



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



Machine Id  
**JOHN DEERE 210G 1FF210GXVJF525584**  
Component  
**Hydraulic System**  
Fluid  
**AW HYDRAULIC OIL ISO 46 (--- GAL)**

### RECOMMENDATION

Recommend drain oil if not already done. Reduce drain interval to 2000 hours or drain and flush and use recommended zinc free oil.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0205048</b>	JR0194277	JR0174080
Sample Date		Client Info		<b>15 Apr 2024</b>	14 Dec 2023	25 Jun 2023
Machine Age	hrs	Client Info		<b>9470</b>	8963	8550
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>N/A</b>	N/A	N/A
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>ABNORMAL</b>	ABNORMAL	NORMAL

### WEAR

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

PQ		ASTM D8184	>50	<b>35</b>	32	11
Iron	ppm	ASTM D5185m	>32	<b>▲ 56</b>	▲ 42	25
Chromium	ppm	ASTM D5185m	>9	<b>6</b>	4	5
Nickel	ppm	ASTM D5185m	>5	<b>0</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	>9	<b>1</b>	1	3
Lead	ppm	ASTM D5185m	>28	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>50	<b>4</b>	3	5
Tin	ppm	ASTM D5185m	>5	<b>&lt;1</b>	<1	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

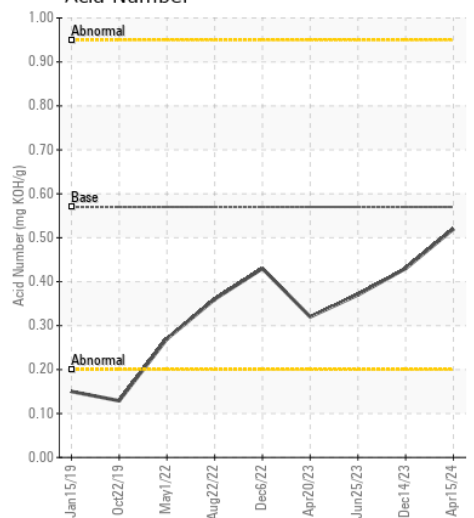
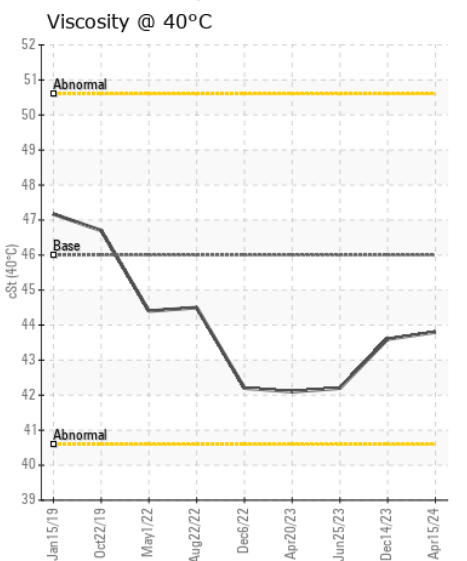
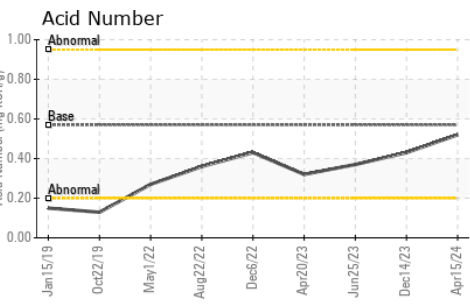
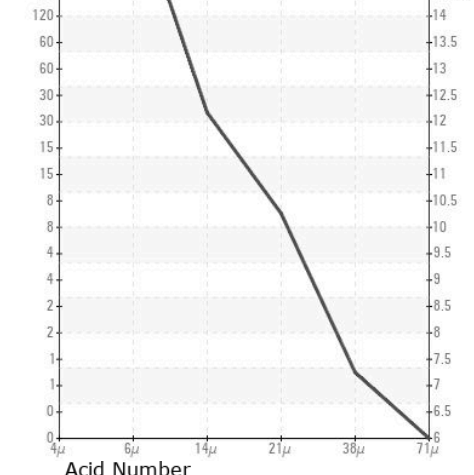
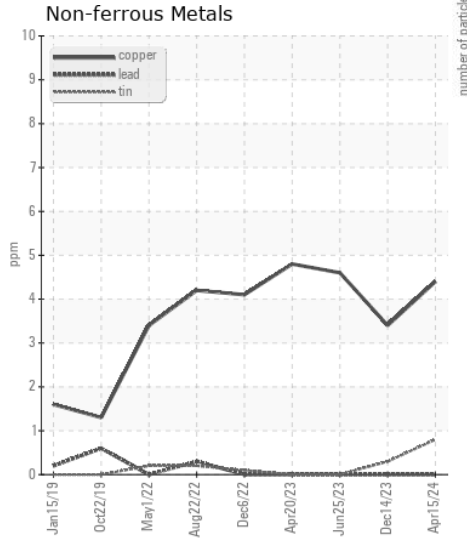
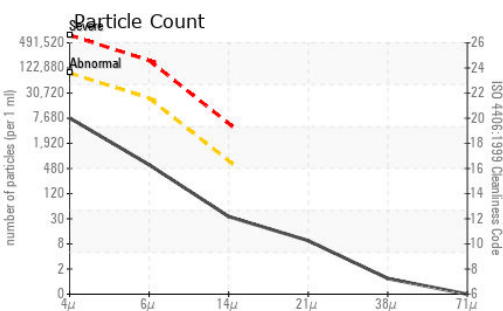
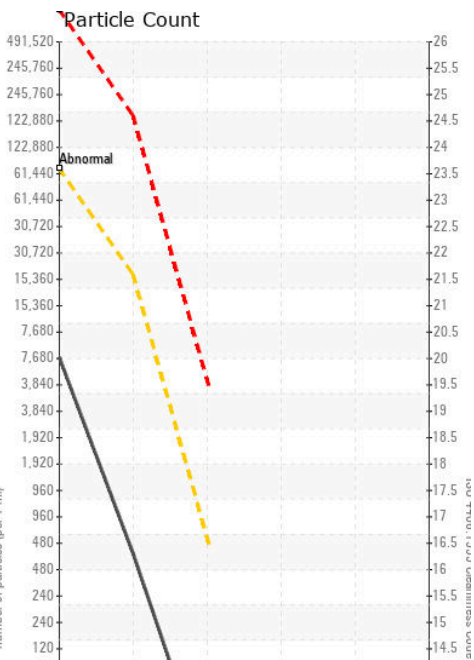
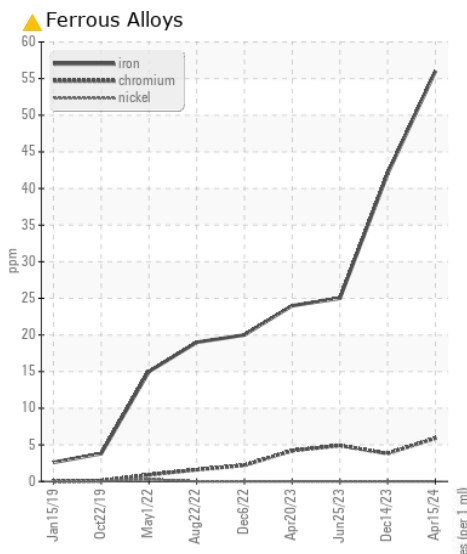
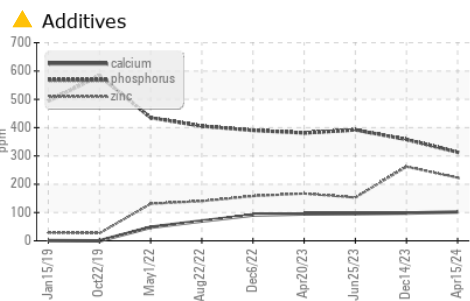
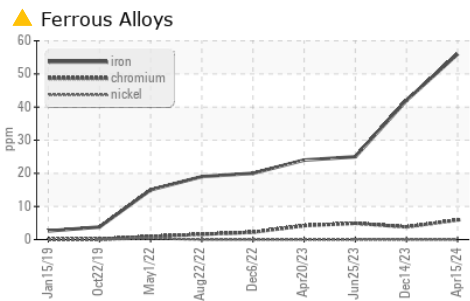
The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>11	<b>7</b>	7	10
