**WEAR CONTAMINATION FLUID CONDITION** 

**SEVERE SEVERE NORMAL** 

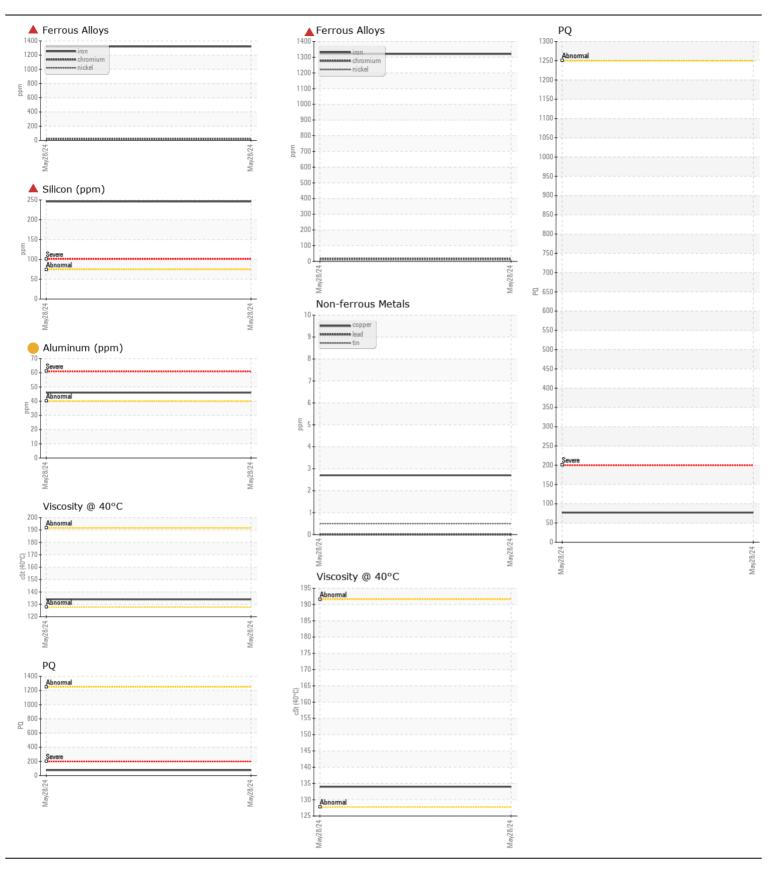
## [W52052 HENDERSON]

## **JOHN DEERE 331G 1T0331GMVLF371179**

**Right Final Drive** 

JOHN DEERE GL-5 80W90 (--- GAL)

JOHN DEERE GL-5 80W90 ( GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
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.	Sample Number		Client Info		JR0211646		
	Sample Date		Client Info		28 May 2024		
	Machine Age	hrs	Client Info		1431		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		N/A		
	Sample Status				SEVERE		
WEAR	PQ		ASTM D8184	>1250	77		
WEAT	Iron	nnm	ASTM D5185m		↑ ↑ ▲ 1321		
Gear wear is indicated.	Chromium	ppm	ASTM D5185m		▲ 1321 ▲ 17		
	Nickel	ppm	ASTM D5185m		▲ 11		
	Titanium	ppm	ASTM D5185m	>10	4		
	Silver	ppm	ASTM D5185m		0		
	Aluminum		ASTM D5185m	>40	<b>46</b>		
	Lead	ppm	ASTM D5185m		0		
	Copper	ppm	ASTM D5185m		3		
	Tin	ppm	ASTM D5185m		<1		
	Vanadium	ppm	ASTM D5185m	>10	1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION  Elemental levels of silicon (Si) and aluminum (Al) indicate aluminasilicate (coarse dirt) ingress.	Silicon	ppm	ASTM D5185m	>75	<b>4</b> 246		
	Potassium	ppm	ASTM D5185m	>20	19		
	Water		WC Method	>0.075	NEG		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.075	NEG		
FLUID CONDITION	Sodium	nnm	ASTM D5185m	<u>-51</u>	5		
	Boron	ppm	ASTM D5185m	>01	5 54		
The oil is no longer serviceable due to the presence of contaminants.	Barium	ppm	ASTM D5185m		16		
	Molybdenum		ASTM D5185m		7		
	Manganese	ppm	ASTM D5185m		12		
	Magnesium	ppm	ASTM D5185m		13		
	Calcium	ppm	ASTM D5185m		27		
	Phosphorus	ppm	ASTM D5185m		667		
	Zinc	ppm	ASTM D5185m		49		
	Sulfur	ppm	ASTM D5185m		21825		
	Visc @ 40°C	cSt	ASTM D3103III		134		
	*100 @ TU U	001	, IO I IVI DTTO		\ .57		





Laboratory Sample No. Lab Number Unique Number : 11059089

: 06196966

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0211646

Received : 31 May 2024 **Tested** Diagnosed

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

: 03 Jun 2024 : 04 Jun 2024 - Sean Felton

JRE - ASHLAND 11047 LEADBETTER RD ASHLAND, VA US 23005

Test Package : CONST ( Additional Tests: PQ ) Contact: DAVID ZIEG To discuss this sample report, contact Customer Service at 1-800-237-1369. dzieg@jamesriverequipment.com \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (804)798-6001

F: (804)798-0292