



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION



Machine Id  
**John Deere 650J 650J-3 (S/N 1T0650JXVBD204237)**  
 Component  
**Left Final Drive**  
 Fluid  
**SAE 50W (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>TLY0002441</b>	---	---
Sample Date		Client Info		<b>22 May 2024</b>	---	---
Machine Age	hrs	Client Info		<b>12047</b>	---	---
Oil Age	hrs	Client Info		<b>11607</b>	---	---
Filter Age	hrs	Client Info		<b>11607</b>	---	---
Oil Changed		Client Info		<b>Not Changed</b>	---	---
Filter Changed		Client Info		<b>Not Changed</b>	---	---
Sample Status				<b>ATTENTION</b>	---	---

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>750	<b>107</b>	---	---
Chromium	ppm	ASTM D5185m	>9	<b>&lt;1</b>	---	---
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	---	---
Titanium	ppm	ASTM D5185m		<b>0</b>	---	---
Silver	ppm	ASTM D5185m		<b>0</b>	---	---
Aluminum	ppm	ASTM D5185m	>40	<b>&lt;1</b>	---	---
Lead	ppm	ASTM D5185m	>15	<b>0</b>	---	---
Copper	ppm	ASTM D5185m	>40	<b>0</b>	---	---
Tin	ppm	ASTM D5185m	>10	<b>0</b>	---	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	---	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---

## CONTAMINATION

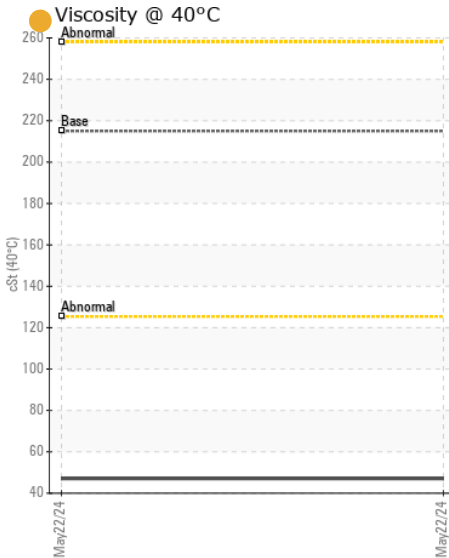
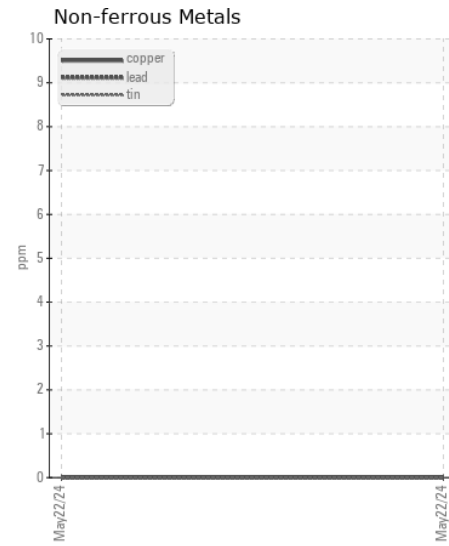
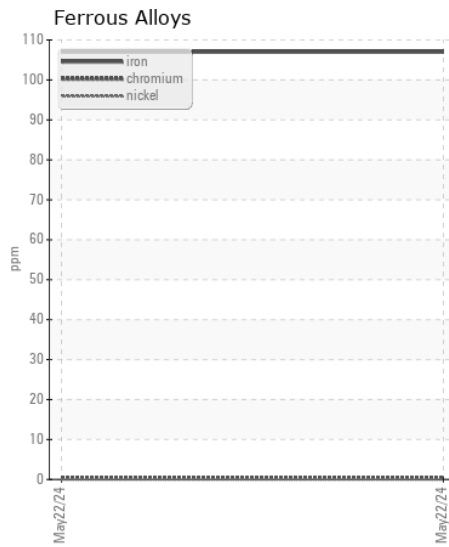
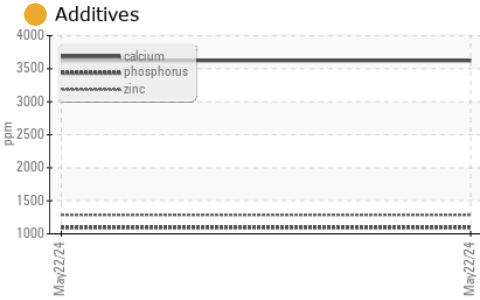
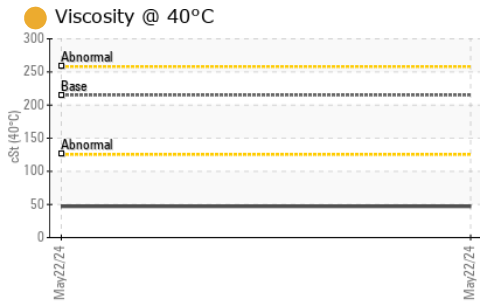
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	<b>22</b>	---	---
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	---	---
Water		WC Method	>0.075	<b>NEG</b>	---	---
Silt	scalar	*Visual	NONE	<b>LIGHT</b>	---	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	---	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	---	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	---	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	---	---
Emulsified Water	scalar	*Visual	>0.075	<b>NEG</b>	---	---

## FLUID CONDITION

The oil viscosity is lower than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type.

Sodium	ppm	ASTM D5185m	>51	<b>&lt;1</b>	---	---
Boron	ppm	ASTM D5185m		<b>0</b>	---	---
Barium	ppm	ASTM D5185m		<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185m		<b>0</b>	---	---
Manganese	ppm	ASTM D5185m		<b>1</b>	---	---
Magnesium	ppm	ASTM D5185m		<b>105</b>	---	---
Calcium	ppm	ASTM D5185m		<b>3623</b>	---	---
Phosphorus	ppm	ASTM D5185m		<b>1096</b>	---	---
Zinc	ppm	ASTM D5185m		<b>1286</b>	---	---
Sulfur	ppm	ASTM D5185m		<b>4615</b>	---	---
Visc @ 40°C	cSt	ASTM D445	215	<b>47.1</b>	---	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513

**Sample No.** : TLY0002441

**Lab Number** : 06194307

**Unique Number** : 11056430

**Test Package** : CONST

**Received** : 29 May 2024

**Tested** : 31 May 2024

**Diagnosed** : 31 May 2024 - Don Baldrige

**GAINES & COMPANY**

112 WESTMINISTER RD

REISTERSTOWN, MD

US 21136

Contact: BRANDY BADING

bbading@gainesandco.com

T:

F:

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)