



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



Machine Id  
**JOHN DEERE 410E-II 5465 (S/N 1DW410EBEMF709413)**  
 Component  
**Rear Axle**  
 Fluid  
**JOHN DEERE HY-GARD HYD/TRANS (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0219821</b>	JR0192715	JR0178646
Sample Date		Client Info		<b>07 Jul 2024</b>	29 Nov 2023	17 Aug 2023
Machine Age	hrs	Client Info		<b>4853</b>	4202	3625
Oil Age	hrs	Client Info		<b>651</b>	1000	3625
Filter Age	hrs	Client Info		<b>0</b>	1000	0
Oil Changed		Client Info		<b>N/A</b>	Changed	Not Changd
Filter Changed		Client Info		<b>N/A</b>	Changed	Not Changd
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

PQ		ASTM D8184		<b>18</b>	17	14
Iron	ppm	ASTM D5185m	>1501	<b>15</b>	17	35
Chromium	ppm	ASTM D5185m	>11	<b>0</b>	0	<1
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>21	<b>2</b>	2	2
Lead	ppm	ASTM D5185m	>51	<b>0</b>	<1	2
Copper	ppm	ASTM D5185m	>101	<b>0</b>	4	23
Tin	ppm	ASTM D5185m	>10	<b>0</b>	<1	2
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

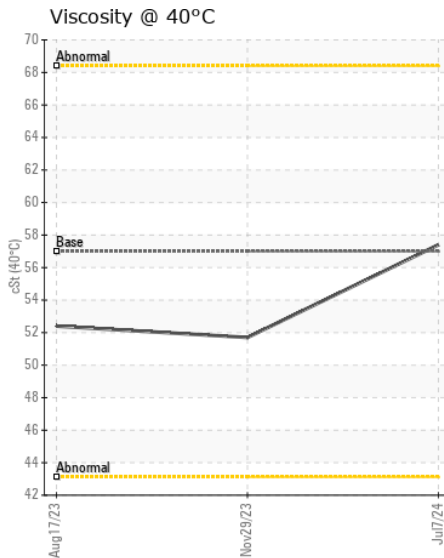
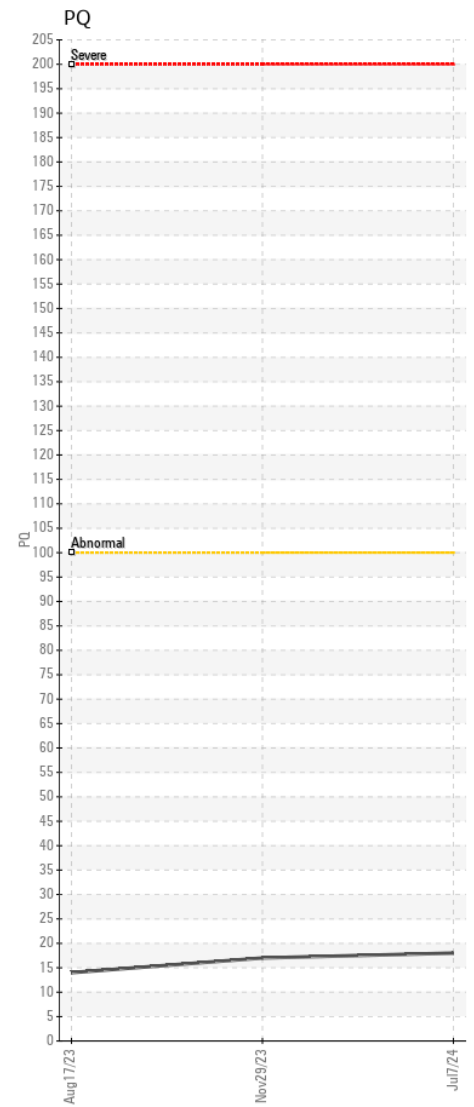
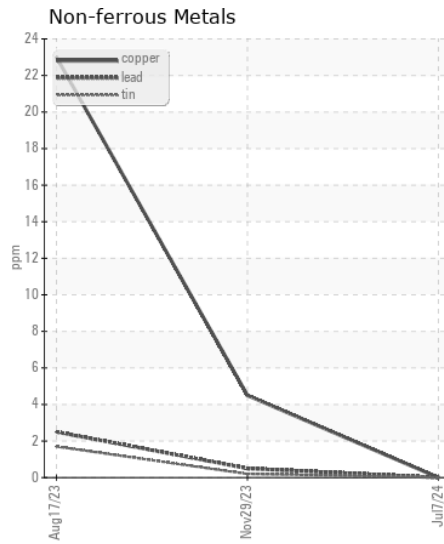
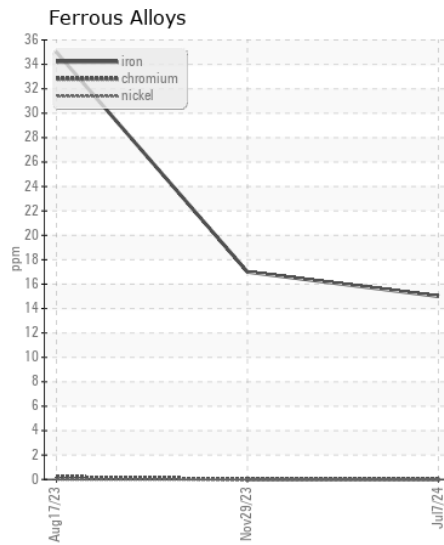
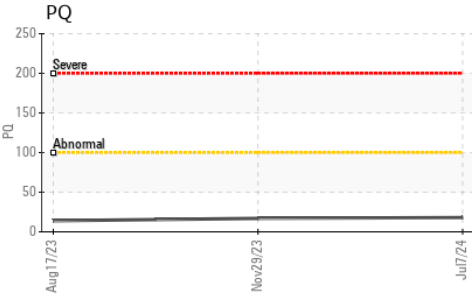
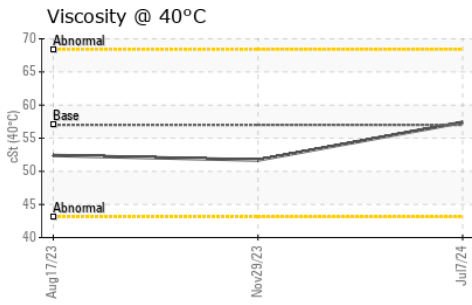
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>31	<b>9</b>	4	4
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	<1
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
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 condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m	>51	<b>2</b>	2	3
Boron	ppm	ASTM D5185m	6	<b>&lt;1</b>	0	0
Barium	ppm	ASTM D5185m	0	<b>0</b>	1	<1
Molybdenum	ppm	ASTM D5185m	0	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	3
Magnesium	ppm	ASTM D5185m	145	<b>95</b>	98	104
Calcium	ppm	ASTM D5185m	3570	<b>3322</b>	3344	3694
Phosphorus	ppm	ASTM D5185m	1290	<b>1018</b>	1033	1076
Zinc	ppm	ASTM D5185m	1640	<b>1206</b>	1205	1318
Sulfur	ppm	ASTM D5185m		<b>4103</b>	3232	4373
Visc @ 40°C	cSt	ASTM D445	57.0	<b>57.4</b>	51.7	52.4



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0219821 **Received** : 10 Jul 2024  
**Lab Number** : 06232548 **Tested** : 11 Jul 2024  
**Unique Number** : 11116041 **Diagnosed** : 11 Jul 2024 - Wes Davis  
**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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