



# OIL ANALYSIS REPORT

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

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

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LEC0047717</b>	LEC0038358	LEC0036097
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	Not Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	None
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

PQ		ASTM D8184		<b>134</b>	110	62
Iron	ppm	ASTM D5185m	>151	<b>170</b>	171	117
Chromium	ppm	ASTM D5185m	>11	<b>&lt;1</b>	1	1
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>21	<b>0</b>	<1	<1
Lead	ppm	ASTM D5185m	>51	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>51	<b>1</b>	0	<1
Tin	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	VLITE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

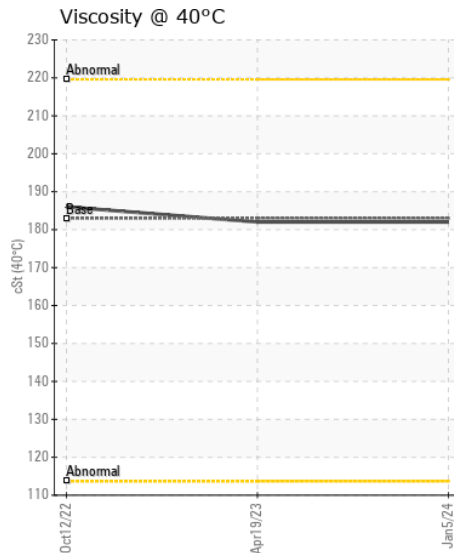
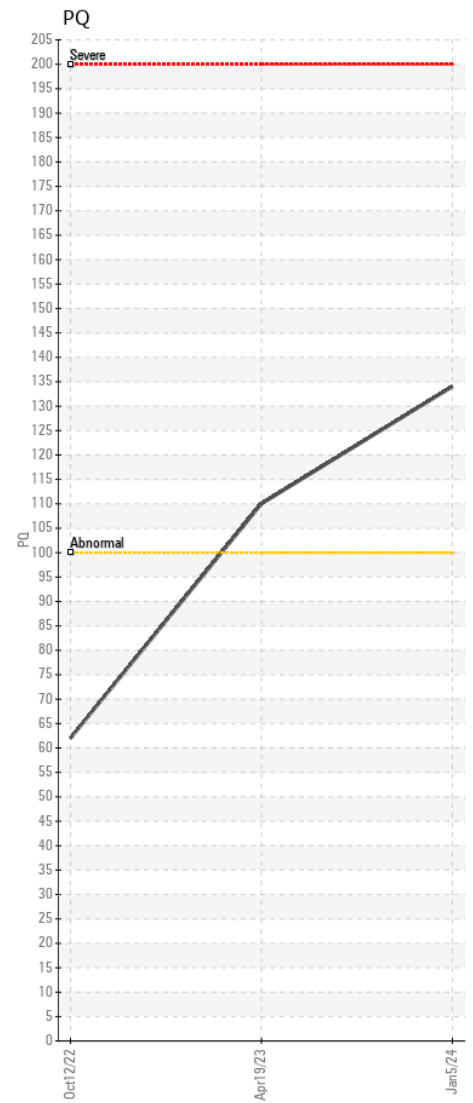
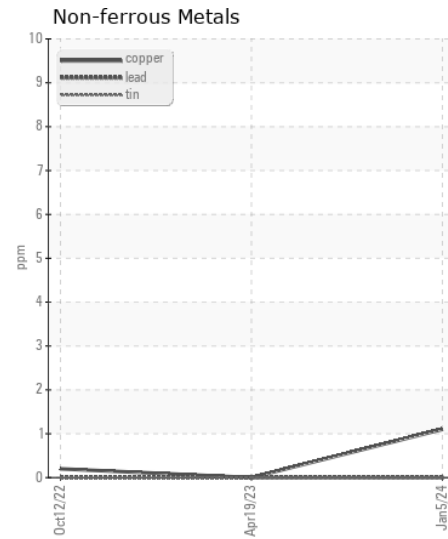
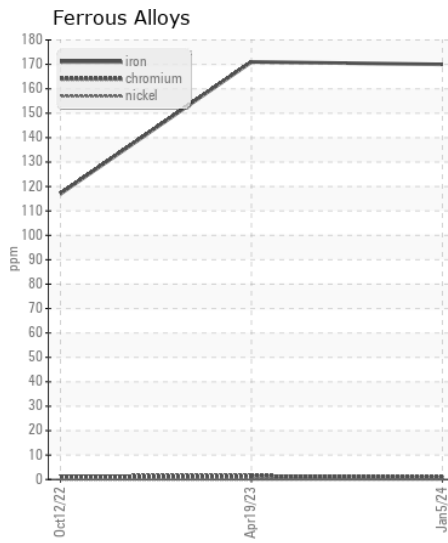
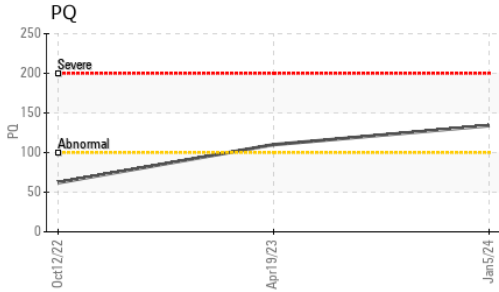
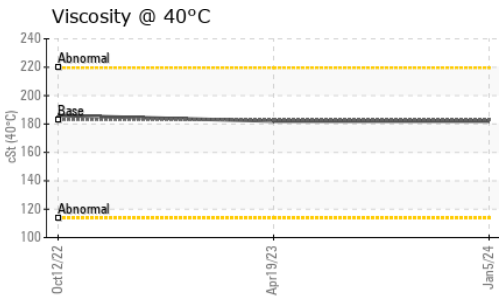
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>31	<b>20</b>	19	16
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	3	2
Water		WC Method	>0.1	<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	>0.1	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m	>51	<b>2</b>	<1	1
Boron	ppm	ASTM D5185m	400	<b>58</b>	62	60
Barium	ppm	ASTM D5185m	200	<b>2</b>	0	5
Molybdenum	ppm	ASTM D5185m	12	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m		<b>2</b>	2	2
Magnesium	ppm	ASTM D5185m	12	<b>1</b>	4	1
Calcium	ppm	ASTM D5185m	150	<b>86</b>	20	29
Phosphorus	ppm	ASTM D5185m	1650	<b>549</b>	516	493
Zinc	ppm	ASTM D5185m	125	<b>21</b>	9	14
Sulfur	ppm	ASTM D5185m	22500	<b>15658</b>	18273	16216
Visc @ 40°C	cSt	ASTM D445	183	<b>182</b>	182	186



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LEC0047717 **Received** : 17 Jan 2024  
**Lab Number** : 06063876 **Diagnosed** : 20 Jan 2024  
**Unique Number** : 10835258 **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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