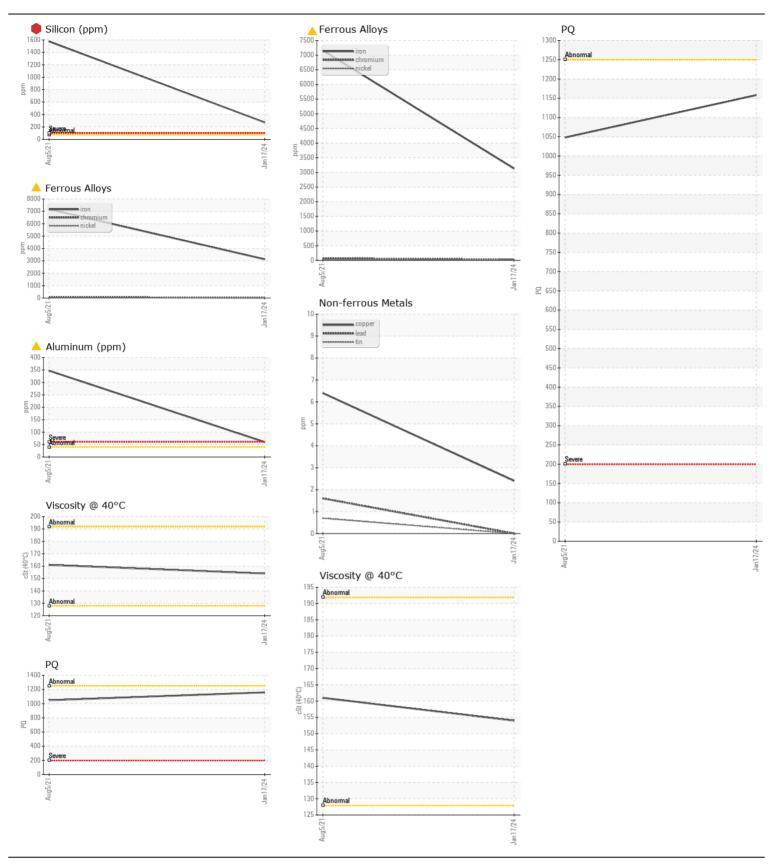
**WEAR CONTAMINATION FLUID CONDITION** 

**ABNORMAL SEVERE NORMAL** 

## JOHN DEERE 331G 1T0331GKJKF358149

Component Left Final Drive

JOHN DEERE GL-5 80W90 ( QTS)							
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 recommend an early resample to monitor this condition.	Sample Number		Client Info		JR0199206	JR0095292	
	Sample Date		Client Info		17 Jan 2024	05 Aug 2021	
	Machine Age	hrs	Client Info		2035	846	
	Oil Age	hrs	Client Info		2035	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Changed	Not Changd	
	Filter Changed		Client Info		N/A	N/A	
	Sample Status				SEVERE	SEVERE	
WEAR	PQ		ASTM D8184	>1250	1158	1048	
Gear wear is indicated.	Iron	ppm	ASTM D5185m	>750	<u> </u>	<b>1</b> 7161	
	Chromium	ppm	ASTM D5185m	>9	<b>2</b> 3	<b>6</b> 8	
	Nickel	ppm	ASTM D5185m	>10	<u> </u>	<b>△</b> 34	
	Titanium	ppm	ASTM D5185m		7	<u>48</u>	
	Silver	ppm	ASTM D5185m		0	0	
	Aluminum	ppm	ASTM D5185m		<b>6</b> 0	<b>▲</b> 347	
	Lead	ppm	ASTM D5185m		0	2	
	Copper	ppm	ASTM D5185m		2	6	
	Tin	ppm	ASTM D5185m	>10	0	<1	
	Vanadium	ppm	ASTM D5185m		<1	3	
	White Metal	scalar	*Visual	NONE	NONE	VLITE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>75	<b>273</b>	1575	
Elemental levels of silicon (Si) and aluminum (Al) indicate aluminasilicate (coarse dirt) ingress.	Potassium	ppm	ASTM D5185m	>20	15	73	
	Water		WC Method	>0.075	NEG	NEG	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.075	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>51	4	58	
The oil is no longer serviceable due to the presence of contaminants.	Boron	ppm	ASTM D5185m		16	165	
	Barium	ppm	ASTM D5185m		9	67	
	Molybdenum	ppm	ASTM D5185m		4	12	
	Manganese	ppm	ASTM D5185m		25	72	
	Magnesium	ppm	ASTM D5185m		9	56	
	Calcium	ppm	ASTM D5185m		13	72	
	Phosphorus	ppm	ASTM D5185m		204	697	
	Zinc	ppm	ASTM D5185m		<1	53	
	Sulfur	ppm	ASTM D5185m		17135	25056	
Report Id: IAMMAN IMI ISCARI 06065164 (Generated: 01/22/2024 13:97:14) Rev: 1	Visc @ 40°C	cSt	ASTM D445	0.1	154	161 ECHNICIAN	





Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** 

: JR0199206 : 06065164

: 10836546

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 18 Jan 2024 : 22 Jan 2024 Diagnosed

Diagnostician : Sean Felton Test Package : CONST ( Additional Tests: PQ )

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) JRE - MANASSAS PARK 9107 OWENS DRIVE MANASSAS PARK, VA US 20111

Contact: DON VEST dvest@jamesriverequipment.com

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