



# Renewable Lubricants, Inc.

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## Bio-SynXtra™ Trans-Drive Fluids (10W, 30, & 50)



### *"Biobased Lubricants that Perform Like Synthetics"*

Bio-SynXtra™ Trans-Drive Fluids are biobased Ultimate Biodegradable<sup>1</sup> transmission and final drive fluids that contain improved biosynthetic base stocks and a advanced TO-4/To-4M additive package for use in Caterpillar and other off-highway equipment specifying TO-4 and TO-4M fluids. They provide excellent service in final drives, hydrostatic transmissions, torque converters, +9hydraulics systems, and all other Original Equipment Manufacturers requiring Allison C-4, Caterpillar power-shift transmissions (SAE 10W and SAE 30), API CD/CF/CF-2, CAT TO-2/TO-4 and TO-4M specified fluids including: Terex, Euclid, Komatsu KES 07.868.1, Komatsu Dresser, Dana Power Shift, ZF Power Shift, ZF TE-ML 03C / ZF TE-ML 07F, Ford Type F (SAE 10W), Eaton Vickers EH-1027, Vickers M-2950-S, 35VQ-25 vane pump requirements, Eaton Fuller and Temec/TTC manual transmissions, and API GL-3 Gear Drives.

#### Typical Specifications

<u>SAE Engine Oil Viscosity</u>	<u>10W</u>	<u>30</u>	<u>50</u>
VISCOSITIES:			
@100°C., cSt. (D-445)	6.2	10.71	18.48
@40°C., cSt. (D-445)	30.02	56.04	108.15
Viscosity Index (D-2270)	162	185	191
HT/HS@ 150°C	2.9	3.5	5.0
Brookfield Viscosity cP	<30,000(-35°C)	<60,000(-25°C)	<45,000(-15°C)
MRV TP-1 cP	<6700@-25°C	<9100@-15°C	<12000@-5°C
Flash Point, COC, °C (D-92)	230	260	262
Pour Point, °C (D-97)	-40	-34	-30
Copper Corrosion Strip 3hr @ 100°C (D-130)	1A	1A	1A
4 Ball Wear, 1h, 167°F, 1200 RPM, 40kg (D-4172)	.40	.40	.40
Foam Sequence I, II, III (D-892)	0	0	0
Rust Prevention (D-665 A&B)	Pass	Pass	Pass
<b>RLI Product Item #</b>	<b>81274</b>	<b>81284</b>	<b>81294</b>

#### Features

- (1) Super high viscosity index and low pour point for wider temperature usage
- (2) Outstanding frictional characteristics
- (3) Fortified with additives to resist wear, oxidation, rust and foam
- (4) Excellent thermal protection
- (5) Excellent gear protection

Bio-SynXtra™ Trans-Drive Fluids meet the Environmental Protection Agency (EPA) 2013 Vessel General Permit (VGP) guidelines for Environmentally Acceptable Lubricants (EALs), and should be used where **LOW TOXICITY, BIODEGRADABILITY** and **NON-BIOACCUMULATION** properties are required. They exceed the acute toxicity (LC-50 / EC-50 >100 ppm/100mg/Lt) criteria adopted by the US Fish and Wildlife Service and the US EPA. Bio-SynXtra™ Trans-Drive Fluids are **ENVIRONMENTALLY RESPONSIBLE** lubricants that are formulated from renewable agricultural resources. We believe Earth's environmental future rests in the use of renewable material.

#### <sup>1</sup>Ultimate Biodegradation (Pw1) within 28 days in ASTM D-5864 Aerobic Aquatic Biodegradation of Lubricants

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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**Availability**    **F.O.B. :Hartville, Ohio, USA**    **Quarts**    **1 Gallon**    **5 Gallon Pail**    **Drum**    **Totes**    **Bulk**