



# OIL ANALYSIS REPORT

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



Area  
**{unassigned}**  
Machine Id  
**JOHN DEERE 250G 1FF250GXCKF611322**  
Component  
**Right Propel Gearbox**  
Fluid  
**JOHN DEERE HY-GARD HYD/TRANS (2 GAL)**

## RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The oil 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>LEC0050170</b>	LEC0043125	LEC0033568
Sample Date		Client Info		<b>15 May 2024</b>	05 Jul 2023	19 Aug 2022
Machine Age	hrs	Client Info		<b>3350</b>	2878	2257
Oil Age	hrs	Client Info		<b>472</b>	621	485
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>None</b>	None	None
Sample Status				<b>ABNORMAL</b>	ABNORMAL	ATTENTION

## WEAR

The copper level is abnormal. All other component wear rates are normal.

PQ		ASTM D8184		<b>171</b>	238	97
Iron	ppm	ASTM D5185m	>1250	<b>212</b>	314	249
Chromium	ppm	ASTM D5185m	>10	<b>2</b>	3	3
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	2	2
Silver	ppm	ASTM D5185m		<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m		<b>13</b>	21	34
Lead	ppm	ASTM D5185m		<b>1</b>	0	<1
Copper	ppm	ASTM D5185m		<b>45</b>	<1	<1
Tin	ppm	ASTM D5185m		<b>6</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

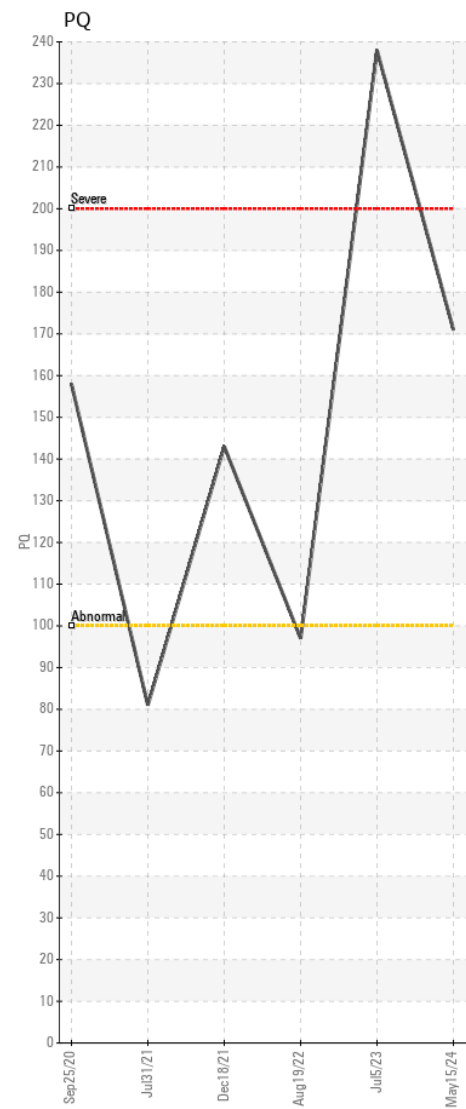
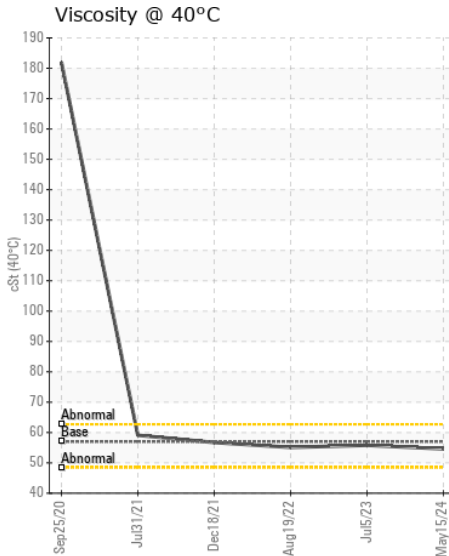
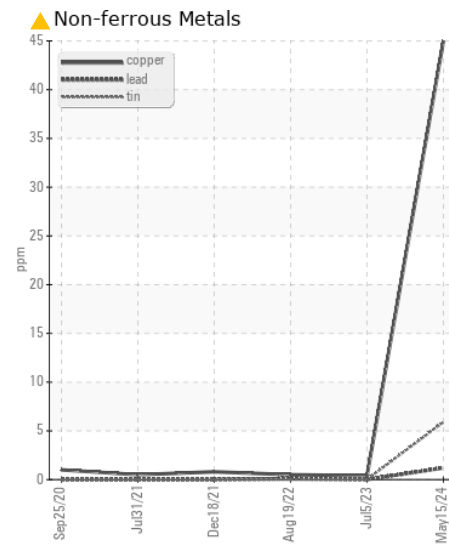
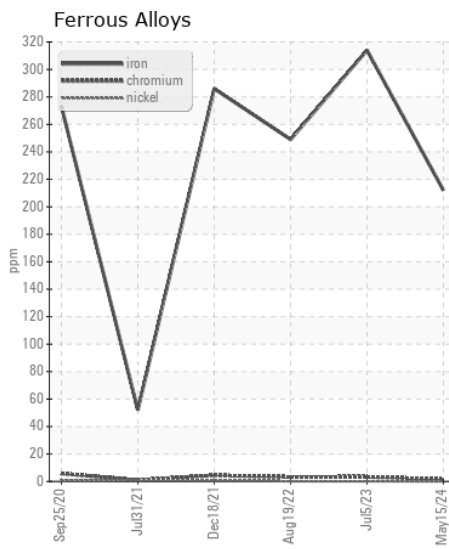
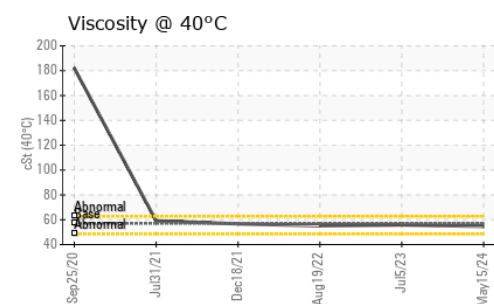
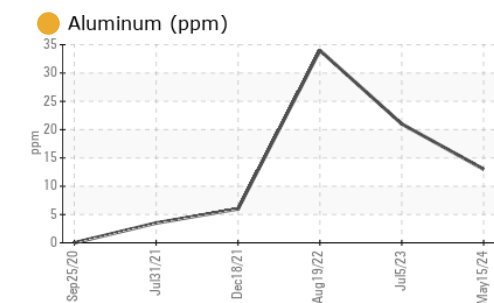
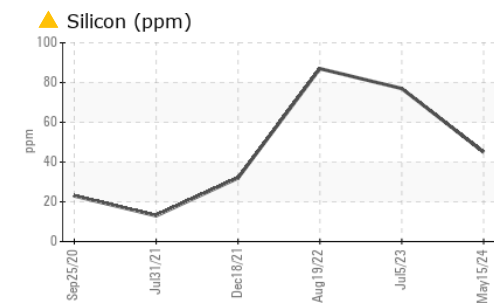
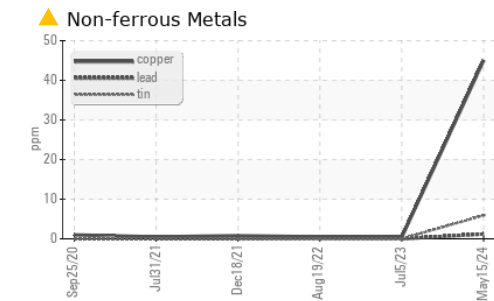
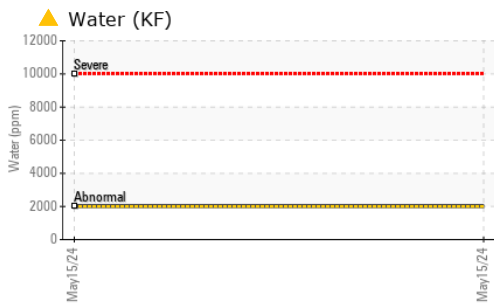
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. There is a light concentration of water present in the oil.

