



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



Machine Id  
**John Deere 300D II 1DW300DXVEE662204**  
Component  
**Hydraulic System**  
Fluid  
**JOHN DEERE HYDRAU (20 GAL)**

### RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0216120</b>	JR0192735	LEC0007385
Sample Date		Client Info		<b>17 Jun 2024</b>	21 Nov 2023	26 Nov 2019
Machine Age	hrs	Client Info		<b>8471</b>	8471	5290
Oil Age	hrs	Client Info		<b>4978</b>	4978	5290
Filter Age	hrs	Client Info		<b>0</b>	0	1000
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Sample Status				<b>ABNORMAL</b>	ABNORMAL	NORMAL

### WEAR

The iron level is abnormal. All other component wear rates are normal.

Test	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184	>50	<b>26</b>	19	20
Iron	ppm	ASTM D5185m	>23	<b>▲ 34</b>	▲ 32	14
Chromium	ppm	ASTM D5185m	>9	<b>5</b>	5	2
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>9	<b>8</b>	7	2
Lead	ppm	ASTM D5185m	>28	<b>0</b>	0	<1
Copper	ppm	ASTM D5185m	>51	<b>8</b>	7	3
Tin	ppm	ASTM D5185m	>5	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	<1
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. The amount and size of particulates present in the system are acceptable.

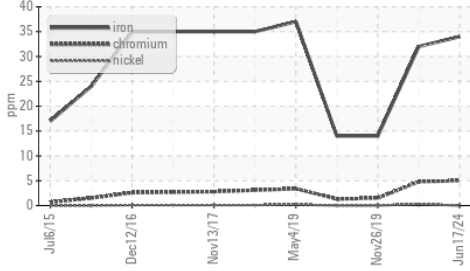
Silicon	ppm	ASTM D5185m	>31	<b>13</b>	15	16
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	2	3
Water		WC Method	>0.075	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>80000	<b>35096</b>	51291	20184
Particles >6µm		ASTM D7647	>20000	<b>1522</b>	3419	2562
Particles >14µm		ASTM D7647	>640	<b>26</b>	205	53
Particles >21µm		ASTM D7647	>160	<b>5</b>	69	27
Particles >38µm		ASTM D7647	>40	<b>0</b>	4	2
Particles >71µm		ASTM D7647	>10	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>23/21/16	<b>22/18/12</b>	23/19/15	22/19/13
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	>0.075	<b>NEG</b>	NEG	NEG

### FLUID CONDITION

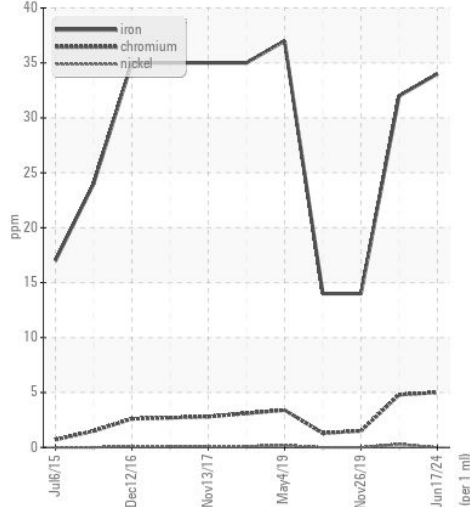
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m	>21	<b>0</b>	0	<1
Boron	ppm	ASTM D5185m		<b>&lt;1</b>	1	<1
Barium	ppm	ASTM D5185m		<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	3	<1
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>73</b>	84	92
Calcium	ppm	ASTM D5185m	87	<b>2778</b>	2851	3187
Phosphorus	ppm	ASTM D5185m	727	<b>908</b>	929	952
Zinc	ppm	ASTM D5185m	900	<b>1080</b>	1109	1136
Sulfur	ppm	ASTM D5185m	1500	<b>3112</b>	3504	2720
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	<b>1.12</b>	1.08	1.532
Visc @ 40°C	cSt	ASTM D445	65	<b>48.7</b>	48.7	47.8

