



# OIL ANALYSIS REPORT

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



Area  
**Off Road**  
Machine Id  
**JOHNDEERE 544J LR449 (S/N DW544JZ612675)**  
Component  
**Rear Differential**  
Fluid  
**DURALENE Trans-Flo UTF (8 GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0675146</b>	WCMCF64266	WC0388250
Sample Date		Client Info		<b>25 Oct 2023</b>	08 Jun 2020	21 Nov 2019
Machine Age	hrs	Client Info		<b>15989</b>	14446	14119
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Chngd</b>	N/A	Changed
Filter Changed		Client Info		<b>N/A</b>	N/A	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	<b>112</b>	45	262
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	1
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	4
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>2</b>	2	6
Lead	ppm	ASTM D5185m	>25	<b>0</b>	0	<1
Copper	ppm	ASTM D5185m	>100	<b>4</b>	2	18
Tin	ppm	ASTM D5185m	>10	<b>0</b>	0	0
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

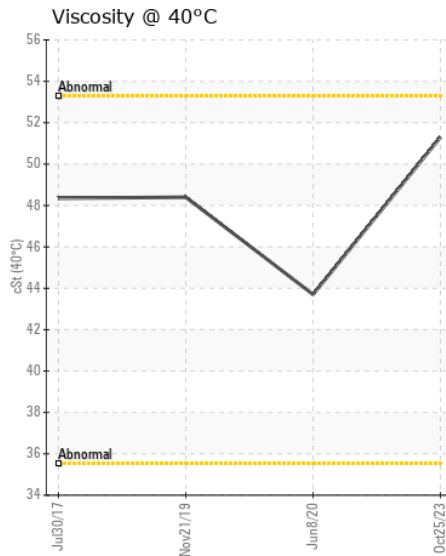
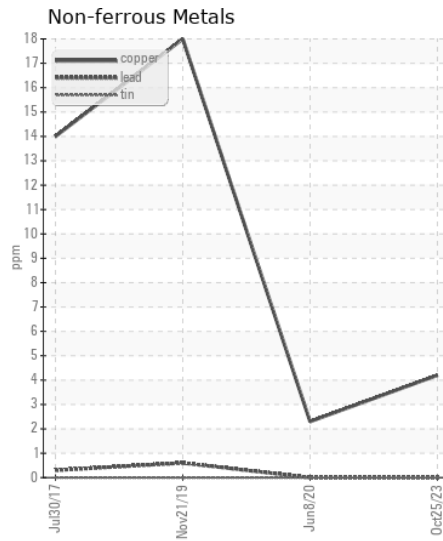
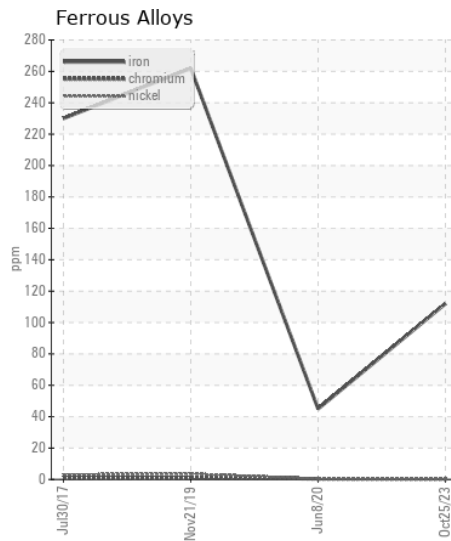
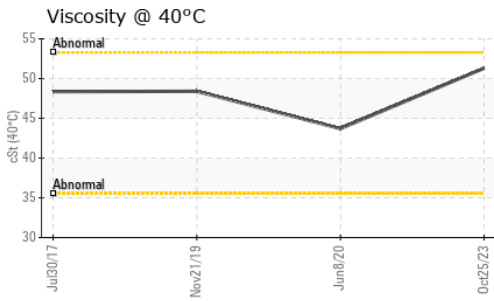
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185m	>75	<b>15</b>	15	31
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	6	6
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>	VLITE	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 fluid is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		<b>0</b>	7	5
Boron	ppm	ASTM D5185m		<b>24</b>	92	81
Barium	ppm	ASTM D5185m		<b>3</b>	0	<1
Molybdenum	ppm	ASTM D5185m		<b>6</b>	2	0
Manganese	ppm	ASTM D5185m		<b>1</b>	<1	4
Magnesium	ppm	ASTM D5185m		<b>121</b>	33	14
Calcium	ppm	ASTM D5185m		<b>3212</b>	3293	3254
Phosphorus	ppm	ASTM D5185m		<b>1105</b>	1082	936
Zinc	ppm	ASTM D5185m		<b>1261</b>	1279	1271
Sulfur	ppm	ASTM D5185m		<b>4656</b>	3217	5811
Visc @ 40°C	cSt	ASTM D445		<b>51.3</b>	43.7	48.4



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0675146 **Received** : 17 Jan 2024  
**Lab Number** : 06063213 **Diagnosed** : 19 Jan 2024  
**Unique Number** : 10834595 **Diagnostician** : Don Baldrige  
**Test Package** : CONST

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)

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