



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



Area  
**[W8471]**  
 Machine Id  
**JOHN DEERE 410E-II 1DW410ELPNF713346**  
 Component  
**Center Axle**  
 Fluid  
**JOHN DEERE HY-GARD HYD/TRANS (46 QTS)**

### RECOMMENDATION

Resample at the next service interval to monitor. ( Customer Sample Comment: W8471 )

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0197020</b>	JR0183428	JR0077944
Sample Date		Client Info		<b>09 Feb 2024</b>	15 Sep 2023	20 Oct 2022
Machine Age	hrs	Client Info		<b>2557</b>	1995	512
Oil Age	hrs	Client Info		<b>562</b>	1995	512
Filter Age	hrs	Client Info		<b>562</b>	995	0
Oil Changed		Client Info		<b>Changed</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>17</b>	26	34
Iron	ppm	ASTM D5185m	>1501	<b>32</b>	52	30
Chromium	ppm	ASTM D5185m	>11	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>21	<b>2</b>	5	1
Lead	ppm	ASTM D5185m	>51	<b>10</b>	17	10
Copper	ppm	ASTM D5185m	>101	<b>6</b>	12	5
Tin	ppm	ASTM D5185m	>10	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

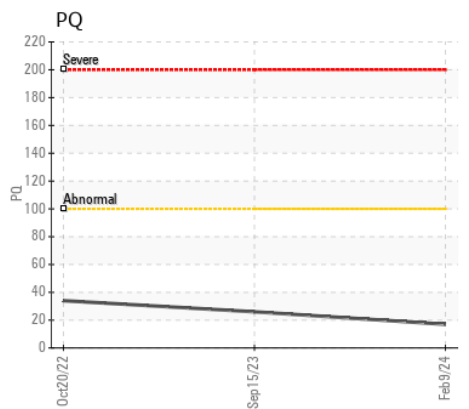
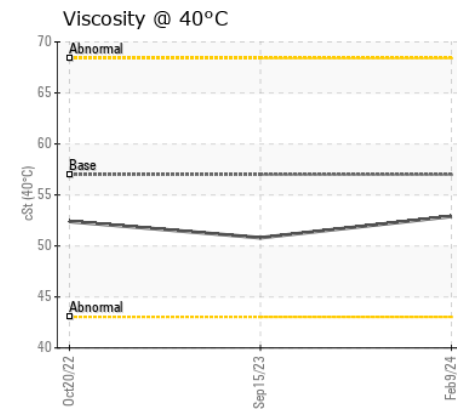
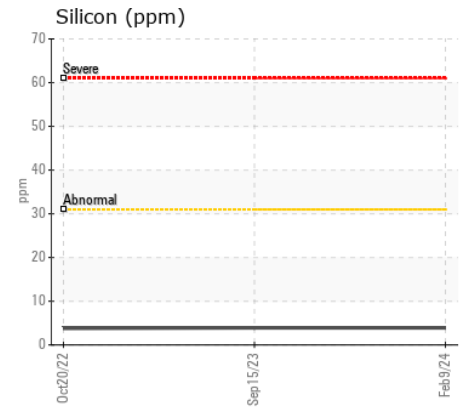
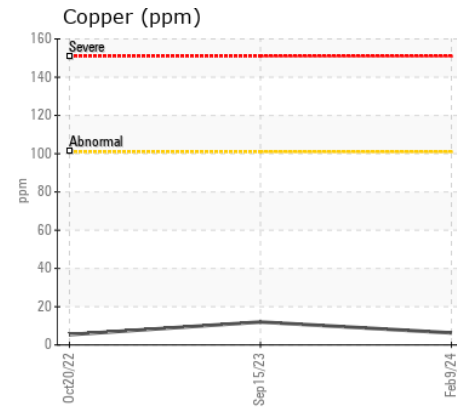
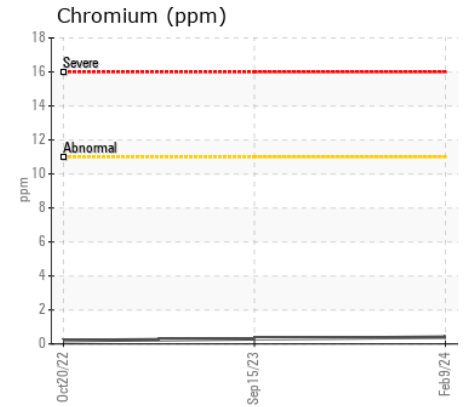
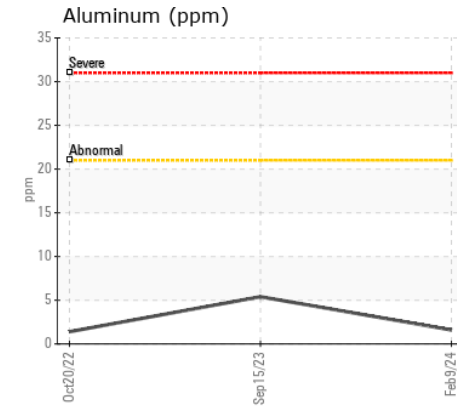
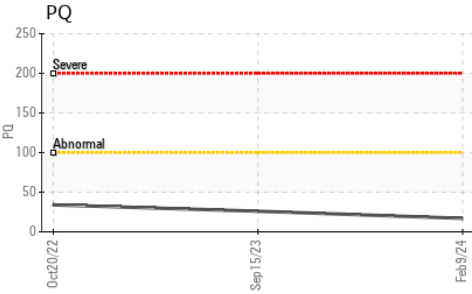
