



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



Machine Id  
**JOHN DEERE 410E 1DW410EBAMF709486**

Component  
**Hydraulic System**

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

### RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0193173</b>	JR0178357	JR0161426
Sample Date		Client Info		<b>02 Jan 2024</b>	23 Aug 2023	11 May 2023
Machine Age	hrs	Client Info		<b>10661</b>	4031	3448
Oil Age	hrs	Client Info		<b>6630</b>	2031	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Chngd</b>	Changed	N/A
Filter Changed		Client Info		<b>Not Chngd</b>	Changed	N/A
Sample Status				<b>ATTENTION</b>	NORMAL	ATTENTION

### WEAR

All component wear rates are normal.

PQ		ASTM D8184	>50	<b>14</b>	13	12
Iron	ppm	ASTM D5185m	>71	<b>19</b>	10	1
Chromium	ppm	ASTM D5185m	>11	<b>2</b>	1	0
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>4</b>	4	0
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>0</b>	<1	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

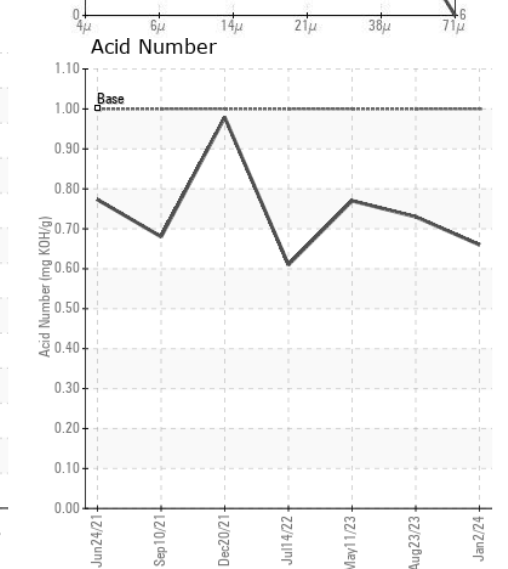
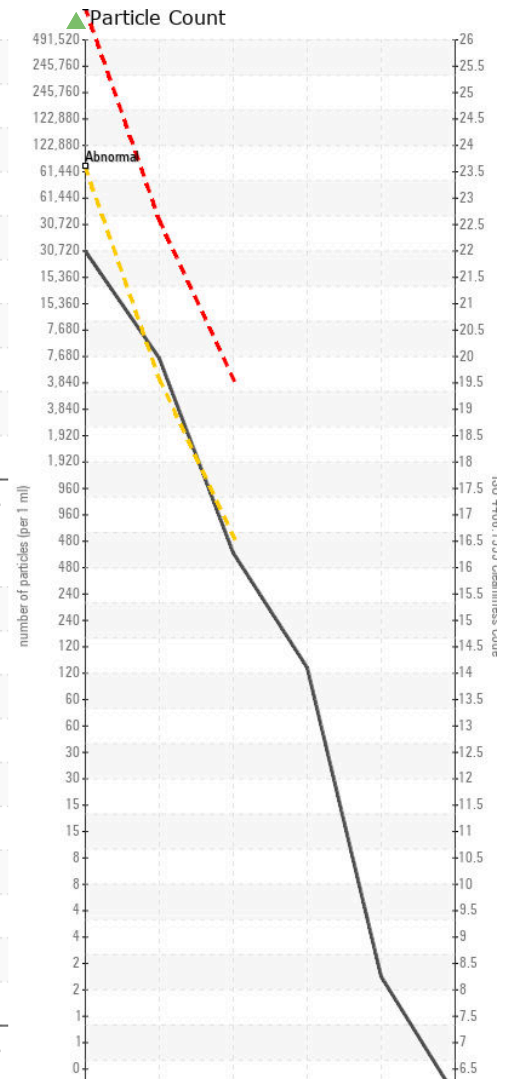
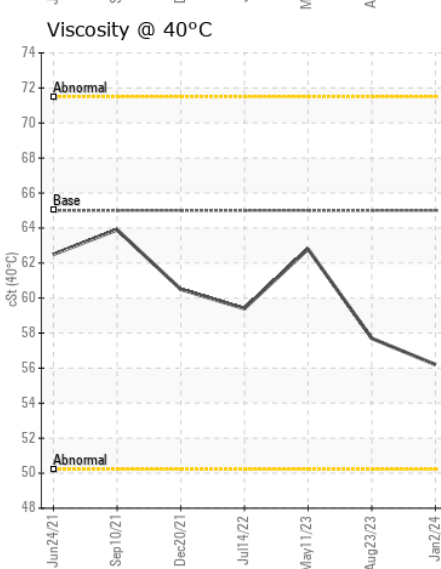
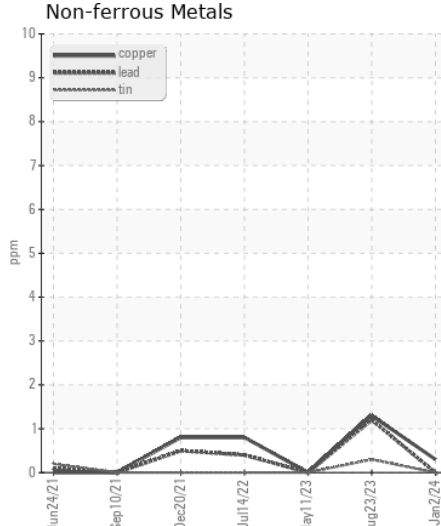
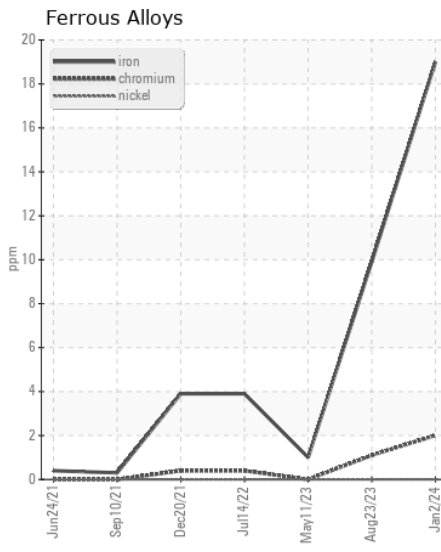
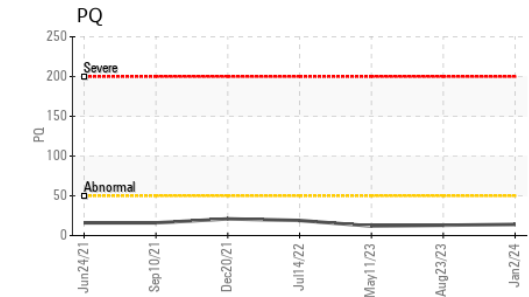
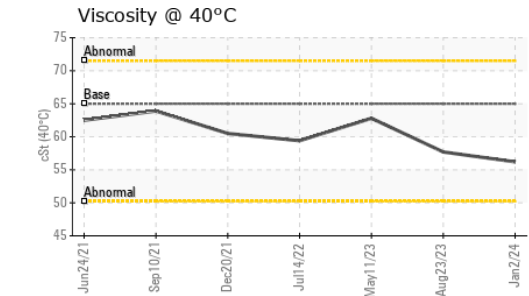
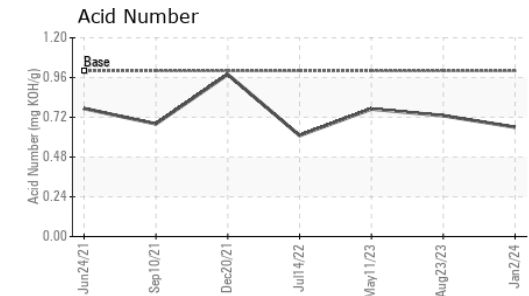
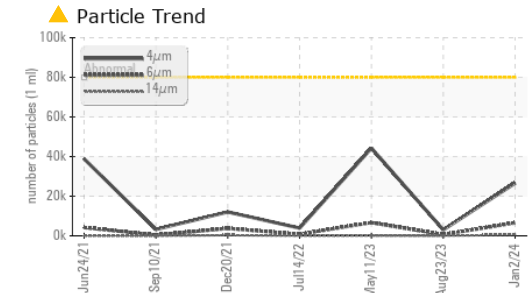
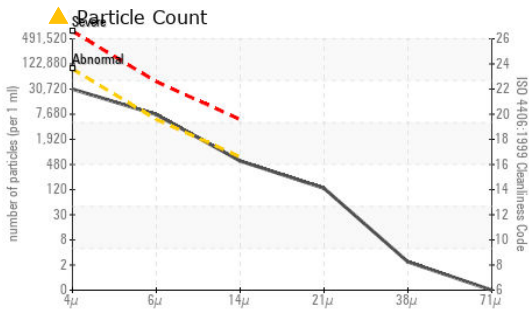
There is a light amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>24	<b>6</b>	4	<1
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	6	1
Water		WC Method	>0.075	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>80000	<b>26582</b>	3018	44263
Particles >6µm		ASTM D7647	>5000	<b>▲ 6542</b>	637	▲ 6669
Particles >14µm		ASTM D7647	>640	<b>512</b>	40	121
Particles >21µm		ASTM D7647	>160	<b>114</b>	14	10
Particles >38µm		ASTM D7647	>40	<b>2</b>	3	0
Particles >71µm		ASTM D7647	>10	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>23/19/16	<b>▲ 22/20/16</b>	19/16/12	▲ 23/20/14
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	LIGHT	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>2</b>	3	0
Boron	ppm	ASTM D5185m		<b>0</b>	2	6
Barium	ppm	ASTM D5185m		<b>0</b>	0	2
Molybdenum	ppm	ASTM D5185m		<b>0</b>	2	6
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	0
Magnesium	ppm	ASTM D5185m		<b>&lt;1</b>	12	20
Calcium	ppm	ASTM D5185m	87	<b>81</b>	94	125
Phosphorus	ppm	ASTM D5185m	727	<b>632</b>	617	647
Zinc	ppm	ASTM D5185m	900	<b>784</b>	815	858
Sulfur	ppm	ASTM D5185m	1500	<b>1570</b>	1936	1764
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	<b>0.66</b>	0.73	0.77
Visc @ 40°C	cSt	ASTM D445	65	<b>56.2</b>	57.7	62.8



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0193173 **Received** : 12 Jan 2024  
**Lab Number** : 06059214 **Diagnosed** : 15 Jan 2024  
**Unique Number** : 10830596 **Diagnostician** : 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)