



# OIL ANALYSIS REPORT

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

Area  
**Store 9 - Marietta**  
Machine Id  
**JOHN DEERE 250GL 2259 (S/N 1FF250GXENF611977)**  
Component  
**Left Final Drive**  
Fluid  
**JOHN DEERE HY-GARD HYD/TRANS (2 GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LEC0041034</b>	LEC0037162	---
Sample Date		Client Info		<b>03 Jun 2024</b>	22 Dec 2022	---
Machine Age	hrs	Client Info		<b>1092</b>	559	---
Oil Age	hrs	Client Info		<b>500</b>	559	---
Filter Age	hrs	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>Changed</b>	Changed	---
Filter Changed		Client Info		<b>N/A</b>	N/A	---
Sample Status				<b>NORMAL</b>	NORMAL	---

## WEAR

All component wear rates are normal.

PQ		ASTM D8184	>1250	<b>181</b>	853	---
Iron	ppm	ASTM D5185m	>750	<b>206</b>	345	---
Chromium	ppm	ASTM D5185m	>9	<b>5</b>	10	---
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	---
Titanium	ppm	ASTM D5185m		<b>1</b>	<1	---
Silver	ppm	ASTM D5185m		<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>40	<b>11</b>	2	---
Lead	ppm	ASTM D5185m	>15	<b>0</b>	0	---
Copper	ppm	ASTM D5185m	>40	<b>&lt;1</b>	<1	---
Tin	ppm	ASTM D5185m	>10	<b>0</b>	0	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	MODER	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