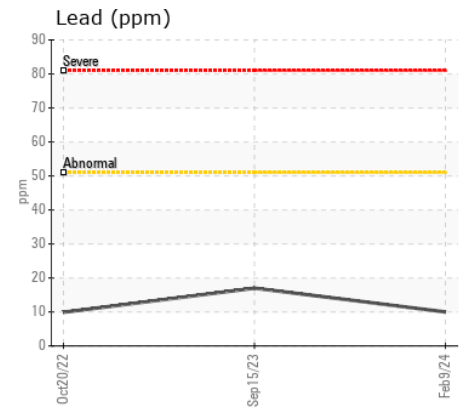
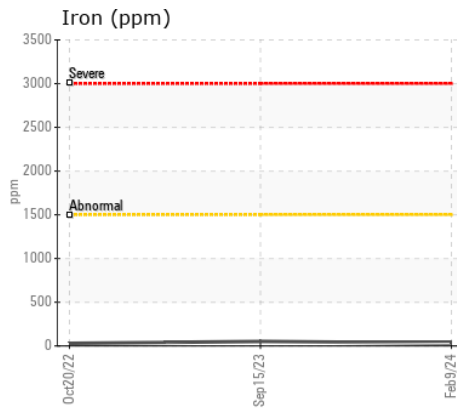
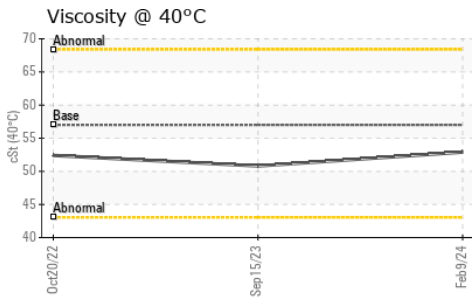
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>31	<b>4</b>	4	4
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	<1	0
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>1</b>	6	4
Boron	ppm	ASTM D5185m	6	<b>0</b>	3	0
Barium	ppm	ASTM D5185m	0	<b>21</b>	2	4
Molybdenum	ppm	ASTM D5185m	0	<b>&lt;1</b>	0	<1
Manganese	ppm	ASTM D5185m		<b>1</b>	2	3
Magnesium	ppm	ASTM D5185m	145	<b>82</b>	96	96
Calcium	ppm	ASTM D5185m	3570	<b>2603</b>	3338	3548
Phosphorus	ppm	ASTM D5185m	1290	<b>838</b>	983	1020
Zinc	ppm	ASTM D5185m	1640	<b>1033</b>	1201	1217
Sulfur	ppm	ASTM D5185m		<b>2467</b>	4072	4253
Visc @ 40°C	cSt	ASTM D445	57.0	<b>52.9</b>	50.8	52.4



Certificate L2367

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

Sample No. : JR0197020

Lab Number : 06087653

Unique Number : 10875098

Test Package : MOBCE ( Additional Tests: PQ )

Received : 13 Feb 2024

Tested : 14 Feb 2024

Diagnosed : 14 Feb 2024 - Don Baldrige

JRE - HOPE MILLS/FAYETTEVILLE

5039 HWY 301 SOUTH

HOPE MILLS, NC

US 28348

Contact: FAYETTEVILLE SHOP

stephen.mullis@jamesriverequipment.com;canastasio@wearcheck.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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