



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



Machine Id  
**JOHN DEERE 410E 1DW410EBTMF708636**  
Component  
**Hydraulic System**  
Fluid  
**JOHN DEERE HYDRAU (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0205465</b>	JR0188677	JR0170890
Sample Date		Client Info		<b>22 Apr 2024</b>	01 Nov 2023	27 Jun 2023
Machine Age	hrs	Client Info		<b>4644</b>	4077	3502
Oil Age	hrs	Client Info		<b>567</b>	2075	3502
Filter Age	hrs	Client Info		<b>0</b>	0	3502
Oil Changed		Client Info		<b>Not Chngd</b>	Changed	Not Chngd
Filter Changed		Client Info		<b>Not Chngd</b>	Changed	Not Chngd
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

PQ		ASTM D8184	>50	<b>21</b>	13	15
Iron	ppm	ASTM D5185m	>71	<b>&lt;1</b>	12	0
Chromium	ppm	ASTM D5185m	>11	<b>&lt;1</b>	<1	0
Nickel	ppm	ASTM D5185m	>6	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>11	<b>2</b>	2	<1
Lead	ppm	ASTM D5185m	>13	<b>0</b>	<1	0
Copper	ppm	ASTM D5185m	>21	<b>&lt;1</b>	<1	0
Tin	ppm	ASTM D5185m	>5	<b>&lt;1</b>	<1	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

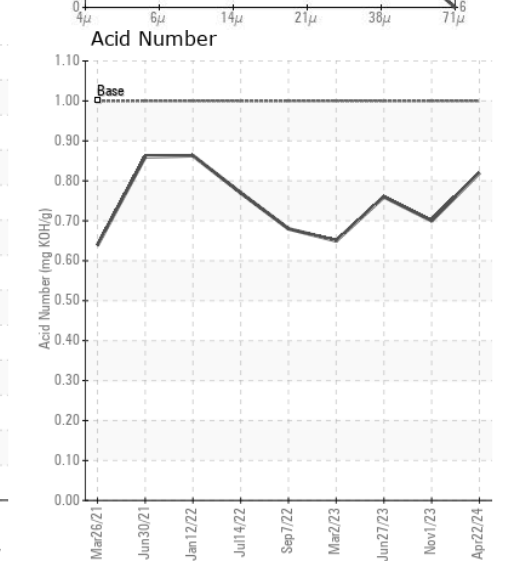
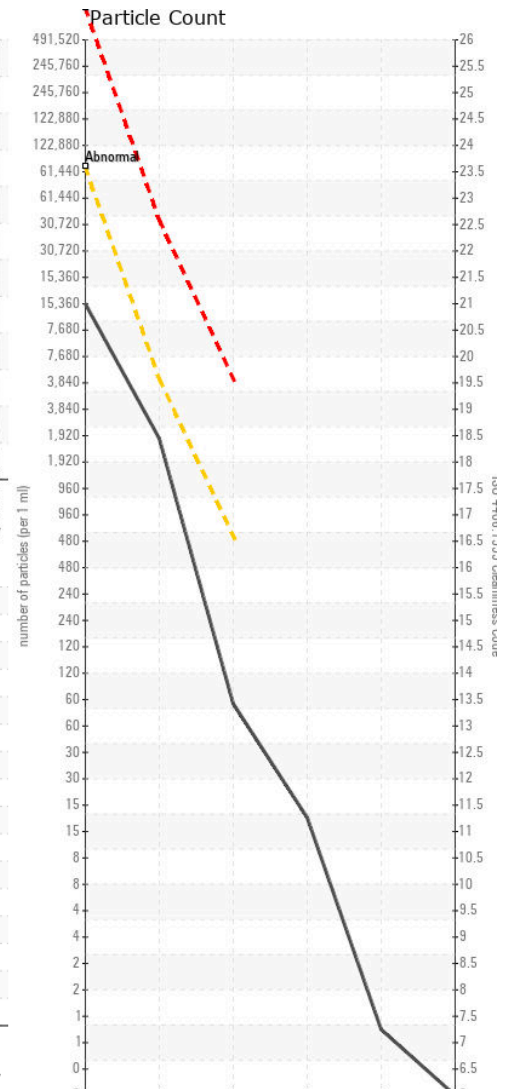
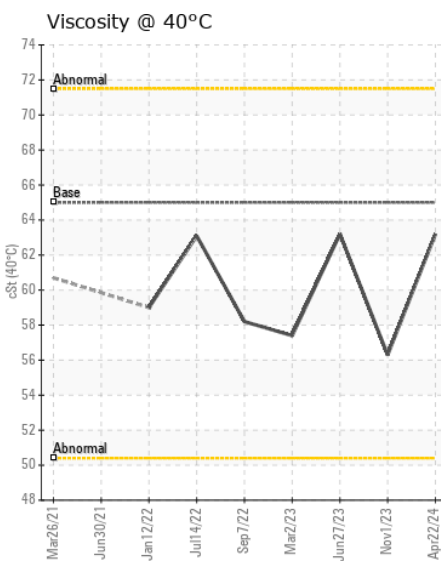
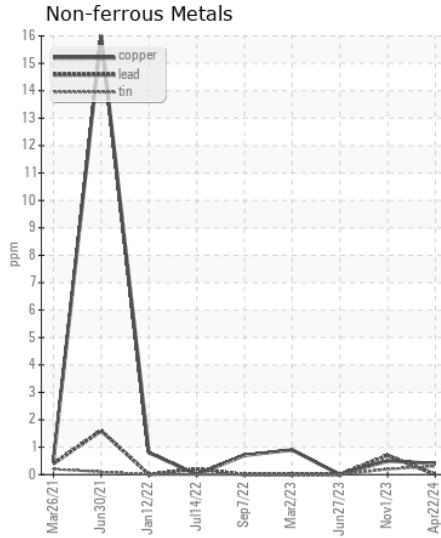
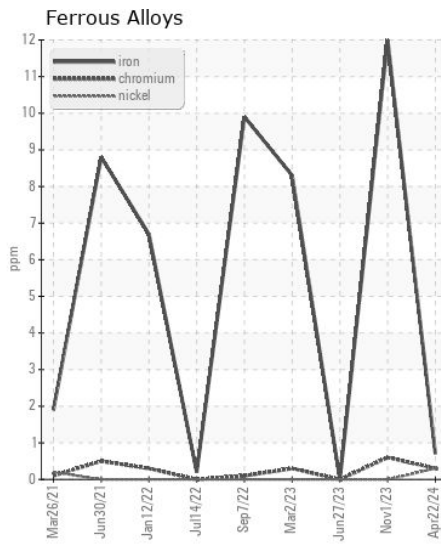
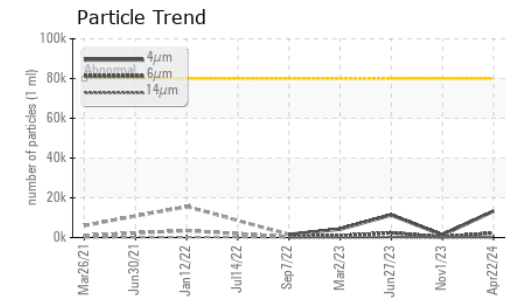
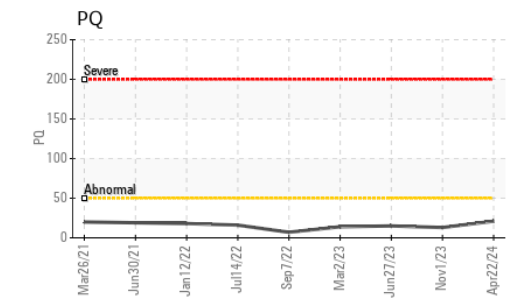
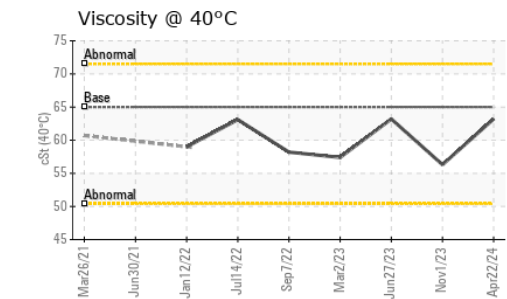
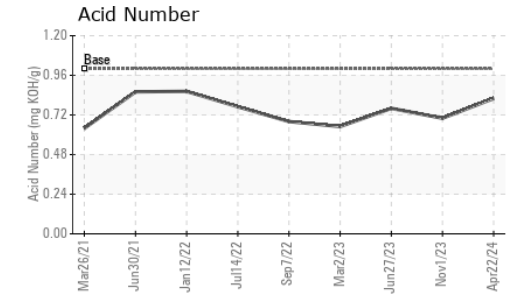
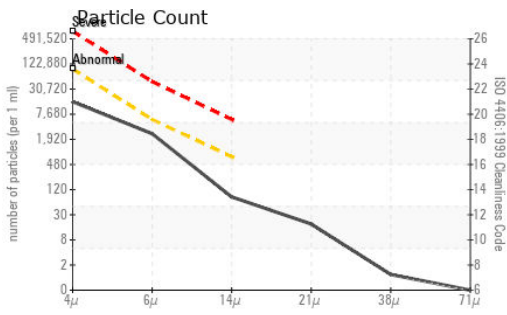
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>24	<b>1</b>	3	0
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	1
Water		WC Method	>0.075	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>80000	<b>13315</b>	1258	11368
Particles >6µm		ASTM D7647	>5000	<b>2284</b>	289	2403
Particles >14µm		ASTM D7647	>640	<b>71</b>	28	143
Particles >21µm		ASTM D7647	>160	<b>16</b>	7	33
Particles >38µm		ASTM D7647	>40	<b>1</b>	0	3
Particles >71µm		ASTM D7647	>10	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>23/19/16	<b>21/18/13</b>	17/15/12	21/18/14
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>&lt;1</b>	1	<1
Boron	ppm	ASTM D5185m		<b>&lt;1</b>	0	7
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>2</b>	0	7
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	0
Magnesium	ppm	ASTM D5185m		<b>7</b>	4	28
Calcium	ppm	ASTM D5185m	87	<b>135</b>	81	132
Phosphorus	ppm	ASTM D5185m	727	<b>1012</b>	618	644
Zinc	ppm	ASTM D5185m	900	<b>1274</b>	775	862
Sulfur	ppm	ASTM D5185m	1500	<b>2675</b>	1519	1942
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	<b>0.82</b>	0.70	0.76
Visc @ 40°C	cSt	ASTM D445	65	<b>63.2</b>	56.3	63.2



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0205465 **Received** : 23 Apr 2024  
**Lab Number** : 06157522 **Tested** : 24 Apr 2024  
**Unique Number** : 10992945 **Diagnosed** : 25 Apr 2024 - Jonathan Hester  
**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)