



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



Machine Id  
**JOHN DEERE 410E-II 1DW410EYPNF715089**

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>JR0201232</b>	JR0182442	---
Sample Date		Client Info		<b>12 Feb 2024</b>	30 Aug 2023	---
Machine Age	hrs	Client Info		<b>3103</b>	2089	---
Oil Age	hrs	Client Info		<b>1014</b>	2089	---
Filter Age	hrs	Client Info		<b>0</b>	380	---
Oil Changed		Client Info		<b>N/A</b>	Changed	---
Filter Changed		Client Info		<b>N/A</b>	Changed	---
Sample Status				<b>NORMAL</b>	NORMAL	---

### WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		<b>14</b>	15	---
Iron	ppm	ASTM D5185m	>500	<b>151</b>	22	---
Chromium	ppm	ASTM D5185m	>10	<b>2</b>	<1	---
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Silver	ppm	ASTM D5185m		<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>25	<b>8</b>	<1	---
Lead	ppm	ASTM D5185m	>25	<b>1</b>	4	---
Copper	ppm	ASTM D5185m	>100	<b>9</b>	17	---
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	2	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	LIGHT	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

### CONTAMINATION

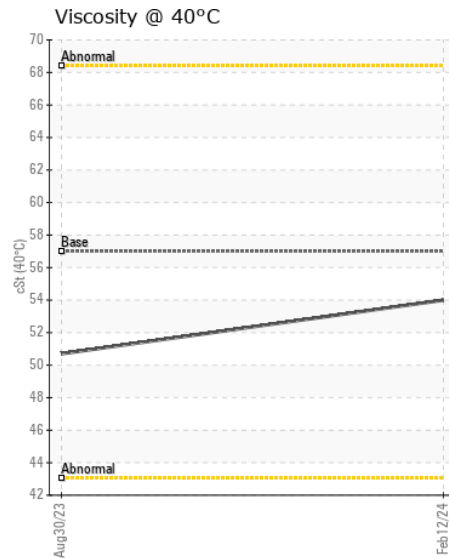
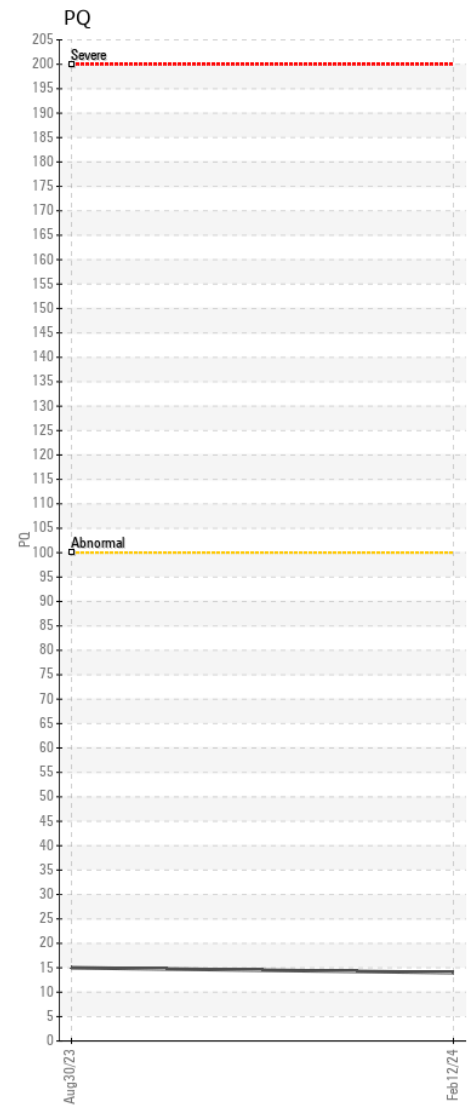
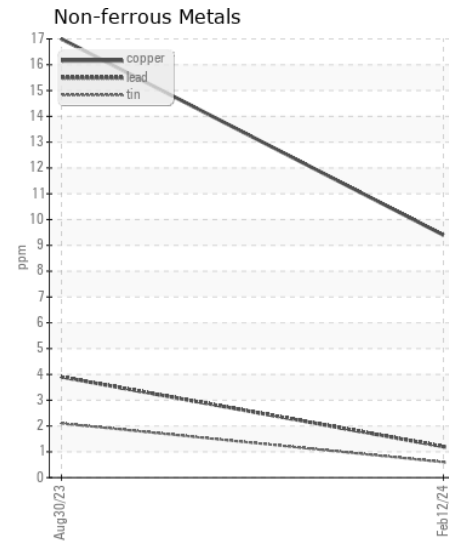
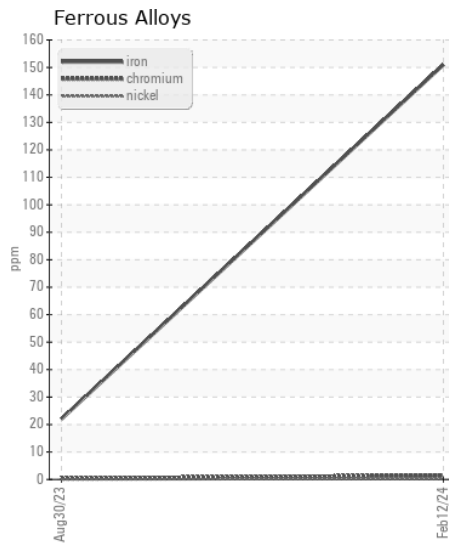
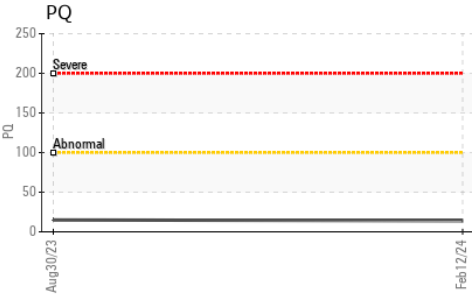
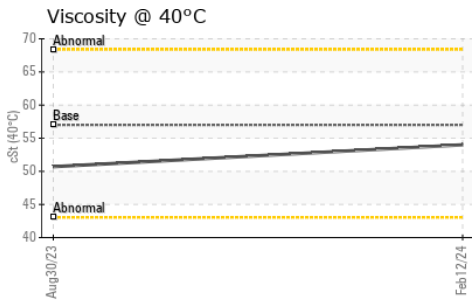
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	<b>45</b>	5	---
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	<1	---
Water		WC Method	>.2	<b>NEG</b>	NEG	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual	>.2	<b>NEG</b>	NEG	---

### FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		<b>2</b>	5	---
Boron	ppm	ASTM D5185m	6	<b>1</b>	0	---
Barium	ppm	ASTM D5185m	0	<b>2</b>	0	---
Molybdenum	ppm	ASTM D5185m	0	<b>1</b>	<1	---
Manganese	ppm	ASTM D5185m		<b>2</b>	2	---
Magnesium	ppm	ASTM D5185m	145	<b>87</b>	100	---
Calcium	ppm	ASTM D5185m	3570	<b>3115</b>	3491	---
Phosphorus	ppm	ASTM D5185m	1290	<b>881</b>	996	---
Zinc	ppm	ASTM D5185m	1640	<b>1154</b>	1242	---
Sulfur	ppm	ASTM D5185m		<b>5147</b>	4125	---
Visc @ 40°C	cSt	ASTM D445	57.0	<b>54.0</b>	50.7	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513

**Sample No.** : JR0201232

**Lab Number** : 06089064

**Unique Number** : 10876509

**Test Package** : CONST ( Additional Tests: PQ )

**Received** : 14 Feb 2024

**Tested** : 15 Feb 2024

**Diagnosed** : 15 Feb 2024 - Wes Davis

**JRE - NEW BERN**  
 3816 MARTIN LUTHER KING BLVD  
 NEW BERN, NC  
 US 28562

Contact: NEW BERN SHOP

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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)

T:  
F: