



# OIL ANALYSIS REPORT

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

Machine Id  
**40401**  
 Component  
**Front Differential**  
 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>WC0846449</b>	WC0786244	WC0733613
Sample Date		Client Info		<b>02 May 2024</b>	07 Feb 2023	09 Nov 2022
Machine Age	hrs	Client Info		<b>12011</b>	10007	9580
Oil Age	hrs	Client Info		<b>1500</b>	0	1000
Filter Age	hrs	Client Info		<b>1500</b>	0	0
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>Not Changd</b>	Changed	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	<b>22</b>	23	24
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	0
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	2
Aluminum	ppm	ASTM D5185m	>25	<b>0</b>	0	<1
Lead	ppm	ASTM D5185m	>25	<b>25</b>	23	25
Copper	ppm	ASTM D5185m	>100	<b>16</b>	14	15
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	1
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

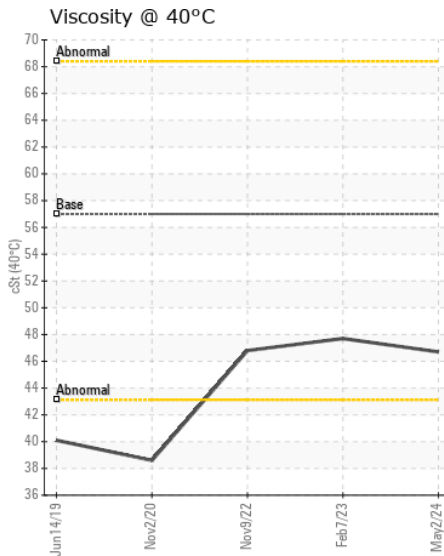
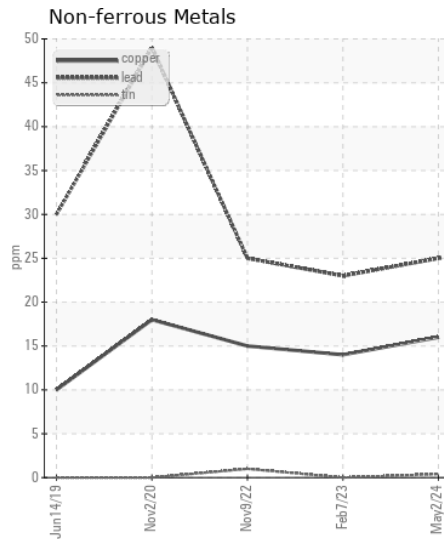
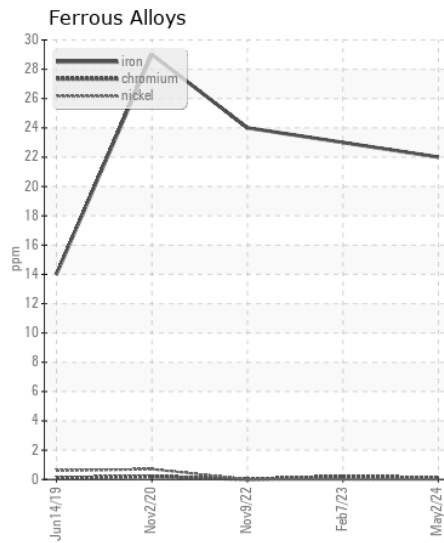
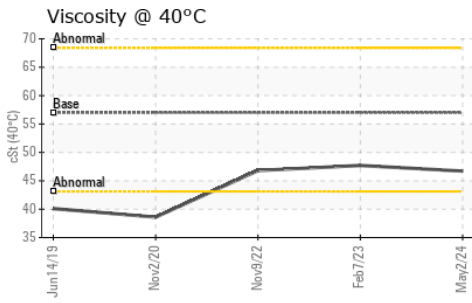
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	<b>3</b>	4	2
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	2	2
Water		WC Method	>.2	<b>NEG</b>	NEG	NEG
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	>.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>2</b>	1	0
Boron	ppm	ASTM D5185m	6	<b>36</b>	38	41
Barium	ppm	ASTM D5185m	0	<b>2</b>	0	0
Molybdenum	ppm	ASTM D5185m	0	<b>&lt;1</b>	3	<1
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	145	<b>71</b>	72	67
Calcium	ppm	ASTM D5185m	3570	<b>2953</b>	3062	3452
Phosphorus	ppm	ASTM D5185m	1290	<b>1043</b>	1011	1110
Zinc	ppm	ASTM D5185m	1640	<b>1180</b>	1213	1255
Sulfur	ppm	ASTM D5185m		<b>3766</b>	3272	4973
Visc @ 40°C	cSt	ASTM D445	57.0	<b>46.7</b>	47.7	46.8



Certificate L2367

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

**Sample No.** : WC0846449

**Lab Number** : 06177558

**Unique Number** : 11023611

**Test Package** : CONST

**Received** : 13 May 2024

**Tested** : 14 May 2024

**Diagnosed** : 15 May 2024 - Don Baldrige

**SULLIVAN EASTERN INC**

2860 C SLATER RD

MORRISVILLE, NC

US 27560

Contact: SCOTT SULLIVAN

ssullivan@sullivan-eastern.com

T: (919)484-8993

F: (919)484-2136

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)