



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



Area  
**[W66220]**  
 Machine Id  
**JOHN DEERE 410E 1DW410EBCNF716050**  
 Component  
**Hydraulic System**  
 Fluid  
**JOHN DEERE HYDRAU (20 GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor. ( Customer Sample Comment: W66220 )

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0206685</b>	JR0192684	JR0188725
Sample Date		Client Info		<b>16 Apr 2024</b>	19 Dec 2023	18 Sep 2023
Machine Age	hrs	Client Info		<b>2510</b>	2017	1505
Oil Age	hrs	Client Info		<b>493</b>	2017	1505
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Chngd</b>	Not Chngd	Not Chngd
Filter Changed		Client Info		<b>Not Chngd</b>	Not Chngd	Not Chngd
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

PQ		ASTM D8184	>50	<b>15</b>	13	11
Iron	ppm	ASTM D5185m	>71	<b>2</b>	<1	3
Chromium	ppm	ASTM D5185m	>11	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>6	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>11	<b>&lt;1</b>	3	<1
Lead	ppm	ASTM D5185m	>13	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>21	<b>2</b>	<1	1
Tin	ppm	ASTM D5185m	>5	<b>&lt;1</b>	0	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

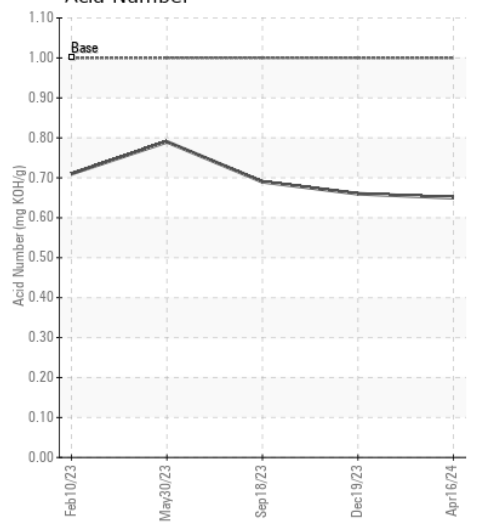
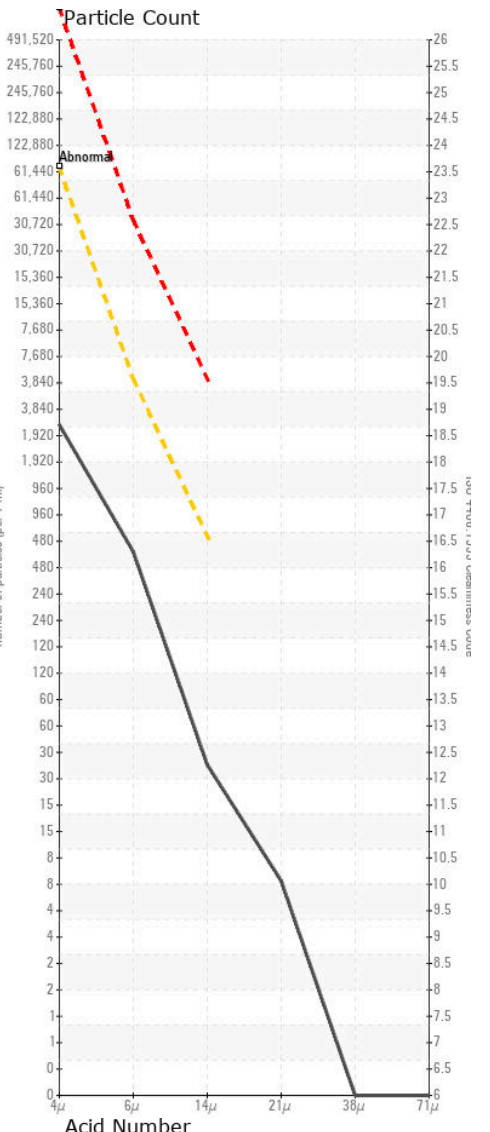
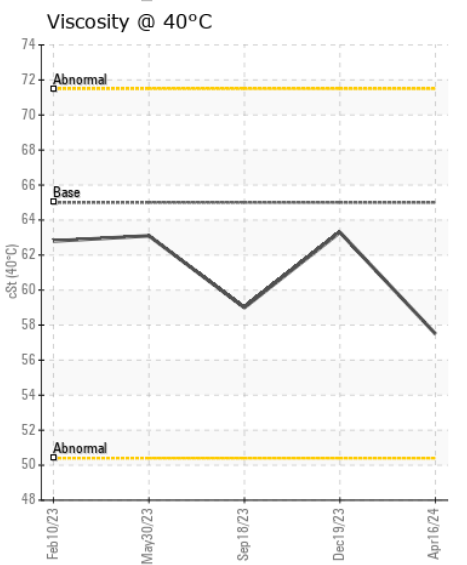
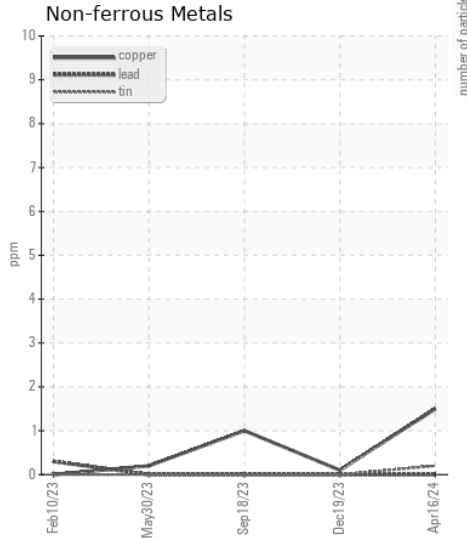
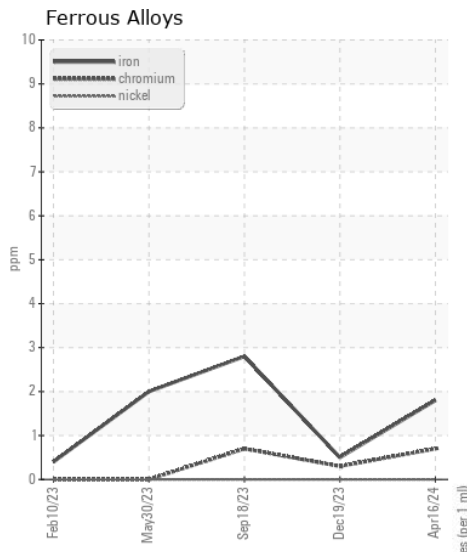
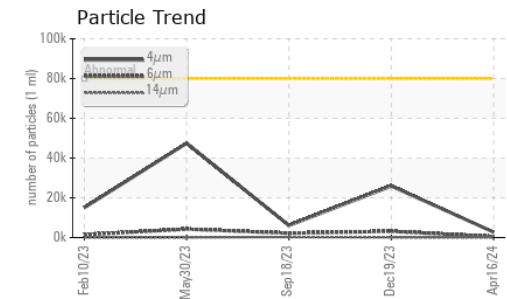
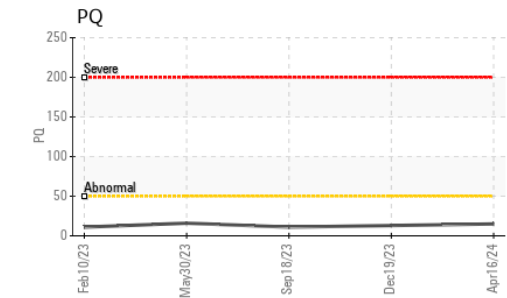
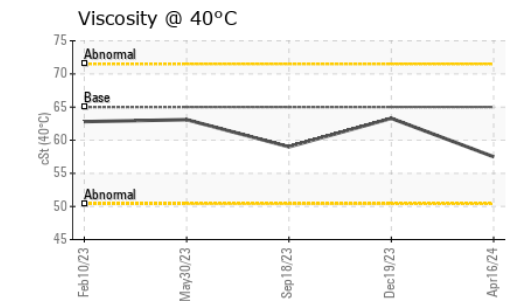
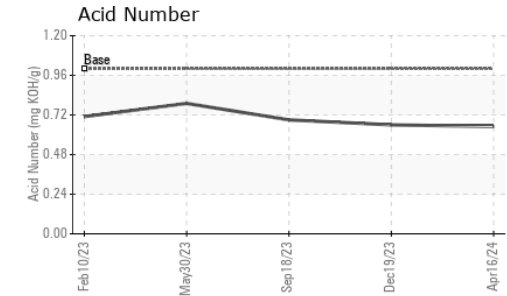
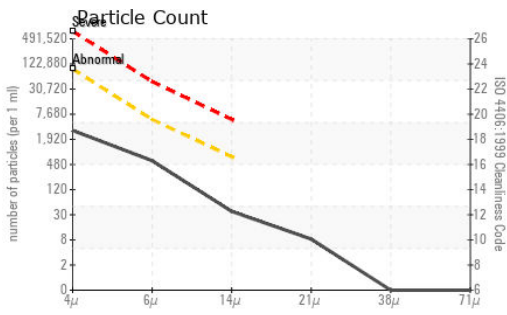
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Silicon	ppm	ASTM D5185m	>24	<b>1</b>	<1	1
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	<1	3
Water		WC Method	>0.075	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>80000	<b>2741</b>	25944	6088
Particles >6µm		ASTM D7647	>5000	<b>520</b>	3137	2183
Particles >14µm		ASTM D7647	>640	<b>32</b>	38	246
Particles >21µm		ASTM D7647	>160	<b>7</b>	5	61
Particles >38µm		ASTM D7647	>40	<b>0</b>	0	1
Particles >71µm		ASTM D7647	>10	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>23/19/16	<b>19/16/12</b>	22/19/12	20/18/15
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>4</b>	0	<1
Boron	ppm	ASTM D5185m		<b>0</b>	3	<1
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>0</b>	4	1
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Magnesium	ppm	ASTM D5185m		<b>0</b>	14	5
Calcium	ppm	ASTM D5185m	87	<b>83</b>	112	95
Phosphorus	ppm	ASTM D5185m	727	<b>689</b>	674	641
Zinc	ppm	ASTM D5185m	900	<b>836</b>	857	857
Sulfur	ppm	ASTM D5185m	1500	<b>1984</b>	1708	1810
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	<b>0.65</b>	0.66	0.69
Visc @ 40°C	cSt	ASTM D445	65	<b>57.5</b>	63.3	59.0



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0206685 **Received** : 18 Apr 2024  
**Lab Number** : 06152970 **Tested** : 22 Apr 2024  
**Unique Number** : 10983048 **Diagnosed** : 22 Apr 2024 - Don Baldrige  
**Test Package** : CONST ( Additional Tests: PQ, PrtCount )

**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)