



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



Machine Id  
**JOHN DEERE 410E-II 1DW410EYJNF715032**  
Component  
**Center 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>JR0220761</b>	JR0214122	JR0201073
Sample Date		Client Info		<b>27 Jun 2024</b>	29 Apr 2024	30 Jan 2024
Machine Age	hrs	Client Info		<b>4399</b>	3871	3362
Oil Age	hrs	Client Info		<b>2583</b>	2564	2683
Filter Age	hrs	Client Info		<b>500</b>	0	500
Oil Changed		Client Info		<b>Changed</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>Changed</b>	N/A	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

PQ		ASTM D8184		<b>15</b>	17	20
Iron	ppm	ASTM D5185m	>500	<b>52</b>	14	16
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Aluminum	ppm	ASTM D5185m	>25	<b>3</b>	1	1
Lead	ppm	ASTM D5185m	>25	<b>15</b>	12	13
Copper	ppm	ASTM D5185m	>100	<b>31</b>	21	18
Tin	ppm	ASTM D5185m	>10	<b>3</b>	2	2
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

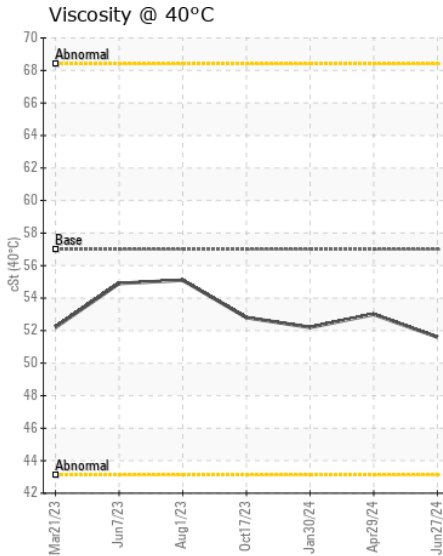
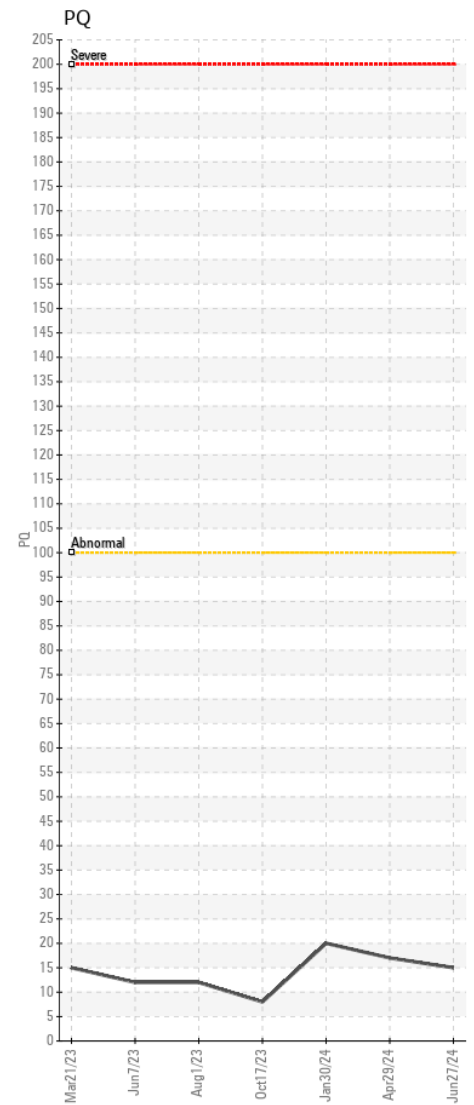
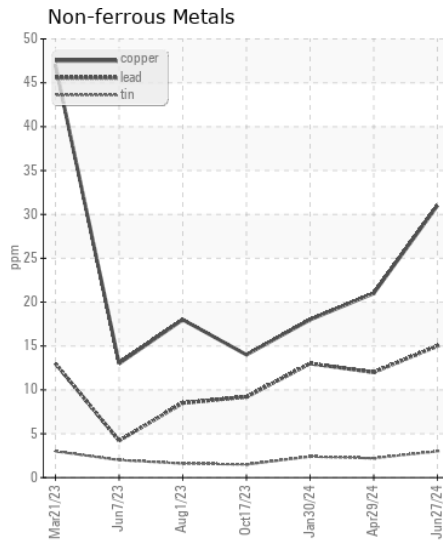
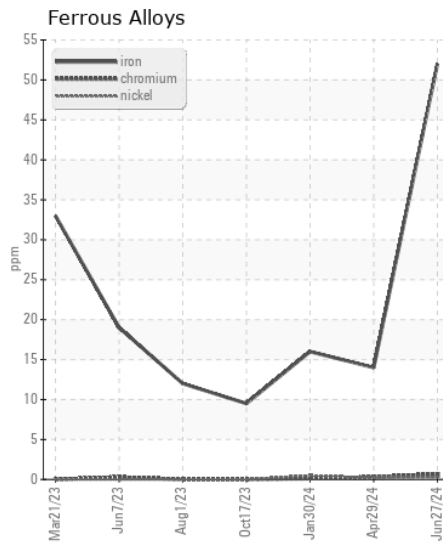
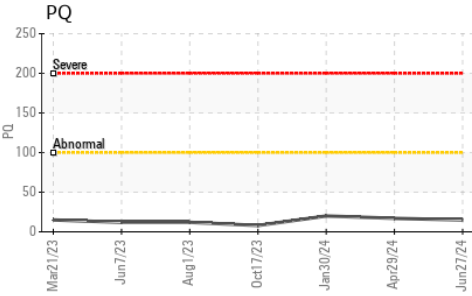
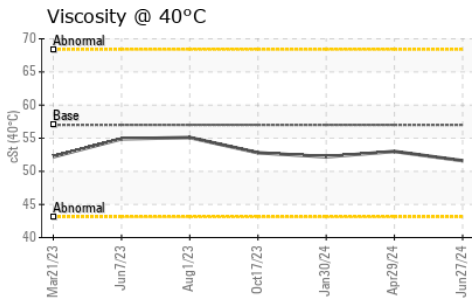
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	<b>6</b>	5	6
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	2	3
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>2</b>	0	4
Boron	ppm	ASTM D5185m	6	<b>13</b>	0	<1
Barium	ppm	ASTM D5185m	0	<b>&lt;1</b>	<1	0
Molybdenum	ppm	ASTM D5185m	0	<b>&lt;1</b>	<1	<1
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	2
Magnesium	ppm	ASTM D5185m	145	<b>93</b>	92	96
Calcium	ppm	ASTM D5185m	3570	<b>3396</b>	3464	3283
Phosphorus	ppm	ASTM D5185m	1290	<b>1079</b>	1128	976
Zinc	ppm	ASTM D5185m	1640	<b>1223</b>	1227	1180
Sulfur	ppm	ASTM D5185m		<b>8010</b>	4071	3457
Visc @ 40°C	cSt	ASTM D445	57.0	<b>51.6</b>	53.0	52.2



Certificate L2367

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

Sample No. : JR0220761

Lab Number : 06224792

Unique Number : 11102989

Test Package : CONST ( Additional Tests: PQ )

Received : 01 Jul 2024

Tested : 02 Jul 2024

Diagnosed : 02 Jul 2024 - Wes Davis

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

Contact: NEW BERN SHOP

nick.etherdridge@jamesriverequipment.com; canastasio@wearcheckusa.com

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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F: