



# OIL ANALYSIS REPORT

WEAR  
CONTAMINATION  
FLUID CONDITION

**ABNORMAL**  
**SEVERE**  
**NORMAL**

Machine Id  
**E-180**

Component  
**Right Final Drive**

Fluid  
**JOHN DEERE GL-5 80W90 (--- 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.

## WEAR

Gear wear is indicated.

## CONTAMINATION

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

## FLUID CONDITION

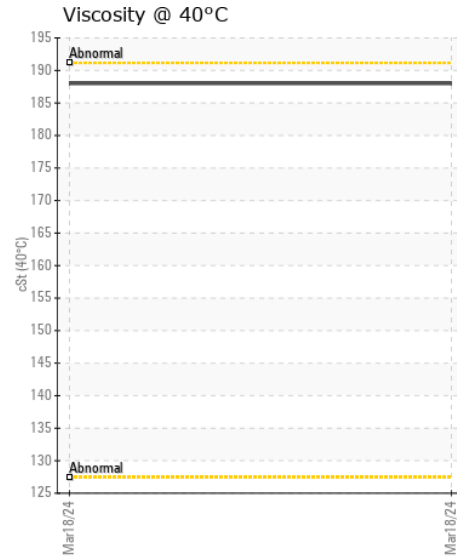
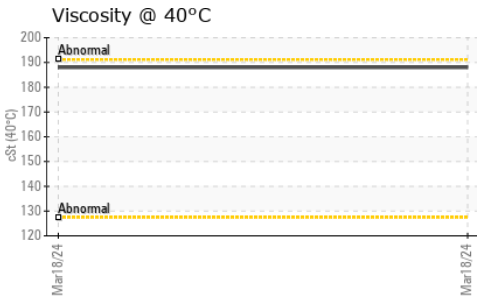
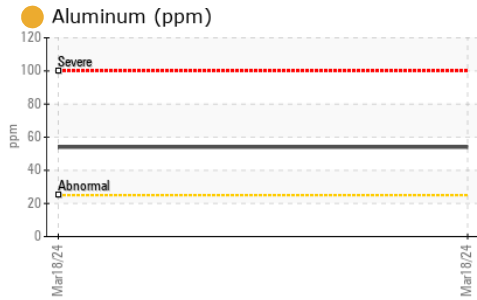
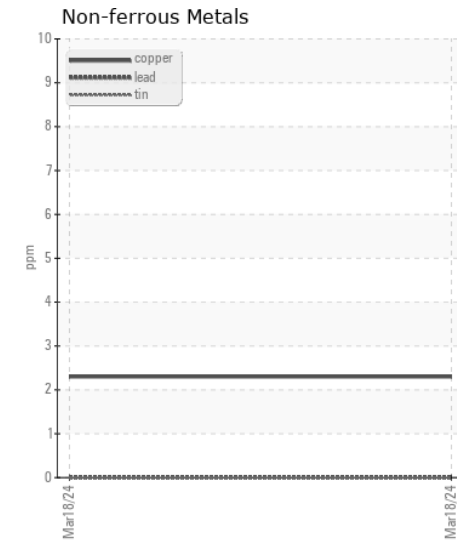
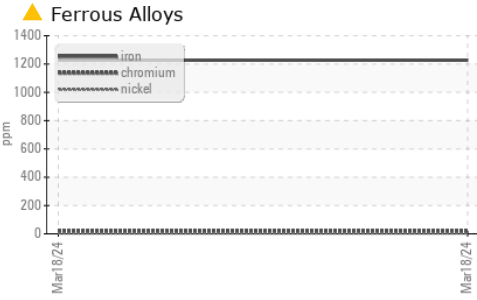
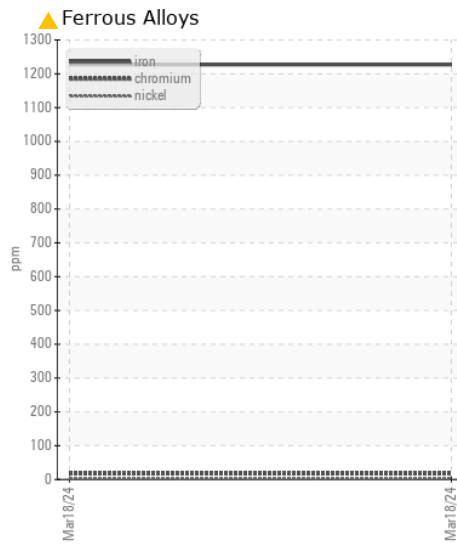
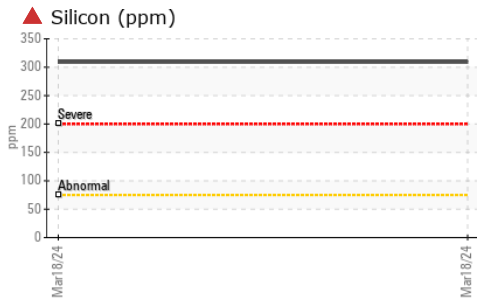
The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0878707</b>	---	---
Sample Date		Client Info		<b>18 Mar 2024</b>	---	---
Machine Age	hrs	Client Info		<b>1140</b>	---	---
Oil Age	hrs	Client Info		<b>1140</b>	---	---
Filter Age	hrs	Client Info		<b>0</b>	---	---
Oil Changed		Client Info		<b>Changed</b>	---	---
Filter Changed		Client Info		<b>Not Changed</b>	---	---
Sample Status				<b>SEVERE</b>	---	---

Iron	ppm	ASTM D5185m	>500	<b>▲ 1227</b>	---	---
Chromium	ppm	ASTM D5185m	>10	<b>▲ 17</b>	---	---
Nickel	ppm	ASTM D5185m	>10	<b>3</b>	---	---
Titanium	ppm	ASTM D5185m		<b>4</b>	---	---
Silver	ppm	ASTM D5185m		<b>0</b>	---	---
Aluminum	ppm	ASTM D5185m	>25	<b>● 54</b>	---	---
Lead	ppm	ASTM D5185m	>25	<b>0</b>	---	---
Copper	ppm	ASTM D5185m	>50	<b>2</b>	---	---
Tin	ppm	ASTM D5185m	>10	<b>0</b>	---	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---

Silicon	ppm	ASTM D5185m	>75	<b>▲ 309</b>	---	---
Potassium	ppm	ASTM D5185m	>20	<b>14</b>	---	---
Water		WC Method	>0.2	<b>NEG</b>	---	---
Silt	scalar	*Visual	NONE	<b>NONE</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	>0.2	<b>NEG</b>	---	---

Sodium	ppm	ASTM D5185m		<b>2</b>	---	---
Boron	ppm	ASTM D5185m		<b>68</b>	---	---
Barium	ppm	ASTM D5185m		<b>2</b>	---	---
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Manganese	ppm	ASTM D5185m		<b>19</b>	---	---
Magnesium	ppm	ASTM D5185m		<b>4</b>	---	---
Calcium	ppm	ASTM D5185m		<b>46</b>	---	---
Phosphorus	ppm	ASTM D5185m		<b>499</b>	---	---
Zinc	ppm	ASTM D5185m		<b>25</b>	---	---
Sulfur	ppm	ASTM D5185m		<b>17671</b>	---	---
Visc @ 40°C	cSt	ASTM D445		<b>188</b>	---	---



Certificate L2367

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

**Sample No.** : WC0878707

**Lab Number** : 06122760

**Unique Number** : 10936911

**Test Package** : CONST

**Received** : 19 Mar 2024

**Tested** : 20 Mar 2024

**Diagnosed** : 21 Mar 2024 - Jonathan Hester

**DUKE LAZZARA**

4201 FAYETTEVILLE RD

RALEIGH, NC

US 27603

Contact: NICK DIXON

NICK.DIXON@DUKELAZZAM.COM

T: (919)760-7797

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)