



# OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Machine Id  
**L-441**  
 Component  
**Front Axle**  
 Fluid  
**JOHN DEERE HY-GARD HYD/TRANS (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0878692</b>	WC0828514	WC0828521
Sample Date		Client Info		<b>01 Feb 2024</b>	23 Oct 2023	18 Jul 2023
Machine Age	hrs	Client Info		<b>2315</b>	1738	1121
Oil Age	hrs	Client Info		<b>1194</b>	617	576
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Not Changd	Changed
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	<b>72</b>	57	247
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	2
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	<1	1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>&lt;1</b>	1	3
Lead	ppm	ASTM D5185m	>25	<b>8</b>	5	10
Copper	ppm	ASTM D5185m	>50	<b>10</b>	7	23
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	2
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

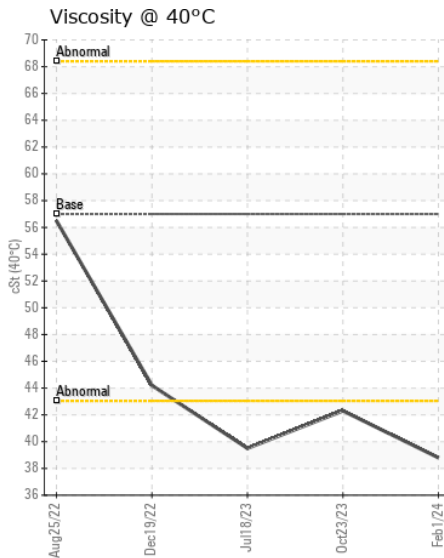
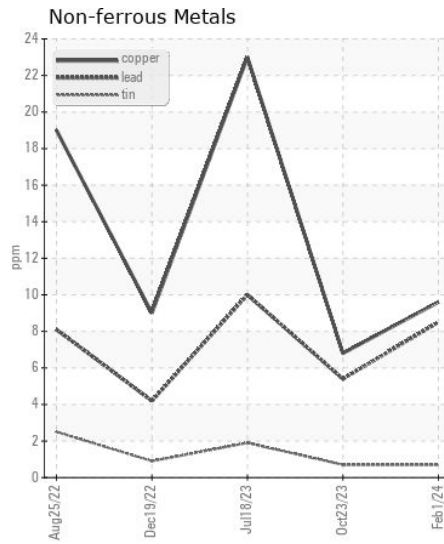
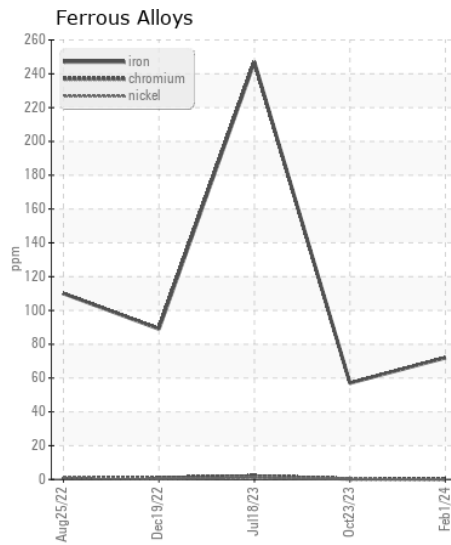
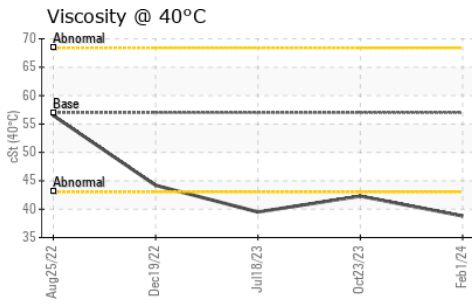
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	<b>12</b>	15	29
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	<1	2
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</b>	LIGHT	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	>0.2	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		<b>4</b>	4	7
Boron	ppm	ASTM D5185m	6	<b>94</b>	100	108
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	0	<b>0</b>	0	2
Manganese	ppm	ASTM D5185m		<b>3</b>	2	11
Magnesium	ppm	ASTM D5185m	145	<b>10</b>	15	21
Calcium	ppm	ASTM D5185m	3570	<b>3056</b>	3183	3679
Phosphorus	ppm	ASTM D5185m	1290	<b>1019</b>	1077	1157
Zinc	ppm	ASTM D5185m	1640	<b>1271</b>	1365	1422
Sulfur	ppm	ASTM D5185m		<b>3094</b>	3233	4056
Visc @ 40°C	cSt	ASTM D445	57.0	<b>38.8</b>	42.3	39.5



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0878692  
**Lab Number** : 06085070  
**Unique Number** : 10872515  
**Test Package** : CONST  
**Received** : 09 Feb 2024  
**Tested** : 11 Feb 2024  
**Diagnosed** : 12 Feb 2024 - Don Baldrige

**DUKE LAZZARA**  
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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)