



# 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  
**Hydraulic System**  
Fluid  
**DURALENE Trans-Flo UTF (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0675145</b>	WCMCF64211	WC0388245
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>1000</b>	0	0
Oil Changed		Client Info		<b>Not Changed</b>	N/A	Changed
Filter Changed		Client Info		<b>Changed</b>	N/A	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>71	<b>7</b>	7	16
Chromium	ppm	ASTM D5185m	>11	<b>1</b>	1	2
Nickel	ppm	ASTM D5185m	>6	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m		<b>0</b>	<1	<1
Aluminum	ppm	ASTM D5185m	>11	<b>2</b>	1	3
Lead	ppm	ASTM D5185m	>13	<b>&lt;1</b>	0	1
Copper	ppm	ASTM D5185m	>21	<b>4</b>	3	6
Tin	ppm	ASTM D5185m	>5	<b>0</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

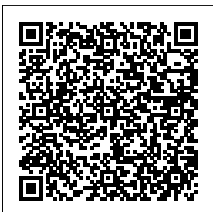
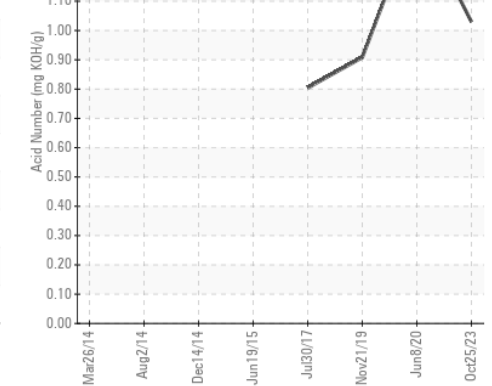
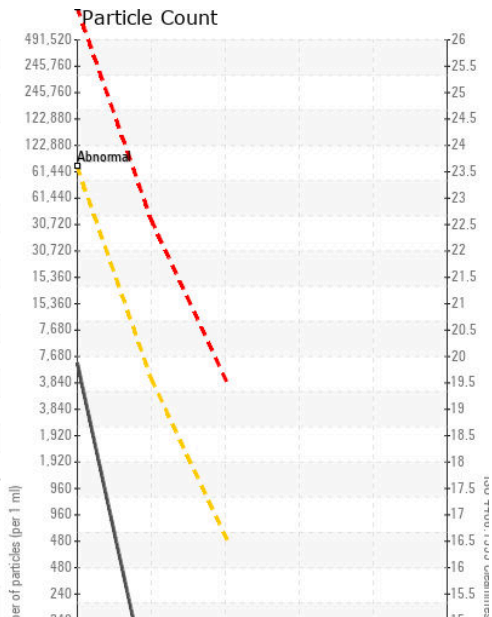
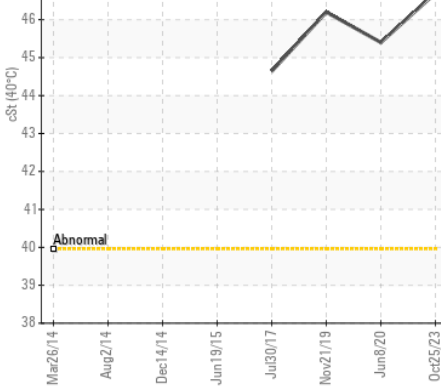
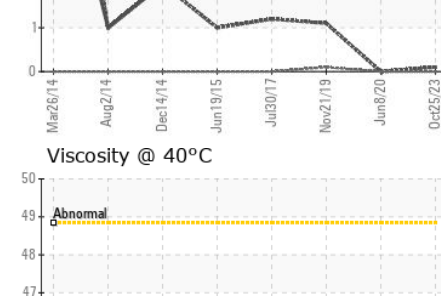
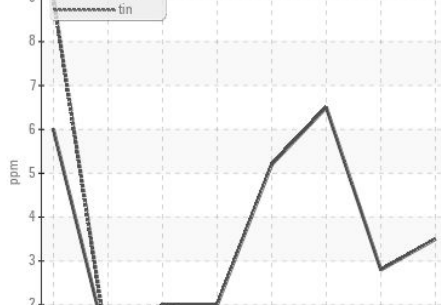
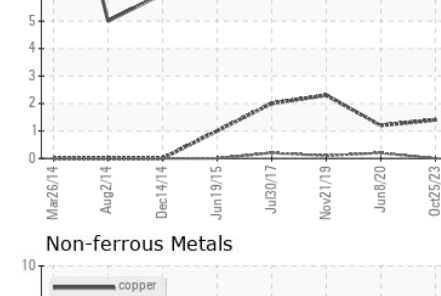
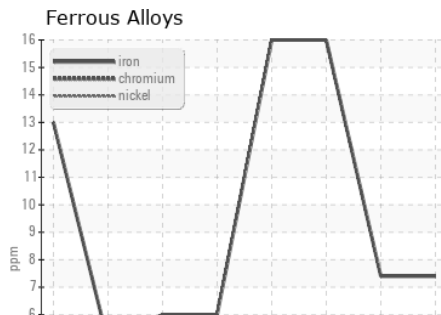
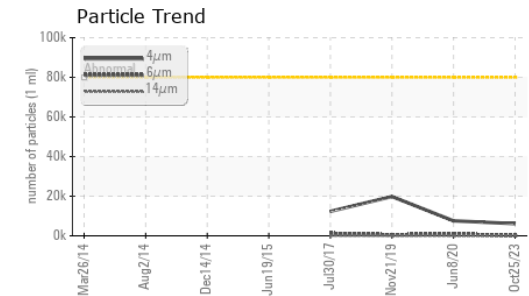
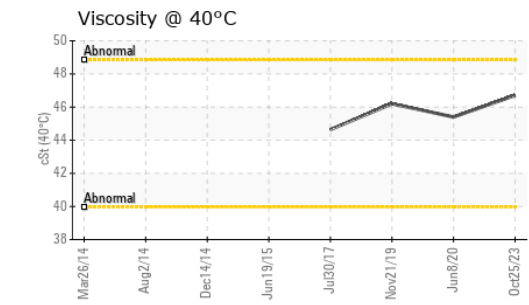
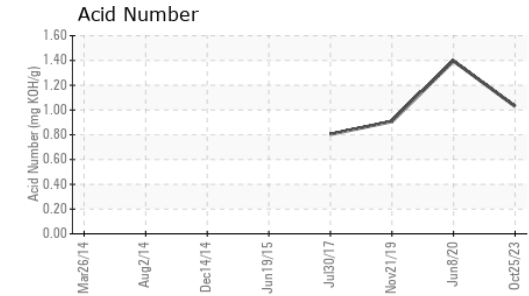
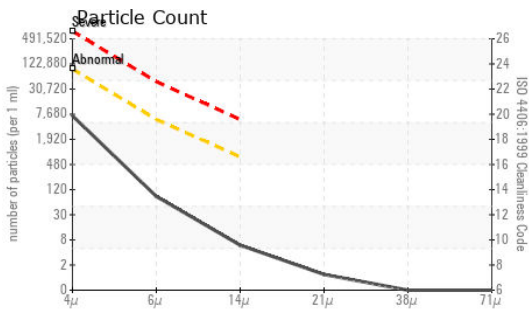
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the component.

Silicon	ppm	ASTM D5185m	>24	<b>8</b>	10	9
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	<1	1
Water		WC Method	>0.075	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>80000	<b>6142</b>	7574	19836
Particles >6µm		ASTM D7647	>5000	<b>73</b>	925	486
Particles >14µm		ASTM D7647	>640	<b>5</b>	29	53
Particles >21µm		ASTM D7647	>160	<b>1</b>	8	12
Particles >38µm		ASTM D7647	>40	<b>0</b>	0	0
Particles >71µm		ASTM D7647	>10	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>23/19/16	<b>20/13/10</b>	20/17/12	21/16/13
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>LIGHT</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

## FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m	>21	<b>6</b>	7	4
Boron	ppm	ASTM D5185m		<b>81</b>	88	73
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>8</b>	<1	<1
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>141</b>	28	22
Calcium	ppm	ASTM D5185m		<b>3310</b>	3405	3113
Phosphorus	ppm	ASTM D5185m		<b>1072</b>	1070	1019
Zinc	ppm	ASTM D5185m		<b>1318</b>	1353	1230
Sulfur	ppm	ASTM D5185m		<b>4343</b>	4111	5359
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>1.03</b>	1.396	0.908
Visc @ 40°C	cSt	ASTM D445		<b>46.7</b>	45.4	46.2



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0675145 **Received** : 17 Jan 2024  
**Lab Number** : 06062577 **Diagnosed** : 19 Jan 2024  
**Unique Number** : 10833959 **Diagnostician** : Jonathan Hester  
**Test Package** : CONST

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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)