



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	ATTENTION



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

RECOMMENDATION

We advise that you check for the source of water entry. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TLY0002439	---	---
Sample Date		Client Info		22 May 2024	---	---
Machine Age	hrs	Client Info		12047	---	---
Oil Age	hrs	Client Info		11607	---	---
Filter Age	hrs	Client Info		11607	---	---
Oil Changed		Client Info		Not Changed	---	---
Filter Changed		Client Info		Not Changed	---	---
Sample Status				ABNORMAL	---	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>750	174	---	---
Chromium	ppm	ASTM D5185m	>9	2	---	---
Nickel	ppm	ASTM D5185m	>10	0	---	---
Titanium	ppm	ASTM D5185m		<1	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m	>40	8	---	---
Lead	ppm	ASTM D5185m	>15	0	---	---
Copper	ppm	ASTM D5185m	>40	0	---	---
Tin	ppm	ASTM D5185m	>10	0	---	---
Vanadium	ppm	ASTM D5185m		0	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

CONTAMINATION

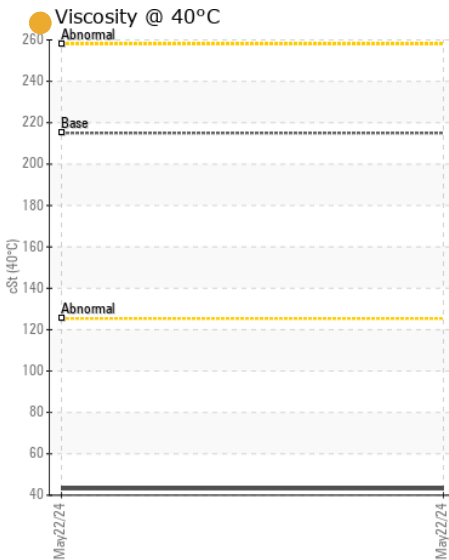
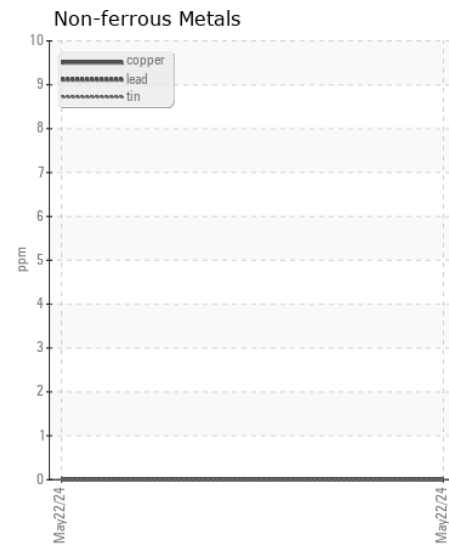
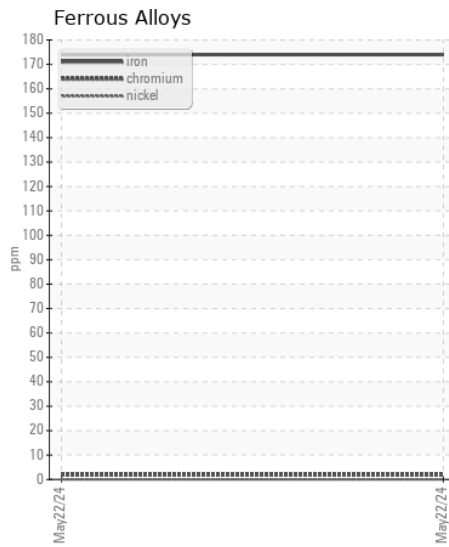
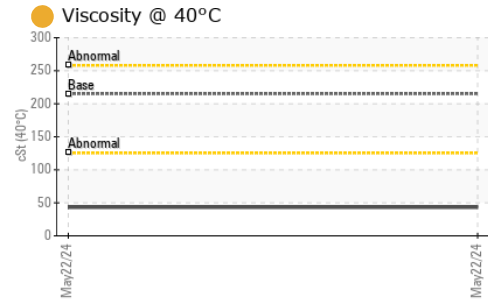
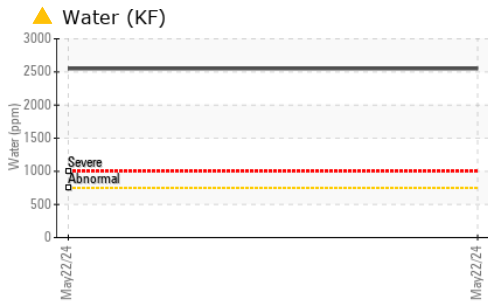
There is a moderate concentration of water present in the oil.

Silicon	ppm	ASTM D5185m	>75	59	---	---
Potassium	ppm	ASTM D5185m	>20	2	---	---
Water	%	ASTM D6304	>0.075	▲ 0.255	---	---
ppm Water	ppm	ASTM D6304	>750	▲ 2550	---	---
Silt	scalar	*Visual	NONE	MODER	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.075	▲ 0.2%	---	---

FLUID CONDITION

The oil viscosity is lower than normal. Confirm oil type.

Sodium	ppm	ASTM D5185m	>51	3	---	---
Boron	ppm	ASTM D5185m		<1	---	---
Barium	ppm	ASTM D5185m		0	---	---
Molybdenum	ppm	ASTM D5185m		<1	---	---
Manganese	ppm	ASTM D5185m		3	---	---
Magnesium	ppm	ASTM D5185m		102	---	---
Calcium	ppm	ASTM D5185m		3435	---	---
Phosphorus	ppm	ASTM D5185m		1006	---	---
Zinc	ppm	ASTM D5185m		1197	---	---
Sulfur	ppm	ASTM D5185m		4300	---	---
Visc @ 40°C	cSt	ASTM D445	215	● 43.2	---	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TLY0002439 **Received** : 29 May 2024
Lab Number : 06194427 **Tested** : 31 May 2024
Unique Number : 11056550 **Diagnosed** : 31 May 2024 - Don Baldrige
Test Package : CONST (Additional Tests: KF)

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)

GAINES & COMPANY
 112 WESTMINISTER RD
 REISTERSTOWN, MD
 US 21136
 Contact: BRANDY BADING
 bbadings@gainesandco.com

T:
F: