



# OIL ANALYSIS REPORT

WEAR  
CONTAMINATION  
FLUID CONDITION

**ATTENTION**  
**SEVERE**  
**NORMAL**

Area  
**Store 9 - Marietta**  
Machine Id  
**JOHN DEERE 250G EX39 (S/N 1FF250GXPNF611949)**  
Component  
**Right Propel Gearbox**  
Fluid  
**JOHN DEERE GL-5 80W90 (2 GAL)**

## RECOMMENDATION

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 recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LEC0047655</b>	LEC0043825	LEC0040459
Sample Date		Client Info		<b>15 Dec 2023</b>	16 Aug 2023	06 Apr 2023
Machine Age	hrs	Client Info		<b>2457</b>	1906	1308
Oil Age	hrs	Client Info		<b>1000</b>	500	1000
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Not Chngd	Changed
Filter Changed		Client Info		<b>Changed</b>	None	Changed
Sample Status				<b>SEVERE</b>	ABNORMAL	SEVERE

## WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		<b>946</b>	616	291
Iron	ppm	ASTM D5185m	>1250	<b>1551</b>	829	650
Chromium	ppm	ASTM D5185m	>10	<b>15</b>	8	10
Nickel	ppm	ASTM D5185m	>10	<b>1</b>	1	<1
Titanium	ppm	ASTM D5185m		<b>8</b>	5	7
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m		<b>▲ 108</b>	▲ 79	▲ 120
Lead	ppm	ASTM D5185m		<b>0</b>	0	0
Copper	ppm	ASTM D5185m		<b>2</b>	1	1
Tin	ppm	ASTM D5185m		<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

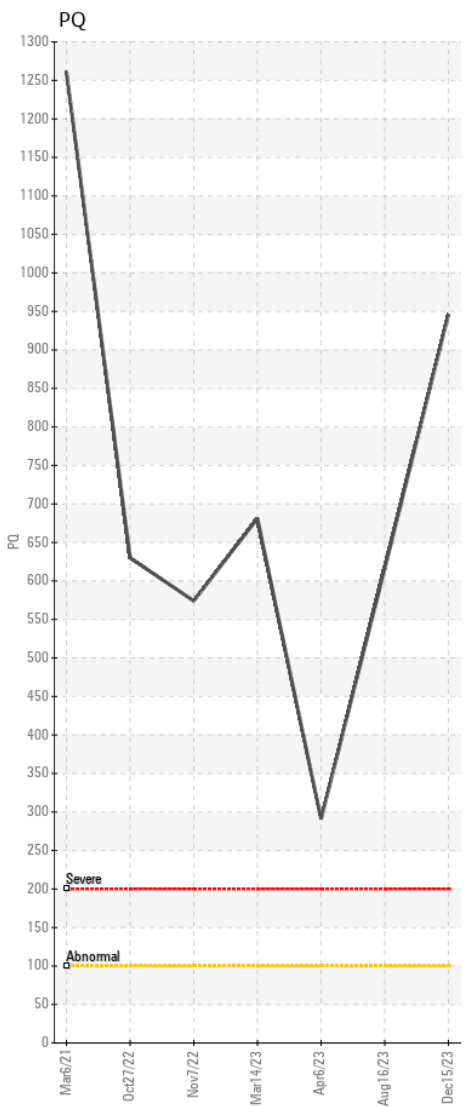
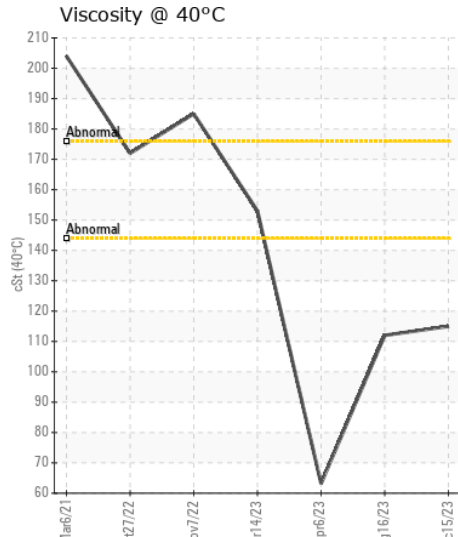
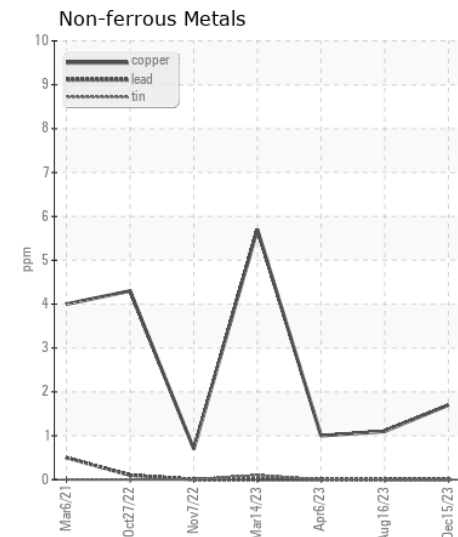
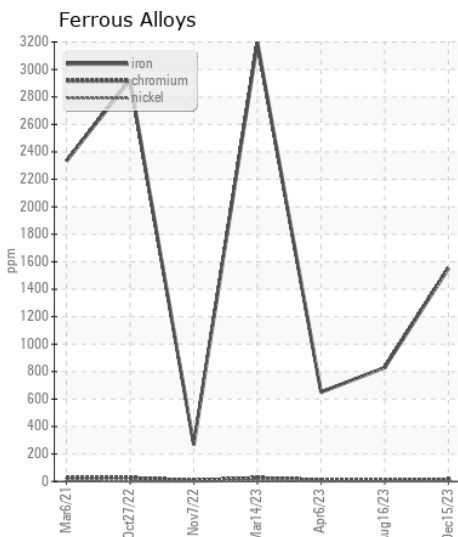
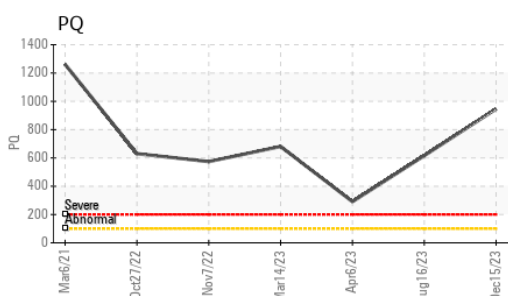
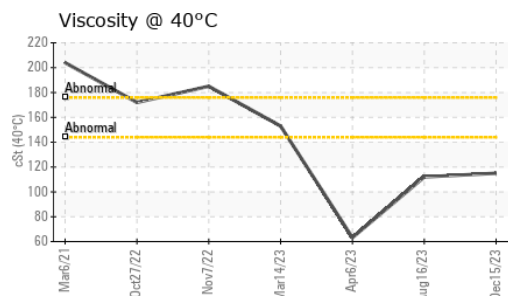
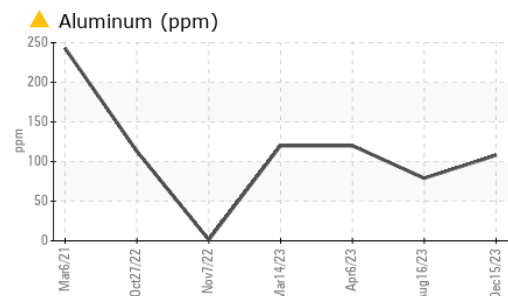
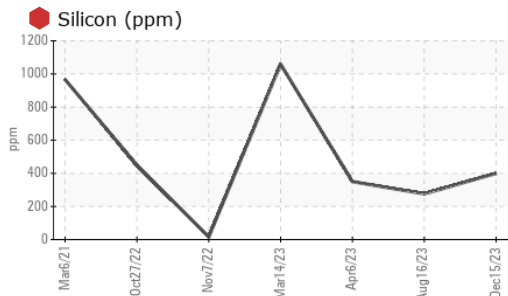
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m		<b>◆ 400</b>	▲ 276	◆ 350
Potassium	ppm	ASTM D5185m	>20	<b>29</b>	21	29
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185m		<b>0</b>	4	4
Boron	ppm	ASTM D5185m		<b>145</b>	126	30
Barium	ppm	ASTM D5185m		<b>2</b>	0	2
Molybdenum	ppm	ASTM D5185m		<b>2</b>	1	4
Manganese	ppm	ASTM D5185m		<b>14</b>	9	10
Magnesium	ppm	ASTM D5185m		<b>36</b>	27	▲ 102
Calcium	ppm	ASTM D5185m		<b>757</b>	691	▲ 2902
Phosphorus	ppm	ASTM D5185m		<b>1034</b>	883	▲ 906
Zinc	ppm	ASTM D5185m		<b>309</b>	290	▲ 1029
Sulfur	ppm	ASTM D5185m		<b>16326</b>	16718	▲ 6145
Visc @ 40°C	cSt	ASTM D445		<b>115</b>	112	▲ 63.2



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LEC0047655 **Received** : 30 Jan 2024  
**Lab Number** : 06075040 **Diagnosed** : 01 Feb 2024  
**Unique Number** : 10857131 **Diagnostician** : Sean Felton  
**Test Package** : CONST ( Additional Tests: PQ )

**LANE PIPELINE**  
 2946 E MAIN ST  
 BRIDGEPORT, WV  
 US 26330  
 Contact: SCOTT

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)

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