Silicon	ppm	ASTM D5185m		<b>45</b>	77	87
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	4	4
Water	%	ASTM D6304	>0.2	<b>0.200</b>	---	---
ppm Water	ppm	ASTM D6304	>2000	<b>2000</b>	---	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	LIGHT	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>0.2%</b>	NEG	NEG

## FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		<b>&lt;1</b>	1	<1
Boron	ppm	ASTM D5185m	6	<b>2</b>	11	9
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	0	<b>3</b>	4	2
Manganese	ppm	ASTM D5185m		<b>1</b>	3	3
Magnesium	ppm	ASTM D5185m	145	<b>105</b>	109	103
Calcium	ppm	ASTM D5185m	3570	<b>3236</b>	3287	3199
Phosphorus	ppm	ASTM D5185m	1290	<b>1009</b>	953	940
Zinc	ppm	ASTM D5185m	1640	<b>1156</b>	1172	1141
Sulfur	ppm	ASTM D5185m		<b>4157</b>	3946	3270
Visc @ 40°C	cSt	ASTM D445	57.0	<b>54.6</b>	55.8	55.1



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LEC0050170 **Received** : 21 May 2024  
**Lab Number** : 06186498 **Tested** : 22 May 2024  
**Unique Number** : 11043250 **Diagnosed** : 23 May 2024 - Angela Borella  
**Test Package** : CONST ( Additional Tests: KF, PQ )

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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)