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## PRODUCT DATA

# LUBRIPLATE UTF BIOBASED GREEN

## DESCRIPTION

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.

## ADVANTAGES

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

## APPLICATIONS

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.

## Typical Test Data – See Back

## SPECIFICATIONS

Meets and exceeds universal tractor specifications for OEMS.

**John Deere** – J20C, J14A, Quantrol™, J20D

**Ford** – M2C134-D, M2C86-C, M2C86-B, M2C41-B, M2C48-B, M2C53-A, M2C134-A, M2C134-B, M2C134-C

**Massey-Ferguson** – M1135, M1141, M1110, M1127, M1129-A

**Kubota**

**Steiger**

**Versatile**

**Case International** – JIC-145/MS-1210, JIC-185/MS-1204, MS-1205, MS-1127, M1129-A

**White Farm** – Q-1826, Q-1705, Q-1766, Q-1802

**Duetz-Allis**

**Landini**

**Fiat-Hesston**

**Transmission OEM's** – ATD Allison C-4

## PACKAGING AVAILABLE

5 Gallon Pail  
55 Gallon Drum

## Part No.

L1072-060  
L1072-062

<b>PROPERTY</b>	<b>TEST METHOD</b>	<b>TYPICAL RESULTS*</b>	<b>SPECIFICATION LIMITS</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 Vis. @ 100°C (after shear)	ASTM D-6278	9.38	9.10 min.
Brookfield Viscosity @ -20°C	ASTM D-2983	1,650	4,500 max.
5,500 per J. Deere @ -35°C		11,150	70,000 max.
Flash Point, °C	ASTM D-92	251	200 min.
Stable Pour Point, °C	ASTM D-5950	-39	-37 max.
Oxidation Stability: Evaporation Loss	JDQ 16	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: Sequence I	JDQ 33	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: Solids	JDQ 19	0.0	0.1% v max.
Additive Loss		0.0	15.0% wt. max.
Extreme Pressure Properties: Timken Abrasion Mass Loss	JDQ 34	0.5 mg.	1.5 mg. max
Timken OK Load		73 N	45 N min.
Rubber Compatibility: Volume Change	JDQ 9	+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: Additive Separation	JDQ 23	None	None
Foaming Characteristics: Sequence I	ASTM D 892	0/0	25/0 ml. max
Foam Breaktime		0	30 sec. max.
Sequence II	ASTM D 892	0/0	50/0 ml. max.
Foam Breaktime		0	30 sec. max.
Sequence III	ASTM D 892	0/0	25/0 ml. max
Foam Breaktime		0	30 sec. max.

PROPERTY	TEST METHOD	TYPICAL RESULTS*	SPECIFICATION LIMITS
Oxidation Stability: Evaporation Loss	JDQ 16	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 Cold Soak @ -35°C	JDQ 73/74	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.**
<i>*Must flow 30 mm in a maximum of 30 seconds to pass.</i>			
<i>**Must flow at least 10 mm in 30 seconds to pass.</i>			
PST Clutch Friction: Total Cycles	JDQ 94	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.
Shear Stability: Viscosity @ 100°C	JDQ 102	10.51	
Viscosity @ 100°C (sheared)		9.38	
% Viscosity Loss		10.8%	
Spiral Bevel/Final Drive Gear Wear Gear Surface Condition:	JDQ 95	None	No Scoring
Pinion		None	No Scoring
Ring		None	No Scoring
Spiral Bevel Rating		9	Scale of 1-10, 10 = Best
Sun Pinion Wear: Left Side Average		<0.025	<0.025
Right Side Average		<0.025	<0.025
Sundstrand Hydraulic Pump Flow Degradation	JDQ 84	3.9%	Equal to or better than reference which is -2.0%

JDQ 96 Brake Torque Variation and Friction			
Cycles	Computer Results Relative Capacity	Torque Variation	SwRI Variation
1,000	293,131	44,470	559,780
10,000	308,090	36,730	424,130
20,000	310,651	36,220	421,620
30,000	312,768	42,380	506,220
Total	1,224,640	159,800	1,911,750