

Store 3 - Norton JOHN DEERE 331G 1T0331GMEHF316759 Left Final Drive

JOHN DEERE HY-GARD HYD/TRANS (1 QTS)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

WEAR

Gear wear is indicated. The very high ferrous density (PQ) index indicates that severe wear is occurring.

CONTAMINATION

Elemental levels of silicon (Si) and aluminum (Al) indicate aluminasilicate (coarse dirt) ingress.

FLUID CONDITION

The oil viscosity is higher than normal. Additive levels indicate the addition of a different brand, or type of oil. The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0041577	LEC0039455	LEC0021501
Sample Date		Client Info		19 Jun 2024	24 Mar 2023	11 Aug 2021
Machine Age	hrs	Client Info		2641	2257	1766
Oil Age	hrs	Client Info		384	491	1766
Filter Age	hrs	Client Info		0	0	258
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		N/A	N/A	Not Changd
Sample Status				SEVERE	SEVERE	NORMAL
PO			> 1250	A 1206	777	20
Iron	nnm	AGTM D5195m	>750	A 10010	5011	54
Chromium	ppm	AGTM D5105III	>150	 12212 121 	▲ <u>71</u>	1
Niekol	ppm	ASTM D5105m	>9	A 95	▲ 10	1
Titonium	ppiii	ACTM DE105m	>10	20	40	2
Silver	ppm	ASTM DE105		30	20	<1
Aluminum	ppm		. 40	<1	100	<1
Aluminum	ppm	ASTM D5185m	>40	2/3	120	2
Lead	ppm	ASTM D5185m	>15	2	1	0
Copper	ppm	ASTM D5185m	>40	1/	10	<1
lin	ppm	ASTM D5185m	>10	0	<1	0
Vanadium	ppm	ASTM D5185m		6	5	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>75	A 2829	a 2337	32
Potassium	ppm	ACTM DE185m	>20	74	41	0
		ASTIVI DJ TOJITI	~20			
Water		WC Method	>0.075	NEG	NEG	NEG
Water Silt	scalar	WC Method *Visual	>0.075 NONE	NEG	NEG	NEG NONE
Water Silt Debris	scalar scalar	WC Method *Visual *Visual	>0.075 NONE NONE	NEG NONE NONE	NEG NONE NONE	NEG NONE VLITE
Water Silt Debris Sand/Dirt	scalar scalar scalar	WC Method *Visual *Visual *Visual	>0.075 NONE NONE NONE	NEG NONE NONE NONE	NEG NONE NONE NONE	NEG NONE VLITE NONE
Water Silt Debris Sand/Dirt Appearance	scalar scalar scalar scalar	WC Method *Visual *Visual *Visual *Visual	>0.075 NONE NONE NONE NORML	NEG NONE NONE NONE NORML	NONE NONE NONE NORE	NEG NONE VLITE NONE NORML
Water Silt Debris Sand/Dirt Appearance Odor	scalar scalar scalar scalar scalar scalar	WC Method *Visual *Visual *Visual *Visual *Visual	>0.075 NONE NONE NORE NORML	NEG NONE NONE NONE NORML NORML	NEG NONE NONE NORE NORML	NEG NONE VLITE NONE NORML
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water	scalar scalar scalar scalar scalar scalar	WC Method *Visual *Visual *Visual *Visual *Visual *Visual	>0.075 NONE NONE NORML NORML >0.075	NEG NONE NONE NORE NORML NEG	NEG NONE NONE NORML NORML NEG	NEG NONE VLITE NONE NORML NEG
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium	scalar scalar scalar scalar scalar scalar scalar	WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m	>0.075 NONE NONE NORML NORML >0.075	NEG NONE NONE NORML NORML NEG	NEG NONE NONE NORML NORML NEG	NEG NONE VLITE NONE NORML NEG
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron	scalar scalar scalar scalar scalar scalar ppm	WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m	>0.075 NONE NONE NORML NORML >0.075 >51 6	NEG NONE NONE NORML NORML NEG 24 18	NEG NONE NONE NORML NORML NEG 12 19	NEG NONE VLITE NORML NORML NEG <1 15
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	scalar scalar scalar scalar scalar scalar ppm ppm	WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m	>0.075 NONE NONE NORML NORML >0.075 >51 6 0	NEG NONE NONE NORML NORML NEG 24 18 0	NEG NONE NONE NORML NORML NEG 12 19 0	NEG NONE VLITE NORML NORML NEG <1 15 1
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum	scalar scalar scalar scalar scalar scalar ppm ppm ppm	WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m	>20075 >0.075 NONE NONE NORML >0.075 >51 6 0 0	NEG NONE NONE NORML NORML NEG 24 18 0 26	NEG NONE NONE NORML NORML NEG 12 19 0 18	NEG NONE VLITE NORML NORML NEG <1 15 1 3
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese	scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm	Visual *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>0.075 NONE NONE NORML NORML >0.075 >51 6 0 0	NEG NONE NONE NORML NORML NEG 24 18 0 26 91	NEG NONE NONE NORML NORML NEG 12 19 0 18 58	NEG NONE VLITE NORML NORML NEG <1 15 1 15 1 3 3 <1
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium	scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm	WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>0.075 NONE NONE NORML NORML >0.075 >51 6 0 0	NEG NONE NONE NORML NORML NEG 24 18 0 26 91 58	NEG NONE NONE NORML NORML NEG 12 19 0 18 58 123	NEG NONE VLITE NORML NORML NEG <1 15 1 3 <1 3 <1 57
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm	Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>0.075 NONE NONE NONE NORML >0.075 >51 6 0 0 145 3570	NEG NONE NONE NORML NORML NEG 24 18 0 26 91 58 543	NEG NONE NONE NORML NORML NEG 12 19 0 18 58 123 2632	NEG NONE VLITE NORML NORML NEG <1 15 1 3 <1 3 <1 57 1221
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20075 >0.075 NONE NONE NORML >0.075 >51 6 0 0 0 145 3570 1290	NEG NONE NONE NORML NORML NEG 24 18 0 26 91 58 543 391	NEG NONE NONE NORML NORML NEG 12 19 0 18 58 123 2632 824	NEG NONE VLITE NORML NORML NEG <1 15 1 3 <1 57 1221 330
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm ppm	WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>0.075 NONE NONE NORML NORML >0.075 >51 6 0 0 0 145 3570 1290 1640	NEG NONE NONE NORML NORML NEG 24 18 0 26 91 58 543 543 391 194	NEG NONE NONE NORML NORML NEG 12 19 0 18 58 123 2632 824 876	NEG NONE VLITE NORML NORML NEG <1 15 1 3 <1 57 1221 330 410
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm ppm ppm	WC Method *Visual *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>0.075 NONE NONE NORML NORML >0.075 >51 6 0 0 145 3570 1290 1640	NEG NONE NONE NORE NORML NEG 24 18 0 26 91 58 543 391 194 15979	NEG NONE NONE NORML NORML NEG 12 19 0 18 58 123 2632 824 876 6384	NEG NONE VLITE NORML NORML NEG <1 15 1 3 <1 57 1221 330 410 6474

Submitted By: STORE5 - CROSS LANES - NEIL BALL



: WearCheck USA - 501 Madison Ave., Cary, NC 27513 LESLIE EQUIPMENT COMPANY Laboratory Sample No. Received : 24 Jun 2024 105 TENNIS CENTER DR. : LEC0041577 Lab Number : 06218511 : 25 Jun 2024 MARIETTA, OH Tested : 26 Jun 2024 - Sean Felton US 45750-9765 Unique Number : 11096708 Diagnosed Test Package : CONST (Additional Tests: PQ) Contact: LEANNE KENDALL Certificate L2367 KendalLeanne@lec1.com To discuss this sample report, contact Customer Service at 1-800-237-1369. * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (740)373-5570

Submitted By: STORE5 - CROSS LANES - NEIL BALL Page 2 of 2