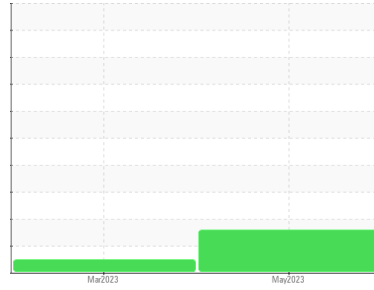




# PROBLEM SUMMARY

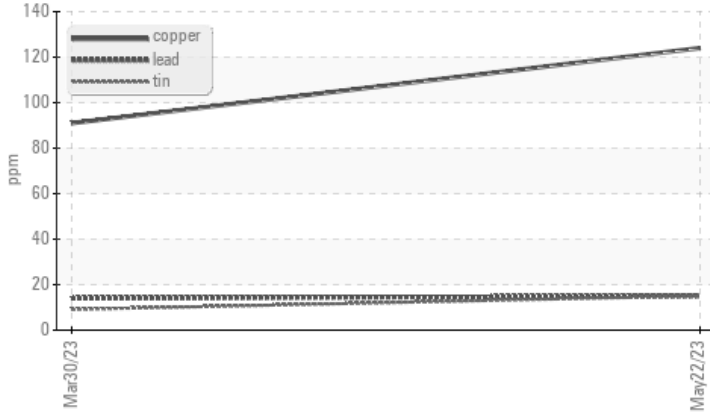
Sample Rating Trend



Machine Id  
**JOHN DEERE 8R310 11614 (S/N 1RW8310DTNB208641)**  
 Component  
**Front Differential**  
 Fluid  
**TDH FLUID SAE 70W80 (--- GAL)**

## COMPONENT CONDITION SUMMARY

### ▲ Non-ferrous Metals



## RECOMMENDATION

The oil change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

## PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	NORMAL	---
Copper	ppm	ASTM D5185m	>100	▲ 124	91	---
Tin	ppm	ASTM D5185m	>10	▲ 15	9	---

Customer Id: TRANEW  
 Sample No.: WC0816179  
 Lab Number: 05856458  
 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data:  
 Sean Felton +1 919-379-4092  
[sfelton@wearcheckusa.com](mailto:sfelton@wearcheckusa.com)

To change component or sample information:  
 Customer Service +1 1-800-237-1369  
[customerservice@wearcheck.com](mailto:customerservice@wearcheck.com)

## RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Information Required	---	---	?	Please specify the brand, type, and viscosity of the oil on your next sample.

## HISTORICAL DIAGNOSIS

**30 Mar 2023 Diag: Don Baldrige**

**NORMAL**



Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

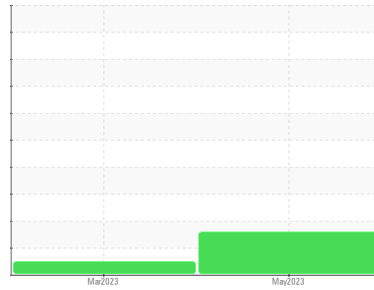
view report





# OIL ANALYSIS REPORT

Sample Rating Trend



**WEAR**



Machine Id  
**JOHN DEERE 8R310 11614 (S/N 1RW8310DTNB208641)**

Component  
**Front Differential**

Fluid  
**TDH FLUID SAE 70W80 (--- GAL)**

## DIAGNOSIS

### ▲ Recommendation

The oil change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

### ▲ Wear

Bearing and/or bushing wear is indicated.

### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

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

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0816179</b>	WC0755190	---
Sample Date	Client Info		<b>22 May 2023</b>	30 Mar 2023	---
Machine Age	hrs	Client Info	<b>1770</b>	909	---
Oil Age	hrs	Client Info	<b>861</b>	909	---
Oil Changed	Client Info		<b>Changed</b>	Changed	---
Sample Status			<b>ABNORMAL</b>	NORMAL	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >500	<b>82</b>	63	---
Chromium	ppm	ASTM D5185m >10	<b>&lt;1</b>	<1	---
Nickel	ppm	ASTM D5185m >10	<b>0</b>	0	---
Titanium	ppm	ASTM D5185m	<b>0</b>	<1	---
Silver	ppm	ASTM D5185m	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m >25	<b>1</b>	2	---
Lead	ppm	ASTM D5185m >25	<b>15</b>	14	---
Copper	ppm	ASTM D5185m >100	<b>▲ 124</b>	91	---
Tin	ppm	ASTM D5185m >10	<b>▲ 15</b>	9	---
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	---
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 10	<b>101</b>	<1	---
Barium	ppm	ASTM D5185m 10	<b>0</b>	1	---
Molybdenum	ppm	ASTM D5185m 10	<b>7</b>	<1	---
Manganese	ppm	ASTM D5185m	<b>2</b>	6	---
Magnesium	ppm	ASTM D5185m 100	<b>92</b>	110	---
Calcium	ppm	ASTM D5185m 3500	<b>3297</b>	3468	---
Phosphorus	ppm	ASTM D5185m 1150	<b>1076</b>	956	---
Zinc	ppm	ASTM D5185m 1150	<b>1338</b>	1172	---
Sulfur	ppm	ASTM D5185m 5000	<b>4209</b>	4069	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >75	<b>14</b>	17	---
Sodium	ppm	ASTM D5185m	<b>2</b>	7	---
Potassium	ppm	ASTM D5185m >20	<b>0</b>	0	---

## VISUAL

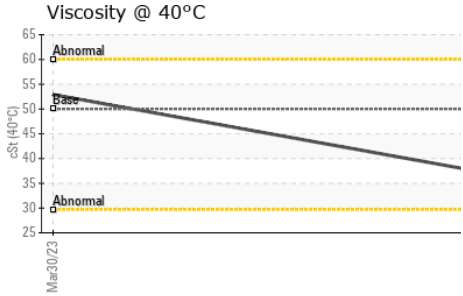
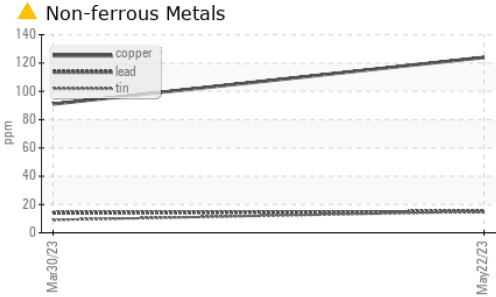
	method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual NONE	<b>NONE</b>	NONE	---
Precipitate	scalar	*Visual NONE	<b>NONE</b>	NONE	---
Silt	scalar	*Visual NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual NONE	<b>NONE</b>	NONE	---
Sand/Dirt	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 >.2	<b>NEG</b>	NEG	---
Free Water	scalar	*Visual	<b>NEG</b>	NEG	---

## FLUID PROPERTIES

	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 50	<b>37.2</b>	52.9	---

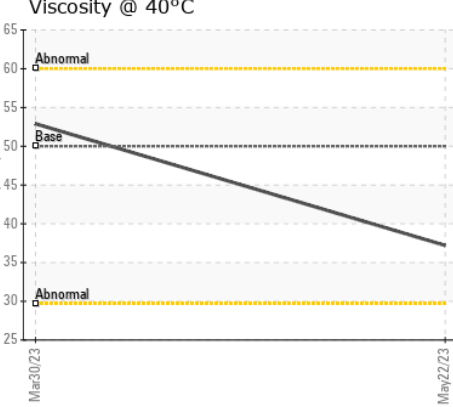
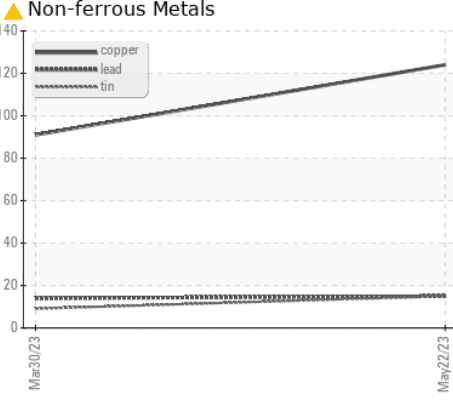
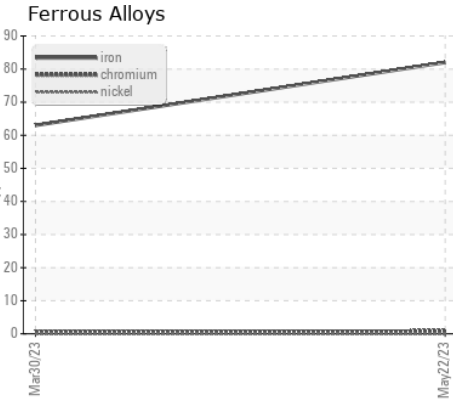


# OIL ANALYSIS REPORT



SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			no image	no image	no image
Bottom			no image	no image	no image

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0816179      **Received** : 24 May 2023  
**Lab Number** : 05856458      **Diagnosed** : 26 May 2023  
**Unique Number** : 10485813      **Diagnostician** : Sean Felton  
**Test Package** : CONST

**TRADER CONSTRUCTION CO.**  
 PO DRAWER 1578  
 NEW BERN, NC  
 US 28563  
 Contact: MIKE WYATT  
 mw Wyatt@traderconstruction.com  
 T: (252)633-1399  
 F: (252)638-4871

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)