



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



Machine Id  
**JOHN DEERE 410E 1DW410EBJNF715317**  
Component  
**Rear Differential**  
Fluid  
**JOHN DEERE HY-GARD HYD/TRANS (14 GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0209007</b>	JR0201135	JR0182325
Sample Date		Client Info		<b>24 Apr 2024</b>	06 Feb 2024	02 Oct 2023
Machine Age	hrs	Client Info		<b>5283</b>	4821	3978
Oil Age	hrs	Client Info		<b>1200</b>	843	2679
Filter Age	hrs	Client Info		<b>470</b>	843	810
Oil Changed		Client Info		<b>Not Changed</b>	N/A	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

PQ		ASTM D8184		<b>16</b>	7	13
Iron	ppm	ASTM D5185m	>500	<b>13</b>	12	34
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	<1	<1
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>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>25	<b>&lt;1</b>	1	<1
Lead	ppm	ASTM D5185m	>25	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>100	<b>4</b>	3	13
Tin	ppm	ASTM D5185m	>10	<b>0</b>	0	<1
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

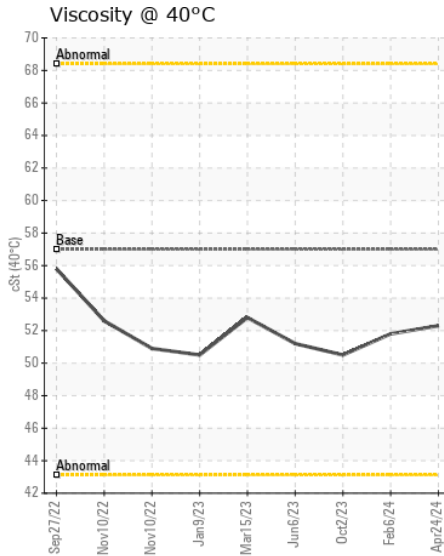
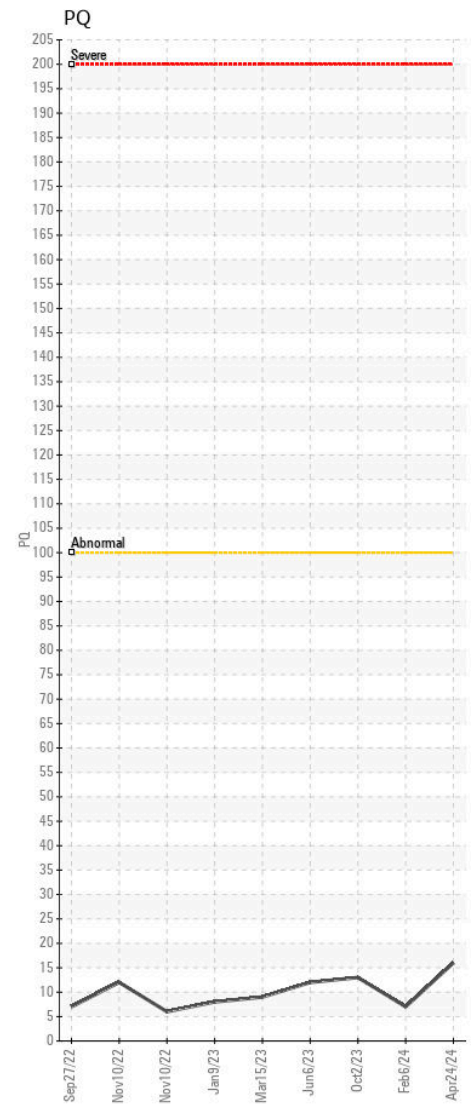
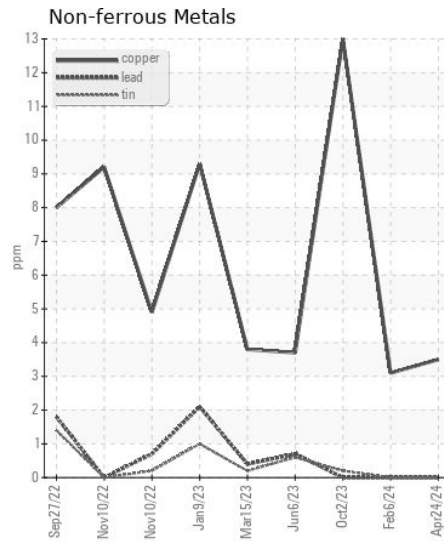
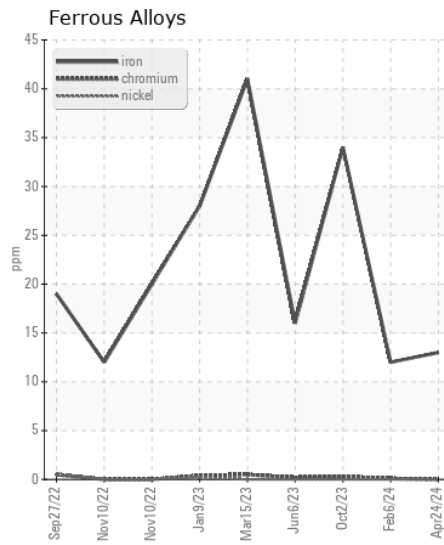
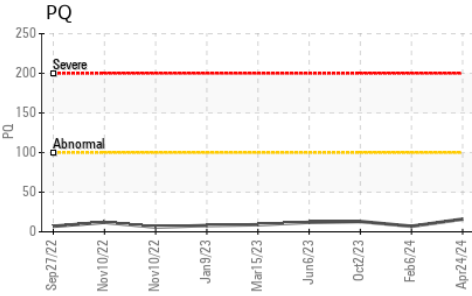
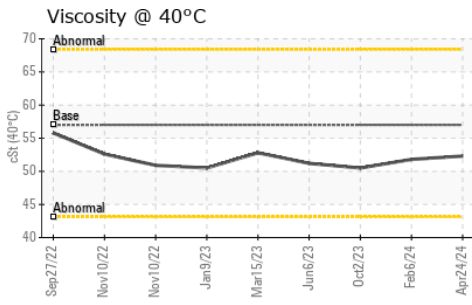
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	<b>3</b>	3	0
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	2	<1
Water		WC Method	>.2	<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	>.2	<b>NEG</b>	NEG	NEG

### FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		<b>4</b>	2	2
Boron	ppm	ASTM D5185m	6	<b>0</b>	<1	45
Barium	ppm	ASTM D5185m	0	<b>&lt;1</b>	0	120
Molybdenum	ppm	ASTM D5185m	0	<b>0</b>	0	<1
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Magnesium	ppm	ASTM D5185m	145	<b>92</b>	95	4
Calcium	ppm	ASTM D5185m	3570	<b>3301</b>	3278	30
Phosphorus	ppm	ASTM D5185m	1290	<b>993</b>	996	889
Zinc	ppm	ASTM D5185m	1640	<b>1129</b>	1204	25
Sulfur	ppm	ASTM D5185m		<b>3742</b>	3615	18203
Visc @ 40°C	cSt	ASTM D445	57.0	<b>52.3</b>	51.8	50.5



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0209007 **Received** : 26 Apr 2024  
**Lab Number** : 06161726 **Tested** : 30 Apr 2024  
**Unique Number** : 10997149 **Diagnosed** : 30 Apr 2024 - Sean Felton  
**Test Package** : CONST ( Additional Tests: PQ )

**JRE - NEW BERN**  
 3816 MARTIN LUTHER KING BLVD  
 NEW BERN, NC  
 US 28562  
 Contact: NEW BERN SHOP  
 nick.etherdridge@jamesriverequipment.com; canastasio@wearcheckusa.com  
 T:  
 F:

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)