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	6	5
Water		WC Method	>0.075	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>80000	<b>6785</b>	18557	3317
Particles >6µm		ASTM D7647	>20000	<b>518</b>	333	267
Particles >14µm		ASTM D7647	>640	<b>30</b>	12	18
Particles >21µm		ASTM D7647	>160	<b>8</b>	5	6
Particles >38µm		ASTM D7647	>40	<b>1</b>	0	0
Particles >71µm		ASTM D7647	>10	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>23/21/16	<b>20/16/12</b>	21/16/11	19/15/11
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	LIGHT
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

Zinc level above manufacturer's recommendations. The AN level is acceptable for this fluid.

Sodium	ppm	ASTM D5185m	>21	<b>5</b>	3	4
Boron	ppm	ASTM D5185m	5	<b>4</b>	4	4
Barium	ppm	ASTM D5185m	5	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	5	<b>8</b>	7	7
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	25	<b>18</b>	25	13
Calcium	ppm	ASTM D5185m	200	<b>102</b>	98	96
Phosphorus	ppm	ASTM D5185m	300	<b>313</b>	358	392
Zinc	ppm	ASTM D5185m	370	<b>▲ 223</b>	▲ 262	153
Sulfur	ppm	ASTM D5185m	2500	<b>1108</b>	1033	1183
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	<b>0.52</b>	0.43	0.37
Visc @ 40°C	cSt	ASTM D445	46	<b>43.8</b>	43.6	42.2



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0205048 **Received** : 16 Apr 2024  
**Lab Number** : 06150207 **Tested** : 17 Apr 2024  
**Unique Number** : 10980285 **Diagnosed** : 18 Apr 2024 - Don Baldrige  
**Test Package** : CONST ( Additional Tests: PQ )

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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)