



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



Area  
**[W64407]**  
 Machine Id  
**JOHN DEERE 410E-II 1DW410EBCNF713870**  
 Component  
**Rear Differential**  
 Fluid  
**JOHN DEERE HY-GARD HYD/TRANS (10 GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor. ( Customer Sample Comment: W64407 )

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0192746</b>	JR0177341	JR0142048
Sample Date		Client Info		<b>21 Feb 2024</b>	28 Aug 2023	30 Mar 2023
Machine Age	hrs	Client Info		<b>2529</b>	1984	1432
Oil Age	hrs	Client Info		<b>1984</b>	1035	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Changed</b>	Changed	N/A
Filter Changed		Client Info		<b>Not Changed</b>	Changed	N/A
Sample Status				<b>ATTENTION</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

PQ		ASTM D8184		<b>25</b>	16	7
Iron	ppm	ASTM D5185m	>500	<b>18</b>	33	14
Chromium	ppm	ASTM D5185m	>10	<b>2</b>	0	0
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>2</b>	5	1
Lead	ppm	ASTM D5185m	>25	<b>&lt;1</b>	14	<1
Copper	ppm	ASTM D5185m	>100	<b>5</b>	11	0
Tin	ppm	ASTM D5185m	>10	<b>0</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

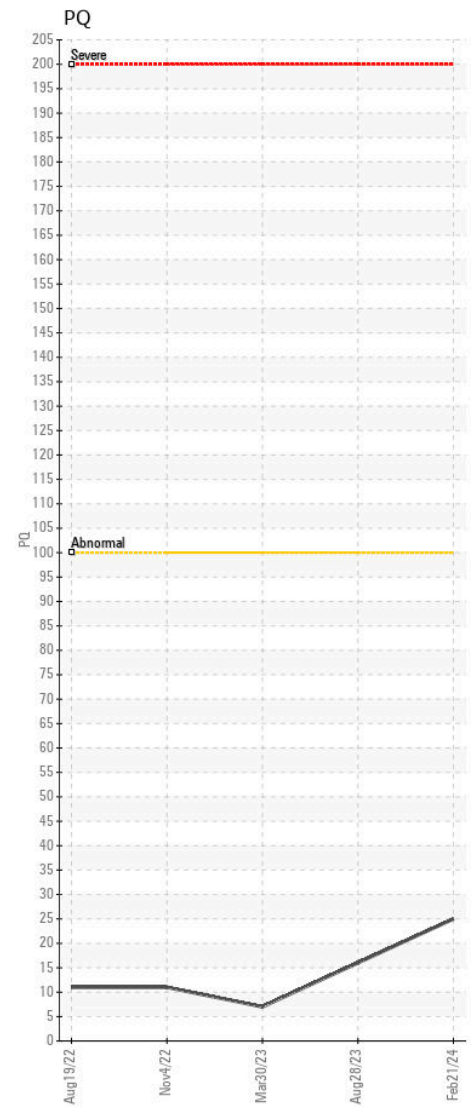
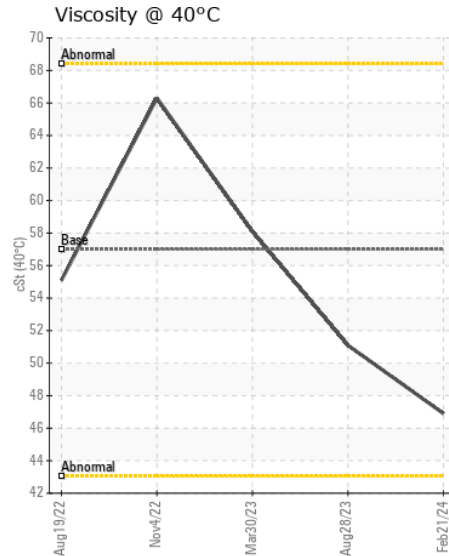
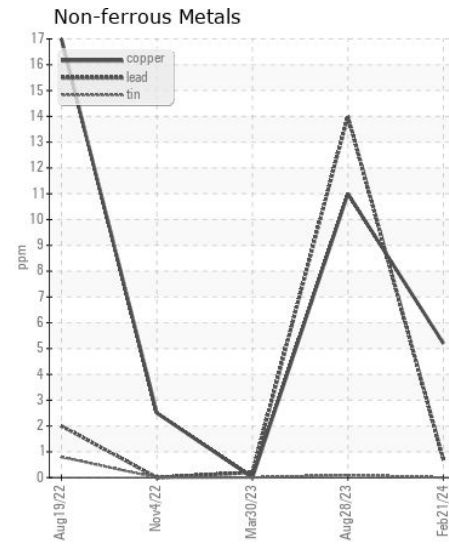
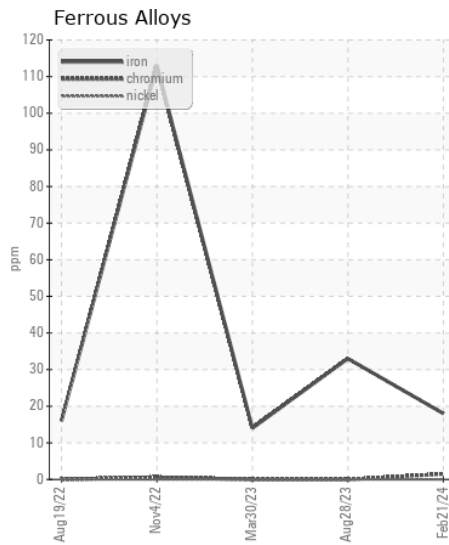
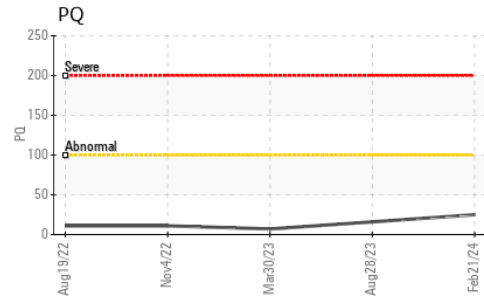