## CONTAMINATION

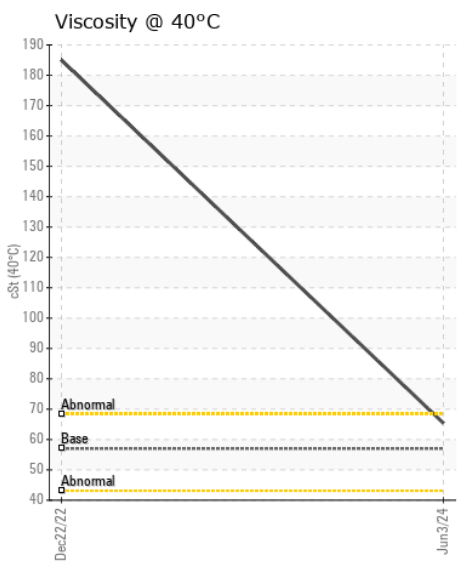
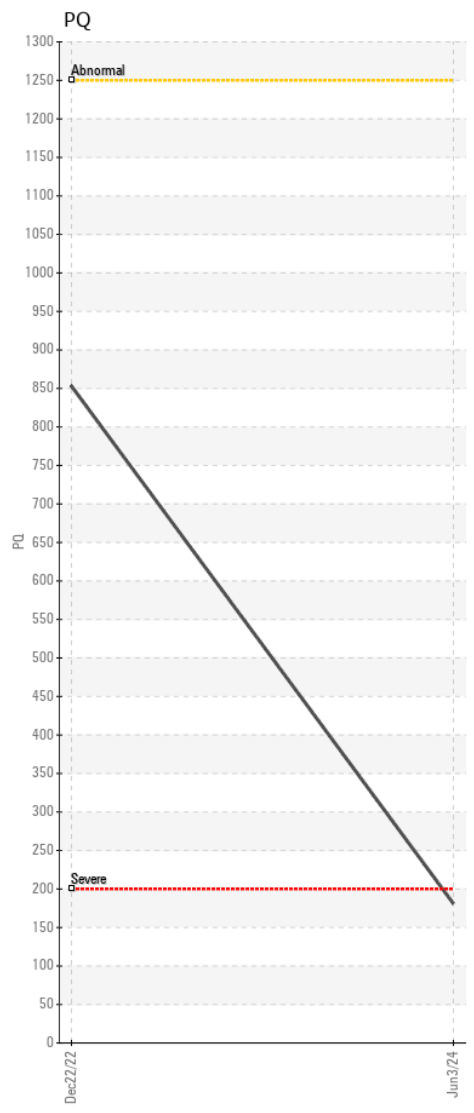
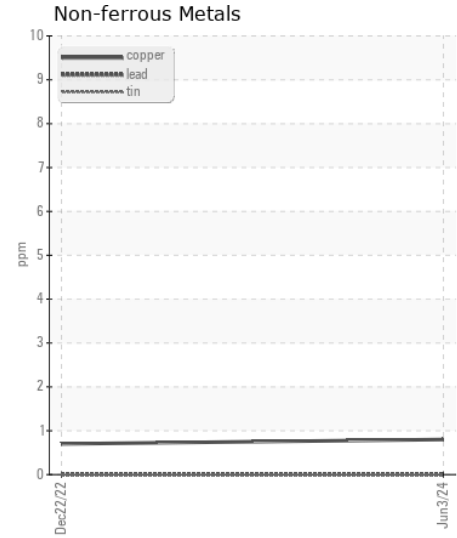
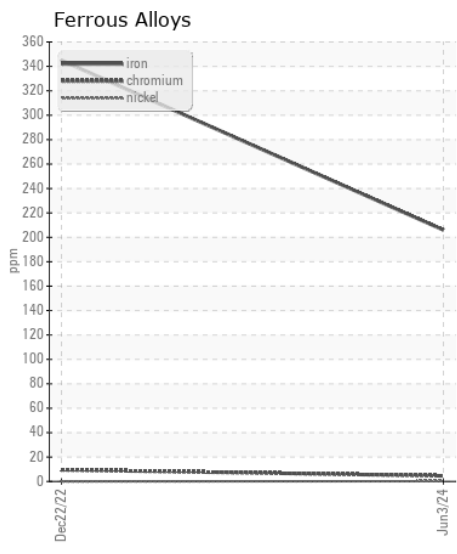
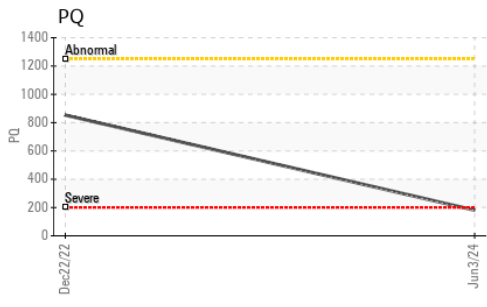
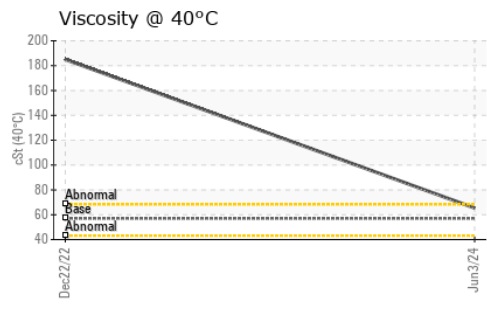
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	<b>64</b>	20	---
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	<1	---
Water		WC Method	>0.075	<b>NEG</b>	NEG	---
Silt	scalar	*Visual	NONE	<b>MODER</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual	>0.075	<b>NEG</b>	NEG	---

## FLUID CONDITION

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

Sodium	ppm	ASTM D5185m	>51	<b>4</b>	0	---
Boron	ppm	ASTM D5185m	6	<b>23</b>	79	---
Barium	ppm	ASTM D5185m	0	<b>2</b>	0	---
Molybdenum	ppm	ASTM D5185m	0	<b>3</b>	<1	---
Manganese	ppm	ASTM D5185m		<b>4</b>	8	---
Magnesium	ppm	ASTM D5185m	145	<b>95</b>	<1	---
Calcium	ppm	ASTM D5185m	3570	<b>2970</b>	21	---
Phosphorus	ppm	ASTM D5185m	1290	<b>952</b>	486	---
Zinc	ppm	ASTM D5185m	1640	<b>1025</b>	18	---
Sulfur	ppm	ASTM D5185m		<b>5899</b>	17005	---
Visc @ 40°C	cSt	ASTM D445	57.0	<b>65.4</b>	185	---



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LEC0041034      **Received** : 19 Jun 2024  
**Lab Number** : 06214974      **Tested** : 20 Jun 2024  
**Unique Number** : 11087838      **Diagnosed** : 20 Jun 2024 - Wes Davis  
**Test Package** : CONST ( Additional Tests: PQ )

**RUSSELL TREE EXPERTS**  
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Certificate L2367  
 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)