|-------------|
| Product Item # | | 85881 | 85883 | 85884 | 85886 | 85887 | 85889 |