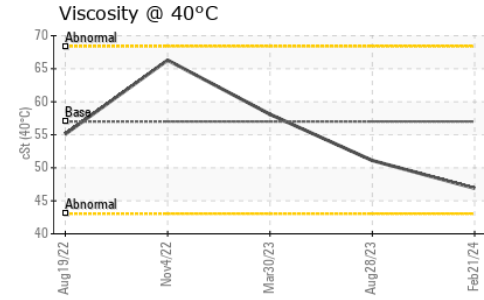
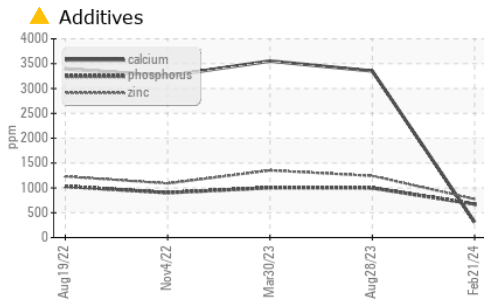
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	<b>2</b>	5	14
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	1	0
Water		WC Method	>.2	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</b>	LIGHT	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	>.2	<b>NEG</b>	NEG	NEG

### FLUID CONDITION

Additive levels indicate the addition of a different brand, or type of oil. Confirm oil type.

Sodium	ppm	ASTM D5185m		<b>0</b>	4	<1
Boron	ppm	ASTM D5185m	6	<b>2</b>	0	2
Barium	ppm	ASTM D5185m	0	<b>14</b>	0	0
Molybdenum	ppm	ASTM D5185m	0	<b>2</b>	0	<1
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	145	<b>▲ 12</b>	96	109
Calcium	ppm	ASTM D5185m	3570	<b>▲ 312</b>	3352	3553
Phosphorus	ppm	ASTM D5185m	1290	<b>▲ 672</b>	1000	1003
Zinc	ppm	ASTM D5185m	1640	<b>▲ 774</b>	1241	1352
Sulfur	ppm	ASTM D5185m		<b>▲ 1900</b>	4202	4111
Visc @ 40°C	cSt	ASTM D445	57.0	<b>46.9</b>	51.1	58.1



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0192746 **Received** : 23 Feb 2024  
**Lab Number** : 06099352 **Tested** : 26 Feb 2024  
**Unique Number** : 10897582 **Diagnosed** : 27 Feb 2024 - Don Baldrige  
**Test Package** : CONST ( Additional Tests: PQ )

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)

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