



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



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

Component  
**Hydraulic System**

Fluid  
**JOHN DEERE HYDRAU (--- GAL)**

### RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0201231</b>	JR0182444	JR0144889
Sample Date		Client Info		<b>12 Feb 2024</b>	30 Aug 2023	04 Oct 2022
Machine Age	hrs	Client Info		<b>3103</b>	2089	8
Oil Age	hrs	Client Info		<b>3103</b>	2089	8
Filter Age	hrs	Client Info		<b>0</b>	0	8
Oil Changed		Client Info		<b>N/A</b>	Not Changd	Filtered
Filter Changed		Client Info		<b>N/A</b>	N/A	Changed
Sample Status				<b>ATTENTION</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

PQ		ASTM D8184	>50	<b>16</b>	12	16
Iron	ppm	ASTM D5185m	>71	<b>6</b>	5	3
Chromium	ppm	ASTM D5185m	>11	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m	>6	<b>&lt;1</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>11	<b>&lt;1</b>	0	0
Lead	ppm	ASTM D5185m	>13	<b>0</b>	<1	1
Copper	ppm	ASTM D5185m	>21	<b>1</b>	2	<1
Tin	ppm	ASTM D5185m	>5	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

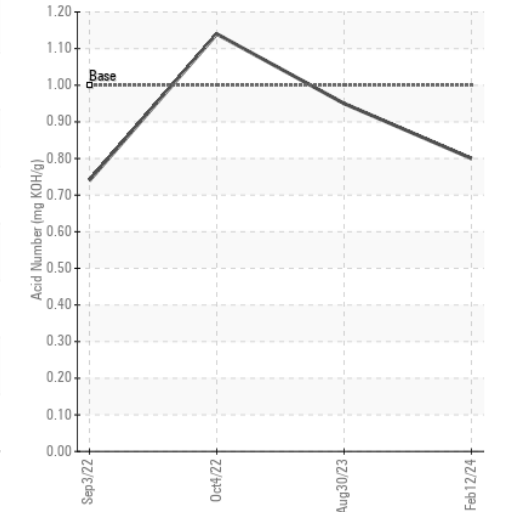
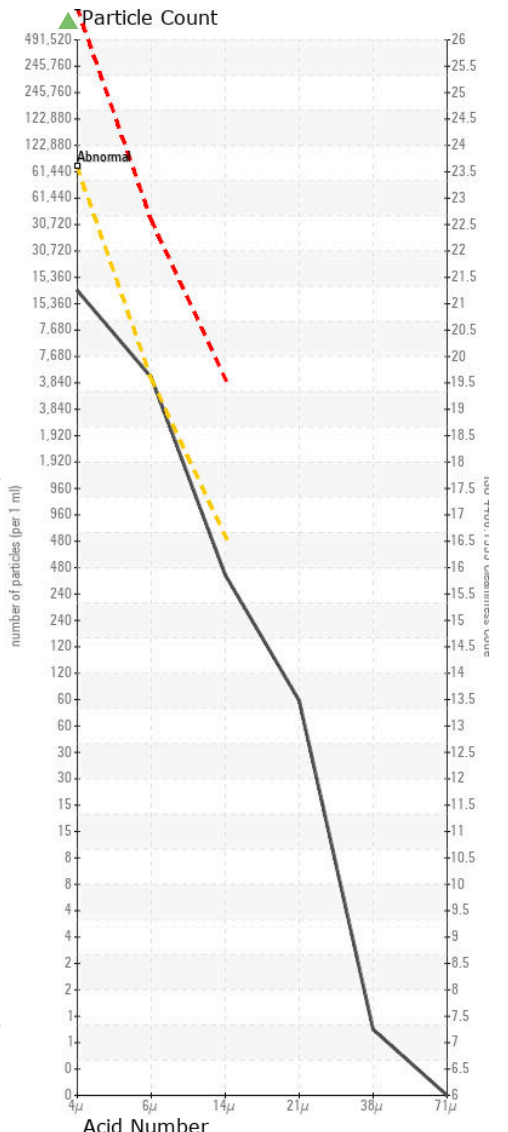
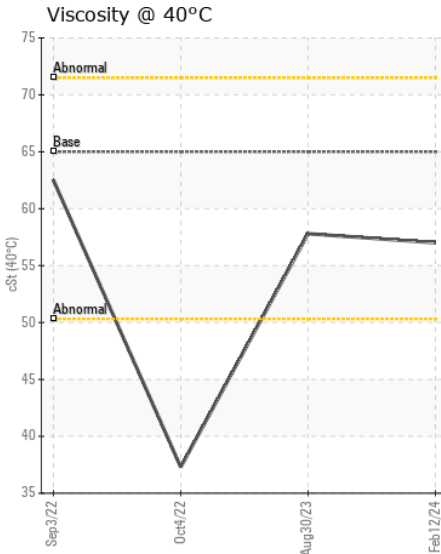
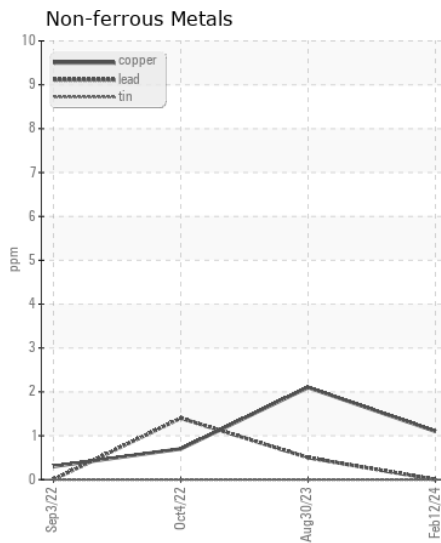
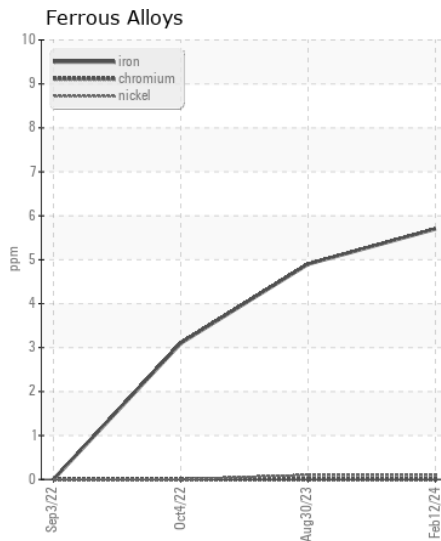
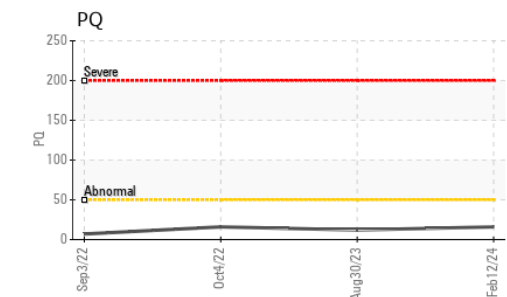
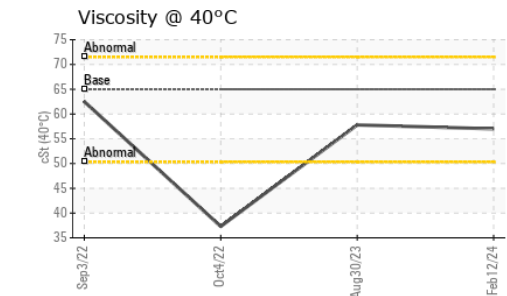
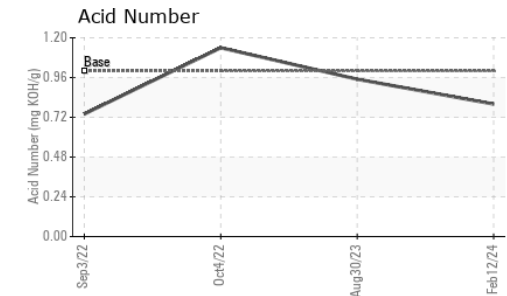
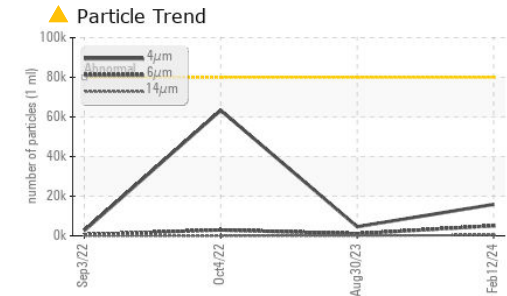
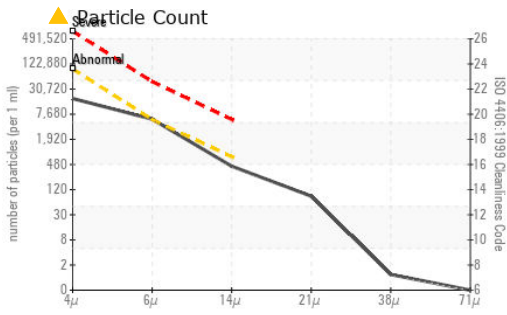
There is a light amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>24	<b>8</b>	7	6
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	2	2
Water		WC Method	>0.075	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>80000	<b>15859</b>	4582	63346
Particles >6µm		ASTM D7647	>5000	<b>▲ 5084</b>	1074	2952
Particles >14µm		ASTM D7647	>640	<b>384</b>	88	14
Particles >21µm		ASTM D7647	>160	<b>74</b>	25	3
Particles >38µm		ASTM D7647	>40	<b>1</b>	2	0
Particles >71µm		ASTM D7647	>10	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>23/19/16	<b>▲ 21/20/16</b>	19/17/14	23/19/11
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	>0.075	<b>NEG</b>	NEG	NEG

### FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m	>21	<b>3</b>	0	2
Boron	ppm	ASTM D5185m		<b>21</b>	22	143
Barium	ppm	ASTM D5185m		<b>0</b>	2	0
Molybdenum	ppm	ASTM D5185m		<b>3</b>	4	3
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Magnesium	ppm	ASTM D5185m		<b>22</b>	20	0
Calcium	ppm	ASTM D5185m	87	<b>164</b>	180	137
Phosphorus	ppm	ASTM D5185m	727	<b>687</b>	671	268
Zinc	ppm	ASTM D5185m	900	<b>918</b>	900	0
Sulfur	ppm	ASTM D5185m	1500	<b>1855</b>	1845	472
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	<b>0.80</b>	0.95	1.14
Visc @ 40°C	cSt	ASTM D445	65	<b>57.0</b>	57.8	37.3



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0201231 **Received** : 14 Feb 2024  
**Lab Number** : 06088700 **Tested** : 15 Feb 2024  
**Unique Number** : 10876145 **Diagnosed** : 15 Feb 2024 - Wes Davis  
**Test Package** : CONST ( Additional Tests: PQ )

**JRE - NEW BERN**  
 3816 MARTIN LUTHER KING BLVD  
 NEW BERN, NC  
 US 28562  
 Contact: NEW BERN SHOP  
 nick.etheridge@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: