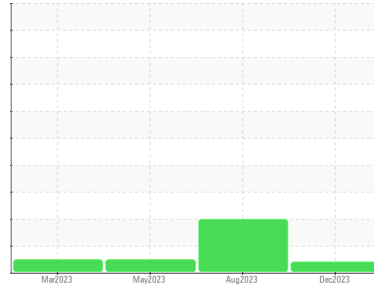




# PROBLEM SUMMARY

Sample Rating Trend



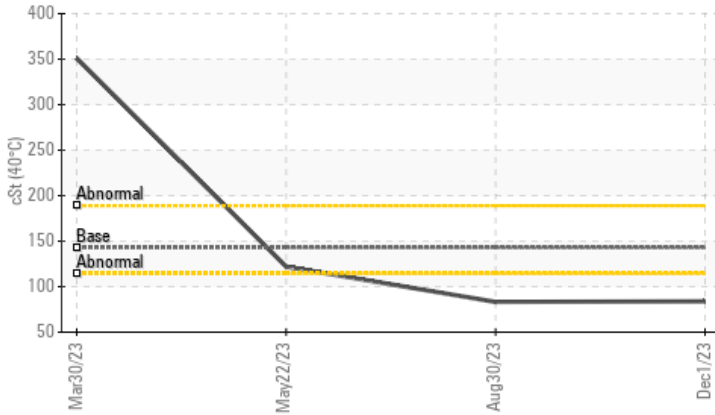
## VISCOSITY



Machine Id  
**JOHN DEERE 8R310 11614 (S/N 1RW8310DTNB208641)**  
 Component  
**Front Left Final Drive**  
 Fluid  
**GEAR OIL SAE 80W90 (--- GAL)**

### COMPONENT CONDITION SUMMARY

▲ Viscosity @ 40°C



### RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

### PROBLEMATIC TEST RESULTS

Sample Status				ATTENTION	ABNORMAL	NORMAL
Visc @ 40°C	cSt	ASTM D445	143	▲ 83.8	▲ 83.2	122

Customer Id: TRANEW  
 Sample No.: WC0879423  
 Lab Number: 06026808  
 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data:  
 Don Baldrige +1  
[don.b505@comcast.net](mailto:don.b505@comcast.net)

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

## RECOMMENDED ACTIONS

*There are no recommended actions for this sample.*

## HISTORICAL DIAGNOSIS

### 30 Aug 2023 Diag: Don Baldrige

#### WEAR



The oil change at the time of sampling has been noted. No corrective action is recommended at this time. We recommend an early resample to monitor this condition. Gear wear is indicated. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. Confirm oil type.

view report



### 22 May 2023 Diag: Sean Felton

#### NORMAL



Resample at the next service interval to monitor. 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



### 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.

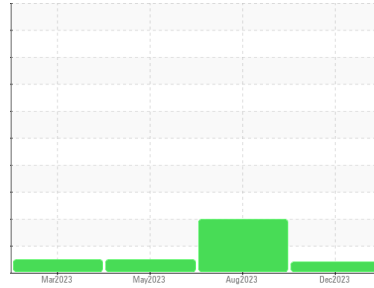
view report





# OIL ANALYSIS REPORT

Sample Rating Trend



## VISCOSITY



Machine Id  
**JOHN DEERE 8R310 11614 (S/N 1RW8310DTNB208641)**  
 Component  
**Front Left Final Drive**  
 Fluid  
**GEAR OIL SAE 80W90 (--- GAL)**

### DIAGNOSIS

#### ▲ Recommendation

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

#### ▲ Fluid Condition

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

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>WC0879423</b>	WC0837041	WC0816177
Sample Date	Client Info			<b>01 Dec 2023</b>	30 Aug 2023	22 May 2023
Machine Age	hrs	Client Info		<b>4158</b>	3126	1770
Oil Age	hrs	Client Info		<b>1032</b>	1356	861
Oil Changed	Client Info			<b>Changed</b>	Changed	Changed
Sample Status				<b>ATTENTION</b>	ABNORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Water	WC Method		>0.075	<b>NEG</b>	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>750	<b>582</b>	▲ 1020	293
Chromium	ppm	ASTM D5185m	>9	<b>6</b>	▲ 9	2
Nickel	ppm	ASTM D5185m	>10	<b>1</b>	3	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>40	<b>0</b>	2	<1
Lead	ppm	ASTM D5185m	>15	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>40	<b>3</b>	4	2
Tin	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	0

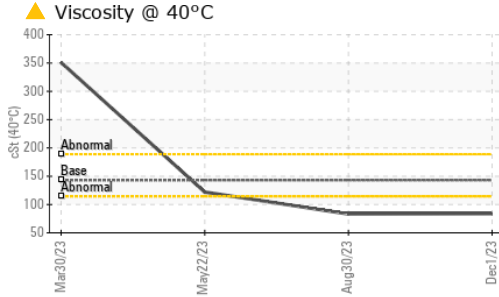
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	400	<b>89</b>	71	15
Barium	ppm	ASTM D5185m	200	<b>0</b>	<1	2
Molybdenum	ppm	ASTM D5185m	12	<b>&lt;1</b>	<1	1
Manganese	ppm	ASTM D5185m		<b>5</b>	10	8
Magnesium	ppm	ASTM D5185m	12	<b>4</b>	8	5
Calcium	ppm	ASTM D5185m	150	<b>22</b>	26	37
Phosphorus	ppm	ASTM D5185m	1650	<b>652</b>	664	458
Zinc	ppm	ASTM D5185m	125	<b>23</b>	35	17
Sulfur	ppm	ASTM D5185m	22500	<b>16655</b>	23633	21396

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	<b>6</b>	7	4
Sodium	ppm	ASTM D5185m	>170	<b>3</b>	1	2
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	1	<1

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	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	>0.075	<b>NEG</b>	NEG	NEG
Free Water	scalar	*Visual		<b>NEG</b>	NEG	NEG



# OIL ANALYSIS REPORT

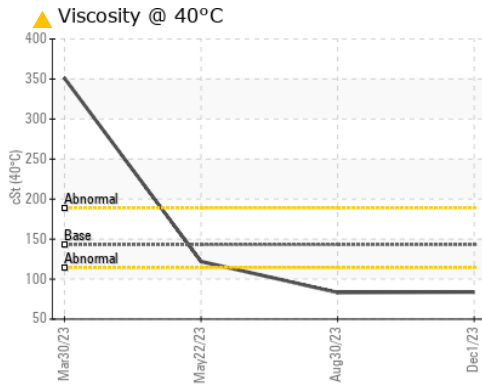
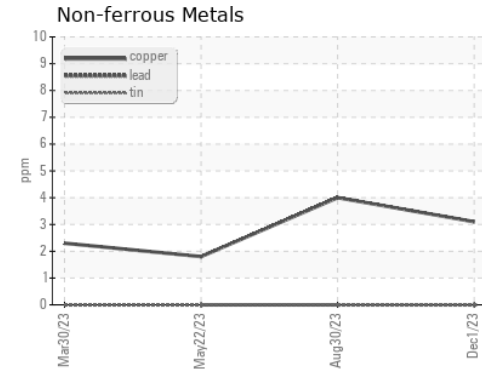
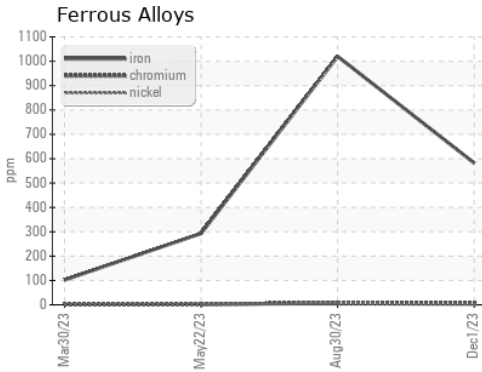


FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 143	▲ 83.8	▲ 83.2	122

SAMPLE IMAGES	method	limit/base	current	history1	history2
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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.** : WC0879423      **Received** : 06 Dec 2023  
**Lab Number** : 06026808      **Diagnosed** : 08 Dec 2023  
**Unique Number** : 10776599      **Diagnostician** : Don Baldrige  
**Test Package** : CONST

**TRADER CONSTRUCTION CO.**  
 PO DRAWER 1578  
 NEW BERN, NC  
 US 28563  
 Contact: MIKE WYATT  
 mwyatt@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)