

WEAR
CONTAMINATION
FLUID CONDITION

SEVERE SEVERE ATTENTION

Store 3 - Norton

## **JOHN DEERE 331G 1T0331GMEHF316759**

Right Final Drive

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check all areas where dirt can enter the system. Oil and filter 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.	Sample Number		Client Info		LEC0041578	LEC0039454	LEC002150
	Sample Date		Client Info		19 Jun 2024	24 Mar 2023	11 Aug 202
	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		Changed	N/A	Not Chang
	Sample Status				SEVERE	ABNORMAL	NORMAL
WEAR	PQ		ASTM D8184	>1250	287	151	29
The iron level is severe. Gear wear is indicated.	Iron	ppm	ASTM D5185m	>750	<b>1192</b>	847	99
	Chromium	ppm	ASTM D5185m	>9	<b>1</b> 4	11	2
	Nickel	ppm	ASTM D5185m	>10	<u> </u>	9	2
	Titanium	ppm	ASTM D5185m		5	2	<1
	Silver	ppm	ASTM D5185m		<1	0	0
	Aluminum	ppm	ASTM D5185m	>40	<b>6</b> 4	25	4
	Lead	ppm	ASTM D5185m	>15	<1	0	0
	Copper	ppm	ASTM D5185m	>40	13	3	<1
	Tin	ppm	ASTM D5185m	>10	0	<1	0
	Vanadium	ppm	ASTM D5185m		2	<1	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION  Elemental levels of silicon (Si) and aluminum (Al) indicate aluminasilicate (coarse dirt) ingress.	Silicon	ppm	ASTM D5185m	>75	<b>271</b>	<u> </u>	48
	Potassium	ppm	ASTM D5185m	>20	22	6	12
	Water		WC Method	>0.075	NEG	NEG	NEG
	Silt	scalar	*Visual	NONE	MODER	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.075	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		3	2	<1
The oil viscosity is higher than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type. The oil is no longer serviceable due to the presence of contaminants.	Boron	ppm	ASTM D5185m		5	17	20
	Barium	ppm	ASTM D5185m		1	0	0
	Molybdenum	ppm	ASTM D5185m	0	5	9	3
	Manganese	ppm	ASTM D5185m		10	7	<1
	Magnesium	ppm	ASTM D5185m		45	112	70
	Calcium	ppm	ASTM D5185m		932	2722	1715
	Phosphorus	ppm	ASTM D5185m		<b>491</b>	878	577
	<b>¬</b> ·						
	Zinc Sulfur	ppm	ASTM D5185m ASTM D5185m	1640	368 13217	931 6701	567 10067

Visc @ 40°C

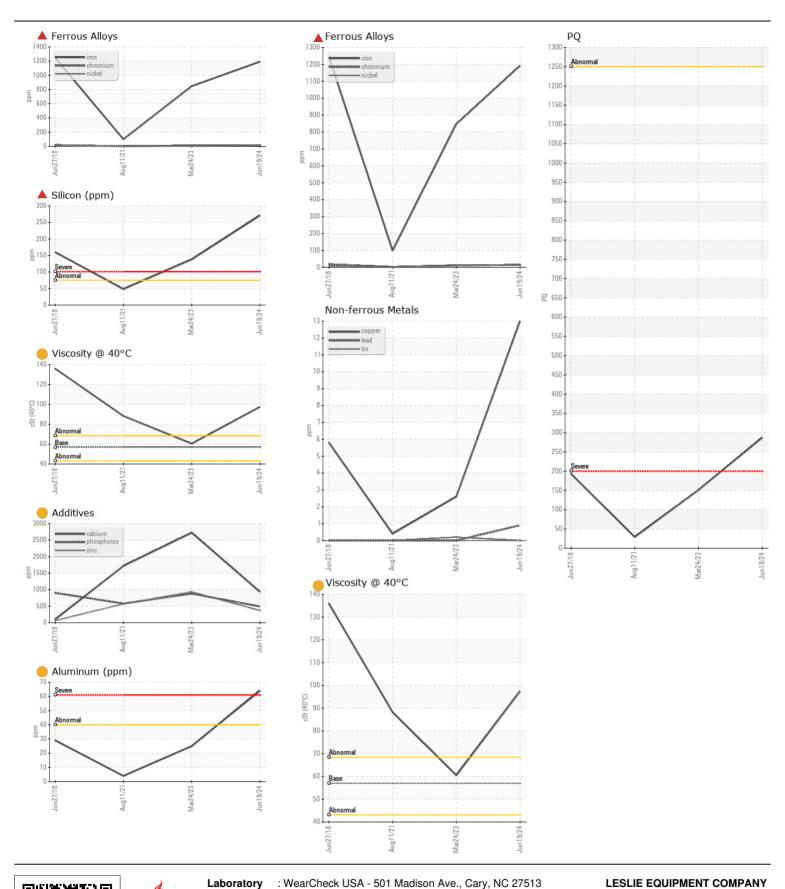
cSt

ASTM D445 57.0

88.2

60.5

97.3





Certificate L2367

Laboratory Sample No.

Lab Number : 06218536 Unique Number: 11096733

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : LEC0041578

Received **Tested** Diagnosed Test Package : CONST ( Additional Tests: PQ )

: 24 Jun 2024 : 25 Jun 2024

: 26 Jun 2024 - Sean Felton

Contact: LEANNE KENDALL KendalLeanne@lec1.com

105 TENNIS CENTER DR.

MARIETTA, OH

US 45750-9765

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. 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

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