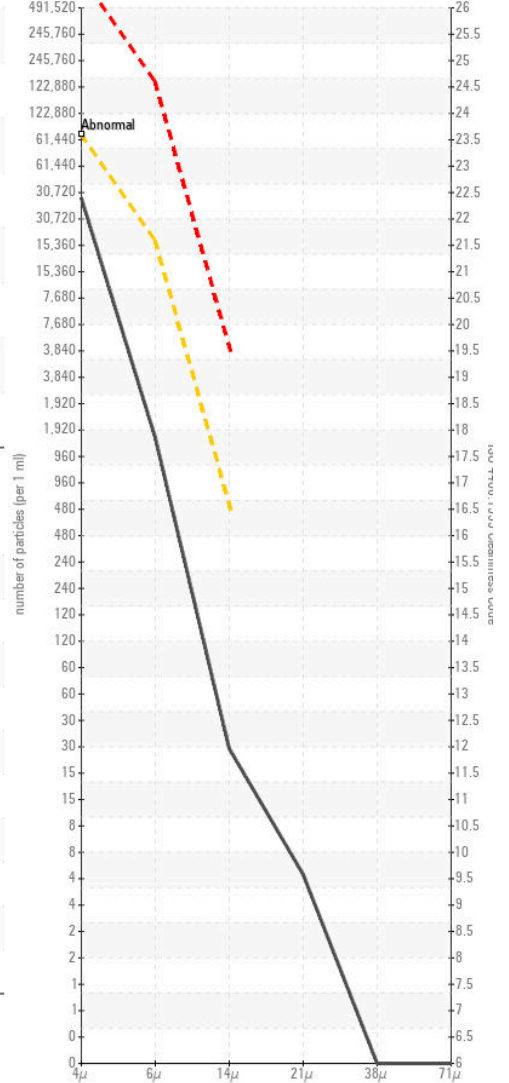
**▲ Ferrous Alloys**



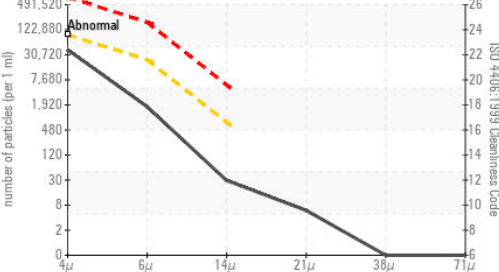
**▲ Ferrous Alloys**



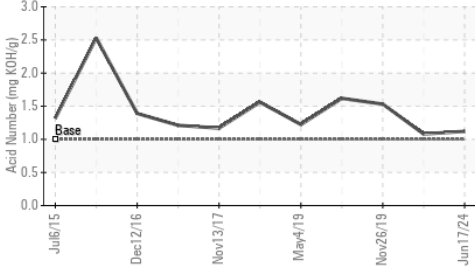
**▲ Particle Count**



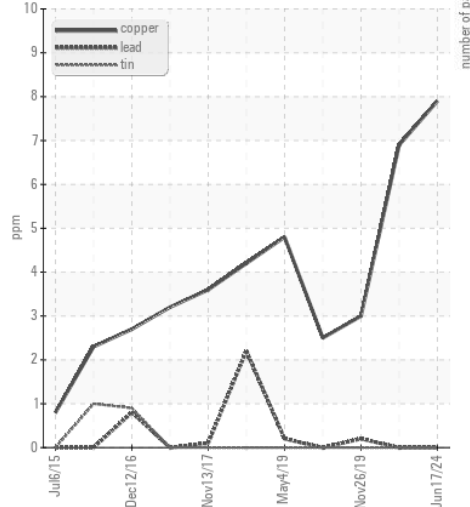
**▲ Particle Count**



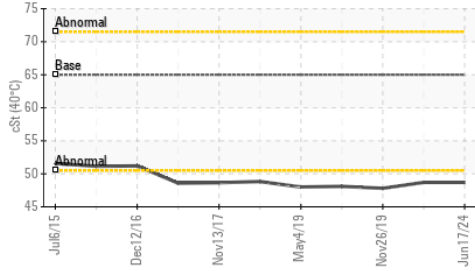
**▲ Acid Number**



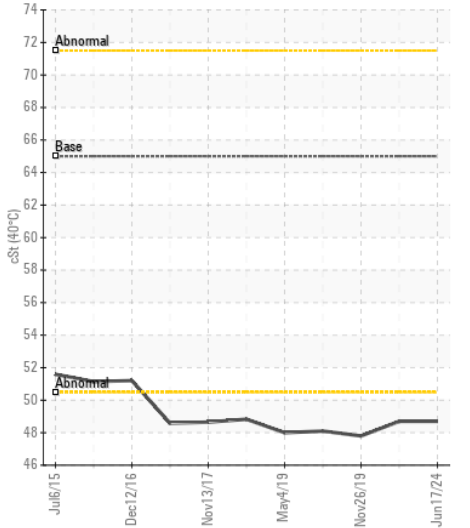
**▲ Non-ferrous Metals**



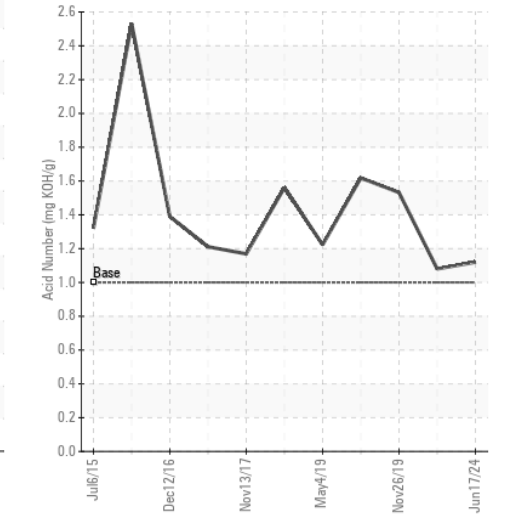
**▲ Viscosity @ 40°C**



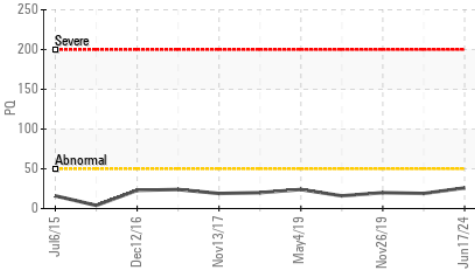
**▲ Viscosity @ 40°C**



**▲ Acid Number**



**▲ PQ**



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0216120 **Received** : 19 Jun 2024  
**Lab Number** : 06214558 **Tested** : 20 Jun 2024  
**Unique Number** : 11087422 **Diagnosed** : 21 Jun 2024 - Don Baldrige  
**Test Package** : CONST ( Additional Tests: PQ )

**JRE - CHARLOTTE**  
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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)