



ISO-9001 Registered Quality System.  
ISO-21469 Compliant.

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## **LUBRIPLATE UTF Biobased Green**

### ***“Biobased Lubricants that Perform Like Synthetics”***

LUBRIPLATE UTF Biobased Green is a universal tractor fluid that incorporates Stabilized\* additive technology with biodegradable vegetable based stocks. This formulation contains special frictional modifiers for the Wet Brake's equipment design and is compounded with detergent, dispersant, anti-wear, anti-rust and anti-foam inhibitors. LUBRIPLATE UTF Biobased Green is an ultimately biodegradable<sup>1</sup>, multi-grade lubricant that can be used in agricultural, industrial and construction equipment and has proven field performance.

Meets or exceeds all of the requirements of John Deere's Hygard (Specification J20-C); Allison C-3, Cat TO-2 and API GL-4, Low-Speed/High Torque.

Meets and exceeds universal tractor specifications for OEMs.

#### **John Deere**

J20C, J14A  
Quantrol™  
J20D

#### **Case International**

JIC-145/MS-1210  
JIC-185/MS-1204  
MS-1205, MS-1127, M1129-A

#### **Ford**

M2C134-D  
M2C86-C, M2C86-B  
M2C41-B, M2C48-B  
M2C53-A, M2C134-A  
M2C134-B, M2C134-C

#### **White Farm**

Q-1826  
Q-1705, Q-1766, Q-1802

#### **Duetz-Allis**

#### **Landini**

#### **Fiat-Hesston**

#### **Massey-Ferguson**

M1135, M1141  
M1110, M1127, M1129-A

#### **Transmission OEM's**

ATD Allison C-4

#### **Kubota**

#### **Steiger**

#### **Versatile**

LUBRIPLATE UTF Biobased Green is an ENVIRONMENTALLY RESPONSIBLE hydraulic fluid that is formulated from renewable, agricultural plant resources. We believe Earth's environmental future rests in the use of renewable materials.

High Oleic Base Stocks (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.

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

**LUBRIPLATE UTF Biobased Green is available in the following packaging:**

#### **Container Size**

5-Gallon Pail  
55-Gallon Drum

#### **Part No.**

L1072-060  
L1072-062

(Over for Test Data)

## **LUBRIPLATE UTF Biobased Green**

<b><u>Test</u></b>	<b><u>Typical Results</u></b>	<b><u>Specification Limits</u></b>
Viscosity @ 100°C (ASTM D-445)	10.26	9.10 min.
Viscosity @ 40°C (ASTM D-445)	47.8	None
Viscosity Index (ASTM D-2270)	210	140
Shear Stability Orbahn (ASTM D-6278)		
Vis. @ 100°C (after shear)	9.38	9.10 min.
Brookfield Viscosity (ASTM D-2983)		
@ -20°C	1,650	4,500 max.
5,500 per J. Deere		
@ -35°C	11,150	70,000 max.
Flash Point, °C	251	200 min.
Stable Pour Point, °C	-39	-37 max.
Oxidation Stability JDQ 16		
Evaporation Loss	0.65%	5.0% max.
Viscosity Increase @ 100°C	5.02%	10.0% max.
Viscosity Increase @ 40°C	4.0	-----
Sludge Formation	None	None
Additive Separation	None	None
Rust Protection JDQ 22	>100	100 hrs. min.
Copper Corrosion JDQ 32	1A	1B max.
Foaming Characteristics JDQ 33		
Sequence I	40/0	25/0 ml. max.
Foam Breaktime	82	30 sec. max.
Sequence II	0/0	50/0 ml. max.
Foam Breaktime	0	30 sec. max.
Sequence III	30/0	25/0 max.
Foam Breaktime	0	30 sec. max.
Water Sensitivity JDQ 19		
Solids	0.0	0.1% v max.
Additive Loss	0.0	15.0% wt. max.
Extreme Pressure Properties JDQ 34		
Timken Abrasion Mass Loss	0.5 mg.	1.5 mg. max.
Timken OK Load	73 N	45 N min.
Rubber Compatibility JDQ 9		
Volume Change	+1	0 to +5%
Hardness Change	-0.5	0 to -5 pts.
Precipitation	None	Trace
Rubber Compatibility		
Reference 69X311111		
Volume Change	+2.5	0 to +5
Hardness Change	-1.5	0 to -5
Precipitation	None	None
Oil Compatibility JDQ 23		
Additive Separation	None	None
Foaming Characteristics		
Sequence I	0/0	25/0 ml. max.
Foam Breaktime	0	30 sec. max.
Sequence II	0/0	50/0 ml. max.
Foam Breaktime	0	30 sec. max.
Sequence III	0/0	25/0 ml. max.
Foam Breaktime	0	30 sec. max.

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## **LUBRIPLATE UTF Biobased Green**

<u><b>Test</b></u>	<u><b>Typical Results</b></u>	<u><b>Specification Limits</b></u>
Oxidation Stability		
Evaporation Loss	1.6	5.0% max.
Viscosity Increase @ 100°C	6.0	10.0% max.
Viscosity Increase @ 40°C	9.8	-----
Sludge Formation	None	None
Additive Separation	None	None
Low Temperature Fluidity JDQ 73/74		
Cold Soak @ -35°C	27 secs.	30.0 sec. max.*
Slow Cool		
@ -30°C	30 mm in 3 secs.	30.0 sec. max.*
@ -35°C flow in 30 secs.	30 mm in 11 secs.	10.0 mm min.**
*Must flow 30 mm in a maximum of 30 seconds to pass.		
**Must flow at least 10 mm in 30 seconds to pass.		
JDQ 94 PST Clutch Friction		
Total Cycles	2,000	2,000
Initial Friction Coefficient	0.077	0.15 max.
Final Friction Coefficient	0.105	0.08 min.
Stall Time (sec.)	1.77	5.0 max.
Disk #1 Wear (mm)	0.178	0.38 max.
Disk #2 Wear (mm)	0.174	0.38 max.
Disk #3 Wear (mm)	0.254	0.38 max.
Disk #4 Wear (mm)	0.178	0.38 max.
JDQ 102 Shear Stability		
Viscosity @ 100°C	10.51	
Viscosity @ 100°C (sheared)	9.38	
% Viscosity Loss	10.8%	
JDQ 95 Spiral Bevel/Final Drive Gear Wear		
Gear Surface Condition		
Pinion	None	No Scoring
Ring	None	No Scoring
Spiral Bevel Rating	9	Scale of 1-10, 10 = the best
Sun Pinion Wear		
Left Side Average	<0.025	<0.025
Right Side Average	<0.025	<0.025
JDQ 84 Sundstrand Hydraulic Pump		
Flow Degradation	3.9%	Equal to or better than reference which is -2.0%
JDQ 96 Brake Torque Variation and Friction		
Cycles	Computer Results	Torque
	Relative Capacity	Variation
1,000	293,131	44,470
10,000	308,090	36,730
20,000	310,651	36,220
30,000	312,768	42,380
Total	1,224,640	159,800
		SwRI Variation
		559,780
		424,130
		421,620
		506,220
		1,911,750

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## **LUBRIPLATE UTF Biobased Green**

<b><u>Test</u></b>	<b><u>Typical Results</u></b>	<b><u>Specification Limits</u></b>
Allison C-4 Oxidation Test		
Tan Increase	10.12	7.0 max.
Carbonyl Absorbance	10.0	0.9 max.
Front Pump Seal	Moderate to Heavy Hardening Light Sludge	Moderate to Heavy Hardening Light to Medium Sludge
Allison C-4 Wear Test		
Total Weight Loss	1.4 mg	15.0 max.
Allison C-4 Paper Clutch Friction Test		
	<=5,000 >5,000	<=5,000 >5,000
	Cycles	Cycles
Slip Time, max.	0.70 0.55	0.72 0.61
Mid-Point Friction Coeff. min.	0.076 0.095	0.068 0.088
Allison C-4 Graphite Clutch Friction Test		
	1,500	5,500
	Cycles	
Slip Time, max.	0.70 0.74	0.71 max.
Mid-Point Friction Coeff. min.	0.101 0.097	0.104 min.

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