



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

Machine Id  
**JOHN DEERE 410E 1DW410EBCNF716033**

Component  
**Hydraulic System**

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

### RECOMMENDATION

We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0220013</b>	JR0193422	JR0170795
Sample Date		Client Info		<b>26 Jun 2024</b>	27 Nov 2023	14 Jul 2023
Machine Age	hrs	Client Info		<b>2520</b>	1651	1000
Oil Age	hrs	Client Info		<b>2520</b>	1651	1000
Filter Age	hrs	Client Info		<b>0</b>	1651	1000
Oil Changed		Client Info		<b>Not Chngd</b>	Not Chngd	Not Chngd
Filter Changed		Client Info		<b>Not Chngd</b>	Changed	Not Chngd
Sample Status				<b>ABNORMAL</b>	NORMAL	SEVERE

### WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		<b>16</b>	18	11
Iron	ppm	ASTM D5185m	>20	<b>0</b>	1	2
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	<1	0
Nickel	ppm	ASTM D5185m	>10	<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	>10	<b>&lt;1</b>	1	1
Lead	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	0
Copper	ppm	ASTM D5185m	>75	<b>0</b>	<1	0
Tin	ppm	ASTM D5185m	>10	<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

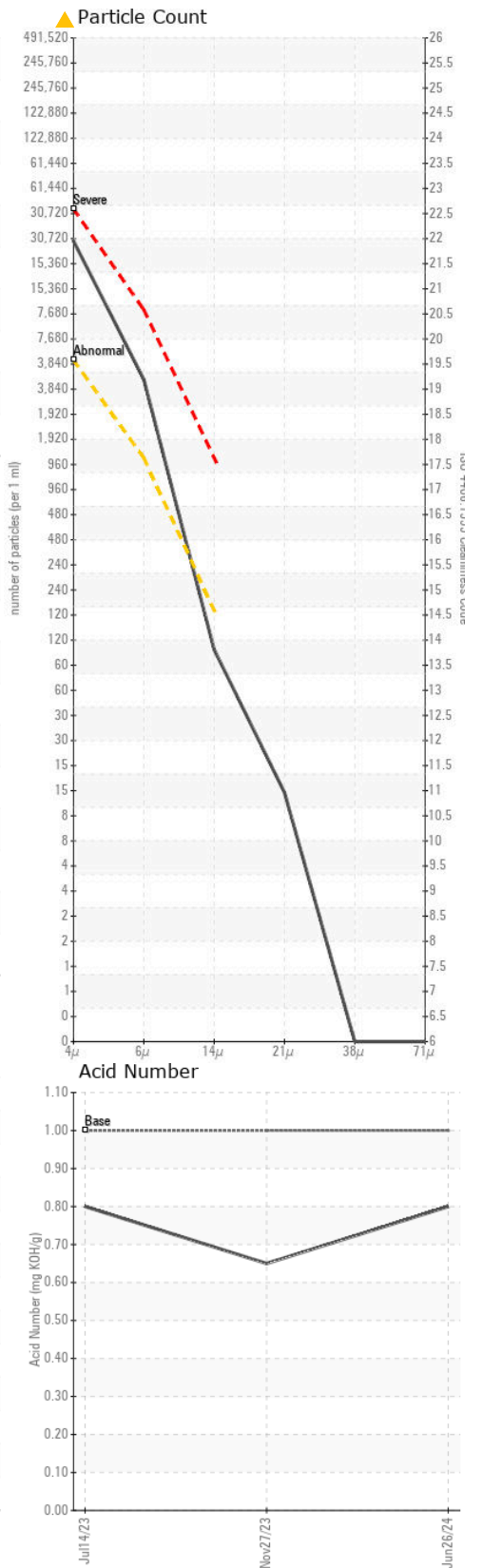
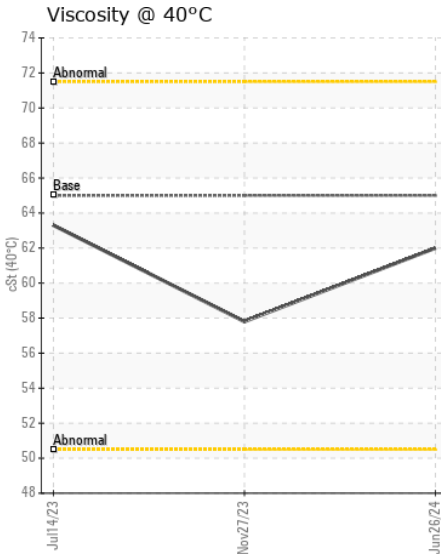
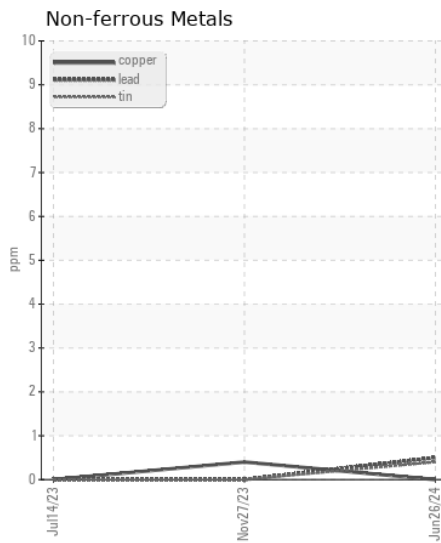
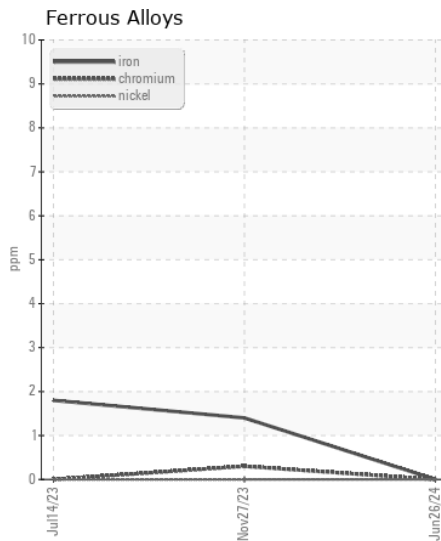
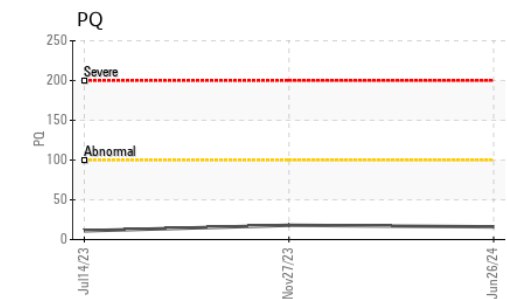
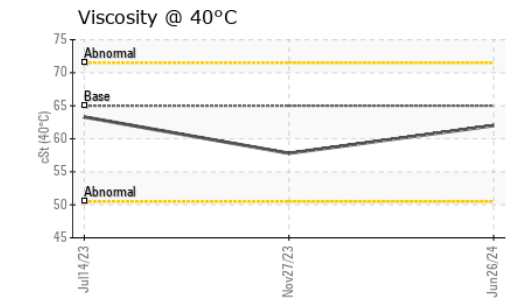
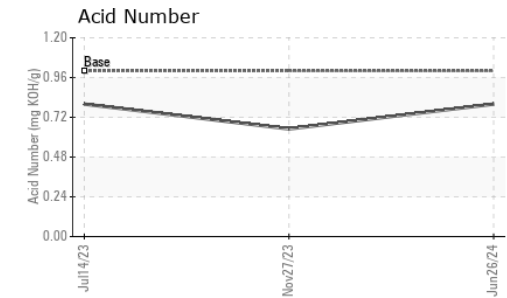
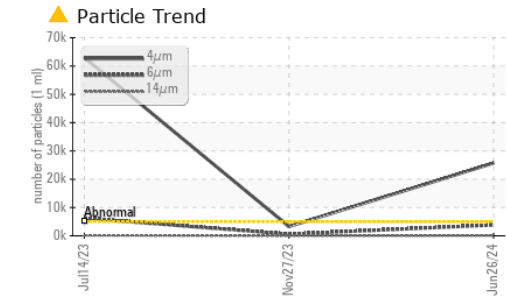
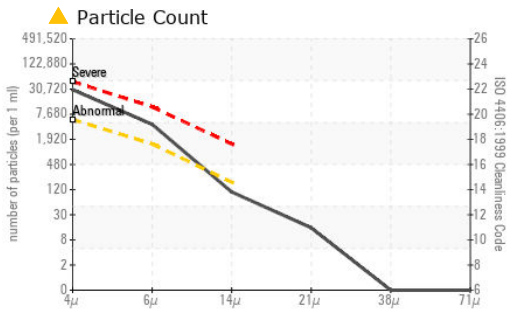
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>20	<b>&lt;1</b>	2	<1
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	3	<1
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>5000	<b>▲ 25736</b>	3284	▲ 62971
Particles >6µm		ASTM D7647	>1300	<b>▲ 3830</b>	594	▲ 6230
Particles >14µm		ASTM D7647	>160	<b>93</b>	38	● 172
Particles >21µm		ASTM D7647	>40	<b>13</b>	11	31
Particles >38µm		ASTM D7647	>10	<b>0</b>	1	1
Particles >71µm		ASTM D7647	>3	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>▲ 22/19/14</b>	19/16/12	▲ 23/20/15
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	>0.1	<b>NEG</b>	NEG	NEG

### FLUID CONDITION

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Sodium	ppm	ASTM D5185m		<b>0</b>	2	0
Boron	ppm	ASTM D5185m		<b>0</b>	0	7
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>0</b>	0	8
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Magnesium	ppm	ASTM D5185m		<b>0</b>	3	22
Calcium	ppm	ASTM D5185m	87	<b>90</b>	87	128
Phosphorus	ppm	ASTM D5185m	727	<b>726</b>	644	650
Zinc	ppm	ASTM D5185m	900	<b>925</b>	860	846
Sulfur	ppm	ASTM D5185m	1500	<b>1967</b>	1665	1761
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	<b>0.80</b>	0.65	0.80
Visc @ 40°C	cSt	ASTM D445	65	<b>62.0</b>	57.8	63.3



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0220013 **Received** : 01 Jul 2024  
**Lab Number** : 06224462 **Tested** : 02 Jul 2024  
**Unique Number** : 11102659 **Diagnosed** : 02 Jul 2024 - Wes Davis  
**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)