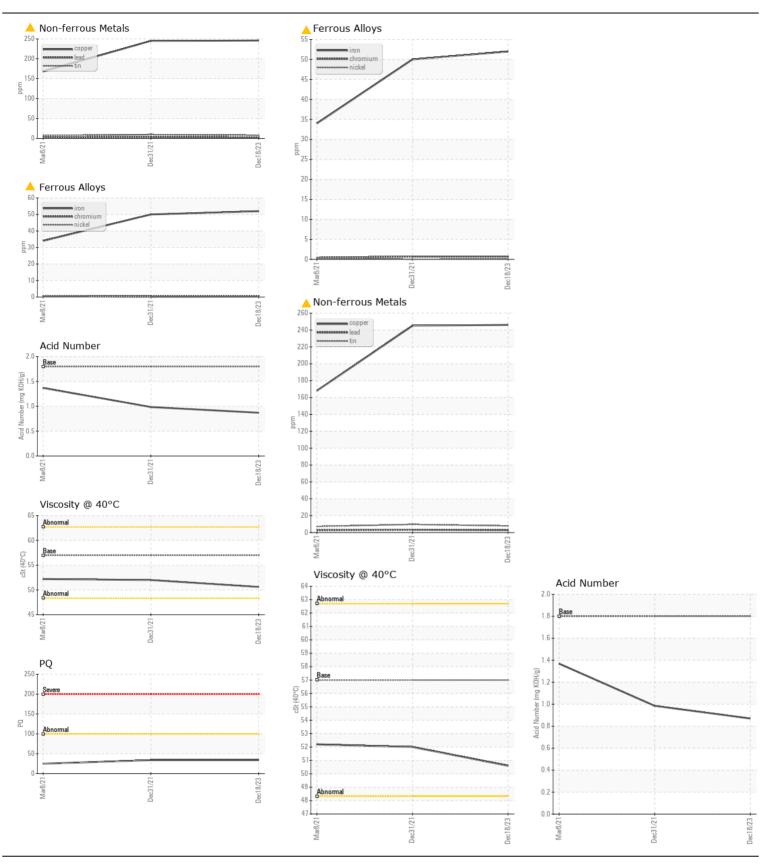
**WEAR** CONTAMINATION **FLUID CONDITION**  **ABNORMAL ABNORMAL NORMAL** 

Machine Id

## JOHN DEERE 5100E 1LV5100EVKK407240

Component
Hydraulic System

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We recommend you service the filters on this component. We recommend an early resample to monitor this condition. We were unable to perform a particle count due to a high concentration of particles present in this sample.	Sample Number		Client Info		JR0189704	-	JR0048238
	Sample Date		Client Info		18 Dec 2023	31 Dec 2021	08 Mar 202
	Machine Age	hrs	Client Info		302	139	91
	Oil Age	hrs	Client Info		0	139	0
	Filter Age	hrs	Client Info		0	139	0
	Oil Changed		Client Info		N/A	Not Changd	Not Chang
	Filter Changed		Client Info		N/A	Changed	Not Chang
	Sample Status				ABNORMAL	ABNORMAL	ABNORMA
WEAR	PQ		ASTM D8184		34	34	25
	Iron	ppm	ASTM D5185m	>20	<u> </u>	<u></u> 50	34
The iron level is abnormal. The copper level is abnormal.	Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
	Nickel	ppm	ASTM D5185m	>10	<1	0	<1
	Titanium	ppm	ASTM D5185m		<1	<1	<1
	Silver	ppm	ASTM D5185m		<1	<1	<1
	Aluminum	ppm	ASTM D5185m		2	3	0
	Lead	ppm	ASTM D5185m	>10	3	3	3
	Copper	ppm	ASTM D5185m		<u> </u>	<u> </u>	<u> </u>
	Tin	ppm	ASTM D5185m	>10	8	10	7
	Vanadium	ppm	ASTM D5185m		0	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	6	6	0
	Potassium	ppm	ASTM D5185m	>20	4	4	3
Moderate concentration of visible dirt/debris present in the oil.	Water		WC Method	>0.1	NEG	NEG	NEG
	Particles >4μm		ASTM D7647	>5000		<b>△</b> 174299	
	Particles >6µm		ASTM D7647	>1300		<u></u> 31930	
	Particles >14μm		ASTM D7647	>160		160	
	Particles >21µm		ASTM D7647	>40		19	
	Particles >38μm		ASTM D7647	>10		0	
	Particles >71µm		ASTM D7647			0	
	Oil Cleanliness		ISO 4406 (c)			<u>\$\text{\Delta}\$ 25/22/14</u>	
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	▲ MODER	NONE	▲ MODE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORN
	Odor	scalar	*Visual	NORML	NORML	NORML	NORN
	Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		4	7	7
	Boron	ppm	ASTM D5185m	6	9	12	11
The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.	Barium	ppm	ASTM D5185m	0	1	2	2
	Molybdenum	ppm	ASTM D5185m	0	2	<1	<1
	Manganese	ppm	ASTM D5185m		3	4	3
	Magnesium	ppm	ASTM D5185m		85	89	85
	Calcium	ppm	ASTM D5185m	3570	2894	3141	3198
	Phosphorus	ppm	ASTM D5185m		923	956	947
	Zinc	ppm	ASTM D5185m	1640	1055	1157	1078
	Sulfur	ppm	ASTM D5185m		3876	3403	3005
	Acid Number (AN)	mg KOH/g	ASTM D8045	1.8	0.87	0.985	1.369
	Visc @ 40°C	cSt	ASTM D445	57.0	50.6	52.0	52.2





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

: JR0189704 : 06057997 : 10829379

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

Recieved : 11 Jan 2024 Diagnosed : 12 Jan 2024

Diagnostician : Don Baldridge

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 - LA CROSSE 38431 HWY 58 LA CROSSE, VA

US 23950-1807 Contact: HUNTER GREEN

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