



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

Area

**[RW BRITT]**

Machine Id

**JOHN DEERE 748L 1DW748LBKNF716214**

Component

**Hydraulic System**

Fluid

**JOHN DEERE HYDRAU (--- GAL)**

### RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0208926</b>	JR0164605	JR0165188
Sample Date		Client Info		<b>22 May 2024</b>	23 Jan 2024	27 Oct 2023
Machine Age	hrs	Client Info		<b>3358</b>	2628	2101
Oil Age	hrs	Client Info		<b>0</b>	2628	2101
Filter Age	hrs	Client Info		<b>0</b>	2628	2101
Oil Changed		Client Info		<b>N/A</b>	N/A	N/A
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>ATTENTION</b>	ATTENTION	ATTENTION

### WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		<b>16</b>	12	13
Iron	ppm	ASTM D5185m	>20	<b>15</b>	9	6
Chromium	ppm	ASTM D5185m	>10	<b>6</b>	5	3
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	<1
Lead	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	0
Copper	ppm	ASTM D5185m	>75	<b>&lt;1</b>	<1	2
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

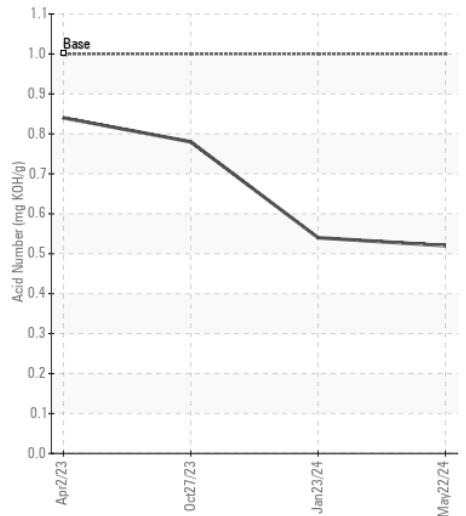
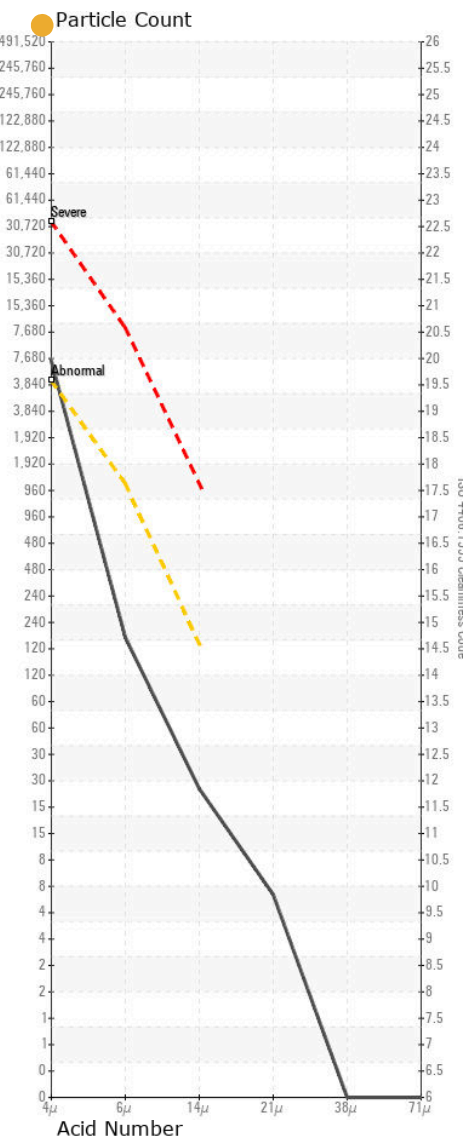
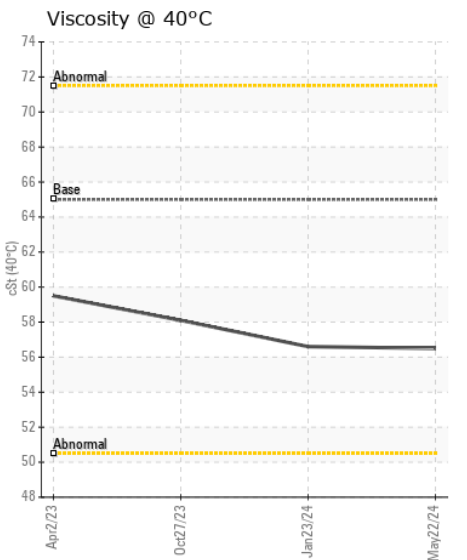
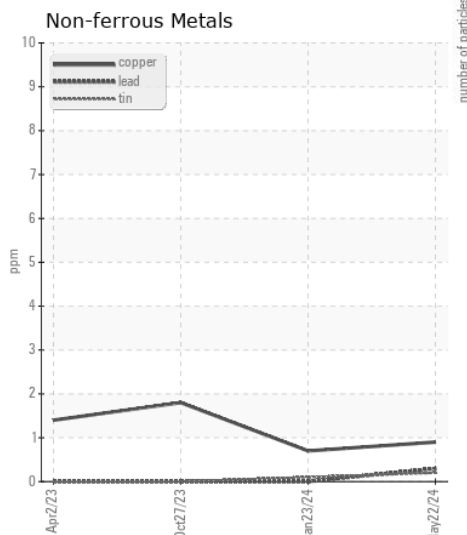
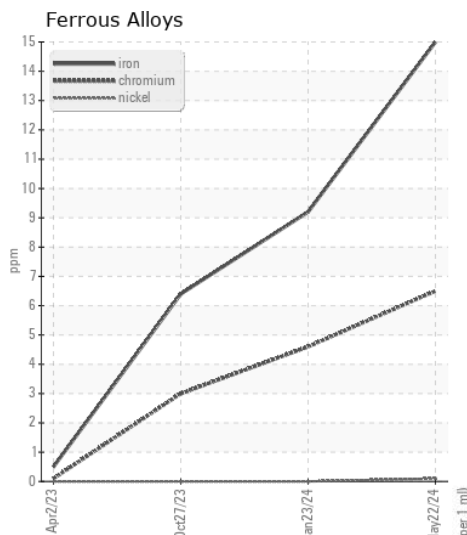
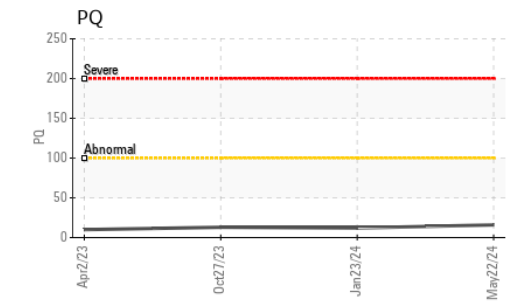
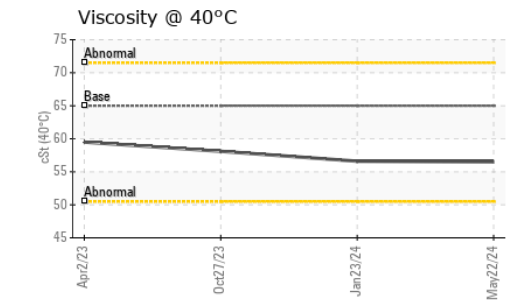
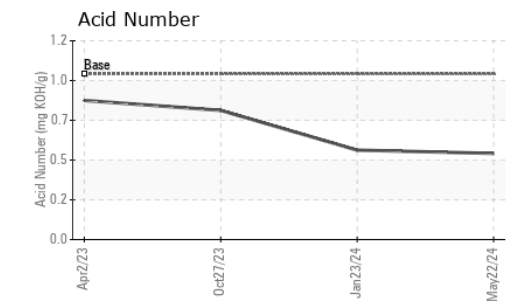
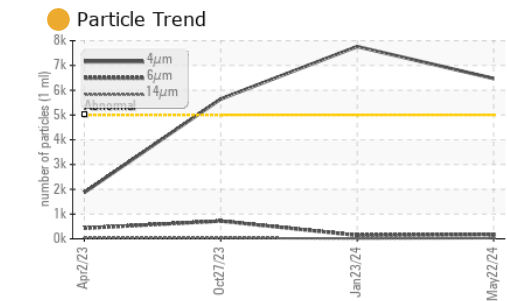
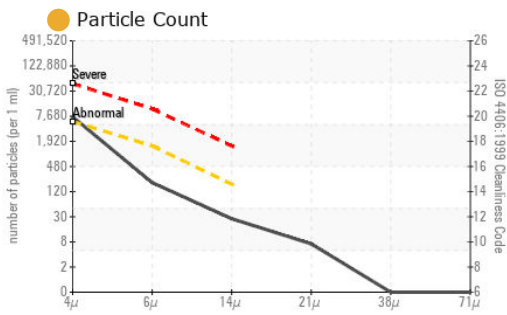
There is a light amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>20	<b>10</b>	8	8
Potassium	ppm	ASTM D5185m	>20	<b>6</b>	2	2
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>5000	<b>6473</b>	7764	5646
Particles >6µm		ASTM D7647	>1300	<b>174</b>	142	718
Particles >14µm		ASTM D7647	>160	<b>24</b>	11	33
Particles >21µm		ASTM D7647	>40	<b>6</b>	3	10
Particles >38µm		ASTM D7647	>10	<b>0</b>	0	1
Particles >71µm		ASTM D7647	>3	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>20/15/12</b>	20/14/11	20/17/12
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	>0.1	<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		<b>&lt;1</b>	2	<1
Boron	ppm	ASTM D5185m		<b>10</b>	5	2
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>6</b>	5	1
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>18</b>	13	9
Calcium	ppm	ASTM D5185m	87	<b>206</b>	217	117
Phosphorus	ppm	ASTM D5185m	727	<b>485</b>	519	552
Zinc	ppm	ASTM D5185m	900	<b>590</b>	575	711
Sulfur	ppm	ASTM D5185m	1500	<b>1894</b>	1654	1652
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	<b>0.52</b>	0.54	0.78
Visc @ 40°C	cSt	ASTM D445	65	<b>56.5</b>	56.6	58.1



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0208926 **Received** : 30 May 2024  
**Lab Number** : 06195307 **Tested** : 31 May 2024  
**Unique Number** : 11057430 **Diagnosed** : 31 May 2024 - Wes Davis  
**Test Package** : CONST ( Additional Tests: PQ )

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)

**JRE - GREENVILLE**  
 3604 HIGHWAY 264 E  
 GREENVILLE, NC  
 US 27834-5800

Contact: GREENVILLE SHOP  
 christopher.martin@jamesriverequipment.com

T:  
 F: