



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



Machine Id  
**JOHN DEERE 410E 1DW410ETEFK697804**  
Component  
**Front Axle**  
Fluid  
**JOHN DEERE HY-GARD HYD/TRANS (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0212625</b>	JR0197427	JR0139246
Sample Date		Client Info		<b>24 May 2024</b>	07 Dec 2023	26 Aug 2022
Machine Age	hrs	Client Info		<b>5520</b>	5009	3982
Oil Age	hrs	Client Info		<b>0</b>	1027	3982
Filter Age	hrs	Client Info		<b>0</b>	1027	0
Oil Changed		Client Info		<b>Not Changed</b>	Not Changed	Changed
Filter Changed		Client Info		<b>Not Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		<b>21</b>	16	16
Iron	ppm	ASTM D5185m	>1501	<b>29</b>	43	32
Chromium	ppm	ASTM D5185m	>11	<b>0</b>	<1	<1
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>21	<b>&lt;1</b>	1	1
Lead	ppm	ASTM D5185m	>51	<b>32</b>	33	41
Copper	ppm	ASTM D5185m	>101	<b>14</b>	13	11
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</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 fluid.

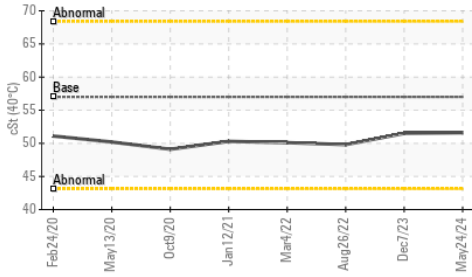
Silicon	ppm	ASTM D5185m	>31	<b>3</b>	5	3
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	<1	2
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<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

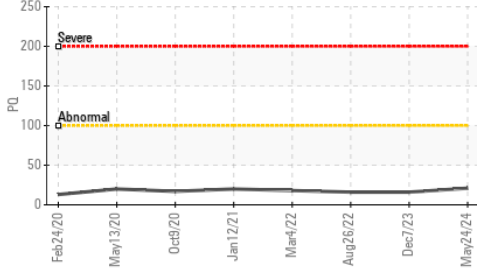
The condition of the fluid is acceptable for the time in service.

Sodium	ppm	ASTM D5185m	>51	<b>3</b>	1	2
Boron	ppm	ASTM D5185m	6	<b>2</b>	3	5
Barium	ppm	ASTM D5185m	0	<b>1</b>	0	2
Molybdenum	ppm	ASTM D5185m	0	<b>&lt;1</b>	2	2
Manganese	ppm	ASTM D5185m		<b>1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	145	<b>102</b>	84	93
Calcium	ppm	ASTM D5185m	3570	<b>3395</b>	3343	3282
Phosphorus	ppm	ASTM D5185m	1290	<b>1075</b>	1138	996
Zinc	ppm	ASTM D5185m	1640	<b>1246</b>	1323	1196
Sulfur	ppm	ASTM D5185m		<b>3993</b>	3567	3442
Visc @ 40°C	cSt	ASTM D445	57.0	<b>51.6</b>	51.5	49.8

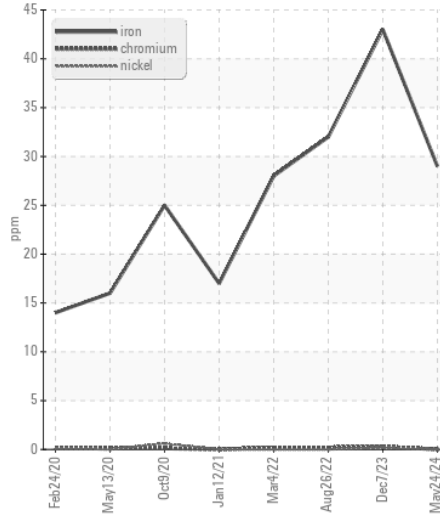
Viscosity @ 40°C



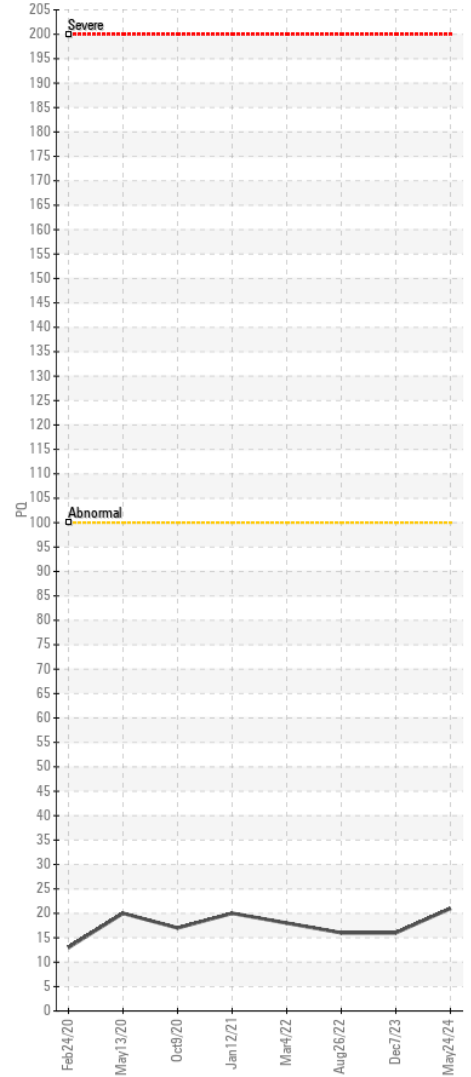
PQ



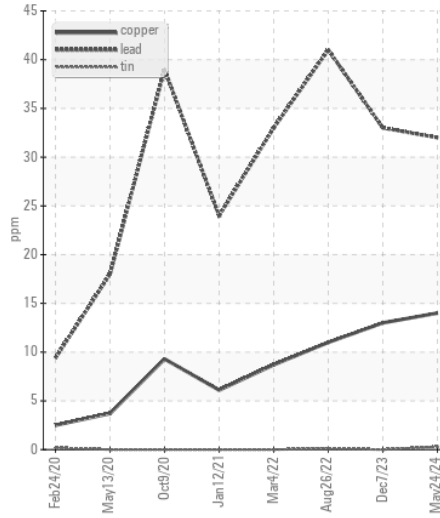
Ferrous Alloys



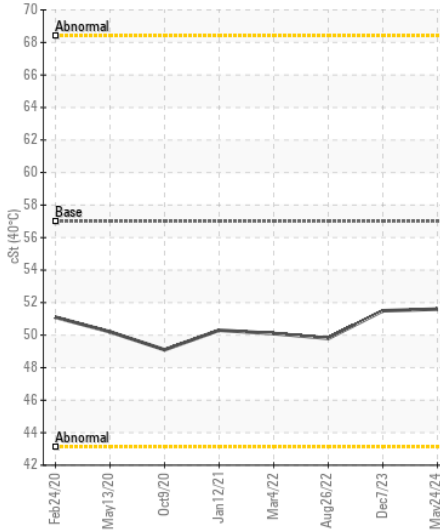
PQ



Non-ferrous Metals



Viscosity @ 40°C



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0212625 **Received** : 30 May 2024  
**Lab Number** : 06195655 **Tested** : 31 May 2024  
**Unique Number** : 11057778 **Diagnosed** : 01 Jun 2024 - Don Baldrige  
**Test Package** : CONST ( Additional Tests: PQ )

**JRE - GARNER**  
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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)