



# OIL ANALYSIS REPORT

WEAR	<b>ATTENTION</b>
CONTAMINATION	<b>ABNORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Area  
**Store 9 - Marietta**  
 Machine Id  
**JOHN DEERE 250G EX33 (S/N 1FF250GXHLF611604)**  
 Component  
**Left Propel Gearbox**  
 Fluid  
**GEAR OIL SAE 90 (2 GAL)**

## RECOMMENDATION

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LEC0047719</b>	LEC0038356	LEC0036095
Sample Date		Client Info		<b>05 Jan 2024</b>	19 Apr 2023	12 Oct 2022
Machine Age	hrs	Client Info		<b>1640</b>	1082	545
Oil Age	hrs	Client Info		<b>500</b>	1082	545
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	None
Sample Status				<b>ABNORMAL</b>	ABNORMAL	NORMAL

## WEAR

All component wear rates are normal.

PQ		ASTM D8184		<b>566</b>	239	106
Iron	ppm	ASTM D5185m	>1250	<b>982</b>	1040	602
Chromium	ppm	ASTM D5185m	>10	<b>9</b>	11	9
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	2	0
Titanium	ppm	ASTM D5185m		<b>4</b>	8	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m		<b>▲ 44</b>	▲ 156	7
Lead	ppm	ASTM D5185m		<b>0</b>	<1	0
Copper	ppm	ASTM D5185m		<b>2</b>	2	2
Tin	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

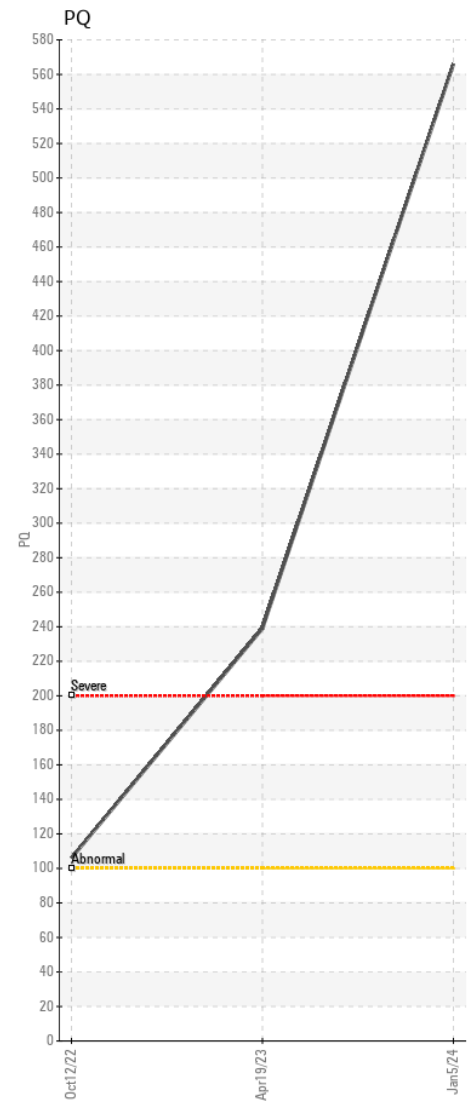
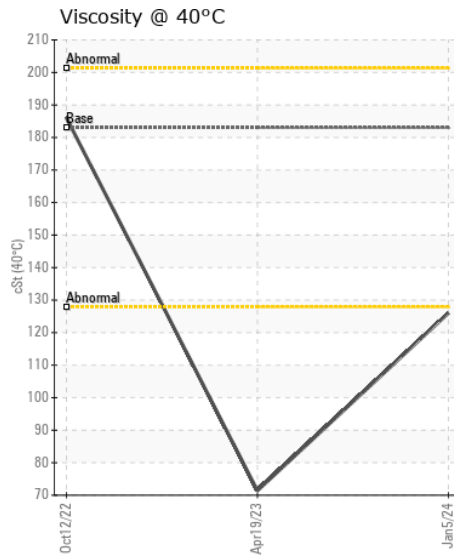
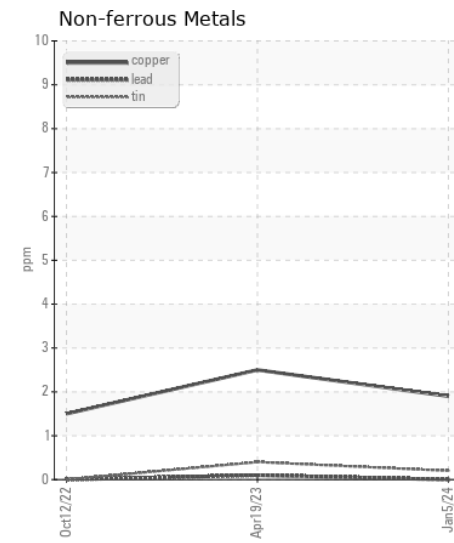
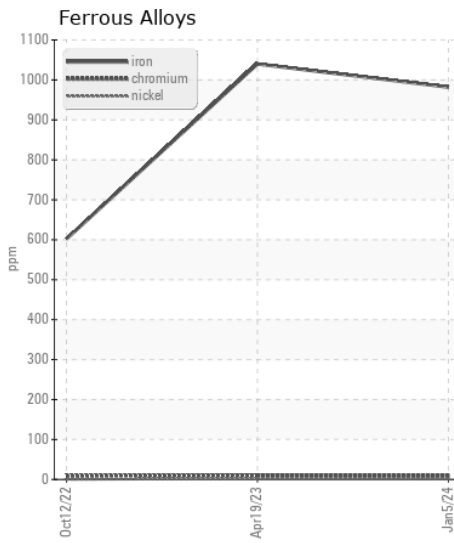
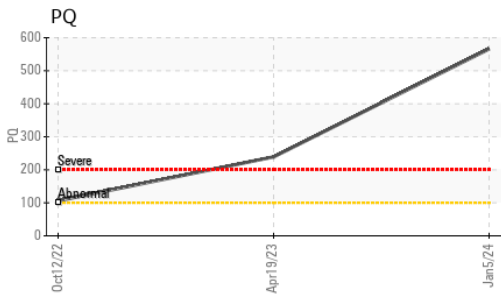
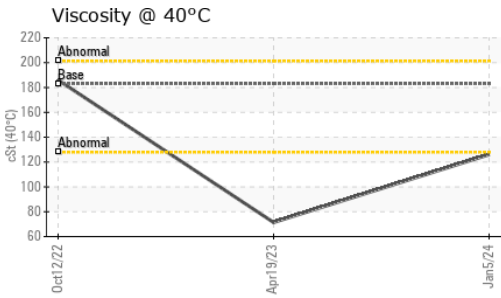
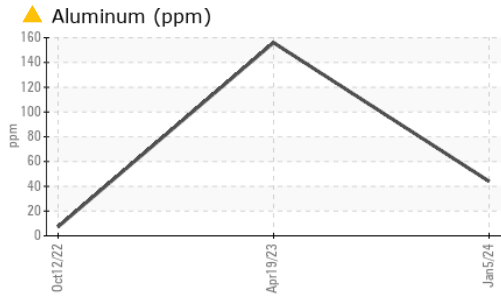
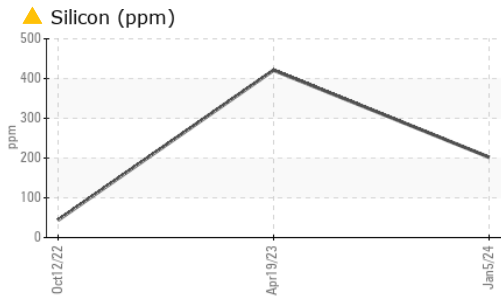
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m		<b>▲ 202</b>	▲ 421	44
Potassium	ppm	ASTM D5185m	>20	<b>11</b>	34	2
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	LIGHT
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 condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		<b>3</b>	5	<1
Boron	ppm	ASTM D5185m	400	<b>134</b>	44	44
Barium	ppm	ASTM D5185m	200	<b>0</b>	0	8
Molybdenum	ppm	ASTM D5185m	12	<b>&lt;1</b>	5	<1
Manganese	ppm	ASTM D5185m		<b>8</b>	13	14
Magnesium	ppm	ASTM D5185m	12	<b>22</b>	92	2
Calcium	ppm	ASTM D5185m	150	<b>488</b>	2583	10
Phosphorus	ppm	ASTM D5185m	1650	<b>995</b>	856	492
Zinc	ppm	ASTM D5185m	125	<b>184</b>	942	27
Sulfur	ppm	ASTM D5185m	22500	<b>16690</b>	7156	17180
Visc @ 40°C	cSt	ASTM D445	183	<b>126</b>	▲ 71.4	186



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LEC0047719 **Received** : 17 Jan 2024  
**Lab Number** : 06063870 **Diagnosed** : 20 Jan 2024  
**Unique Number** : 10835252 **Diagnostician** : Don Baldrige  
**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)

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