



# OIL ANALYSIS REPORT

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



Area  
**[A35845]**  
 Machine Id  
**JOHN DEERE 310E 1T0310ELKJG338907**  
 Component  
**Transmission (Manual)**  
 Fluid  
**JOHN DEERE HY-GARD HYD/TRANS (8 GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor. ( Customer Sample Comment: A35845 )

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WE0007705</b>	WE0003403	---
Sample Date		Client Info		<b>16 Jul 2024</b>	10 Mar 2023	---
Machine Age	hrs	Client Info		<b>2190</b>	1684	---
Oil Age	hrs	Client Info		<b>2190</b>	1684	---
Filter Age	hrs	Client Info		<b>2190</b>	500	---
Oil Changed		Client Info		<b>Changed</b>	Not Changd	---
Filter Changed		Client Info		<b>Changed</b>	Not Changd	---
Sample Status				<b>NORMAL</b>	NORMAL	---

## WEAR

All component wear rates are normal.

PQ		ASTM D8184	>95	<b>22</b>	16	---
Iron	ppm	ASTM D5185m	>200	<b>32</b>	36	---
Chromium	ppm	ASTM D5185m	>5	<b>0</b>	<1	---
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	<1	---
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	---
Silver	ppm	ASTM D5185m	>7	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>25	<b>18</b>	22	---
Lead	ppm	ASTM D5185m	>45	<b>0</b>	<1	---
Copper	ppm	ASTM D5185m	>225	<b>37</b>	40	---
Tin	ppm	ASTM D5185m	>10	<b>0</b>	<1	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

## CONTAMINATION

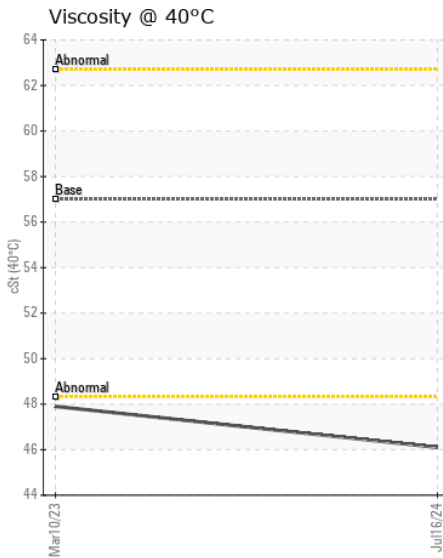
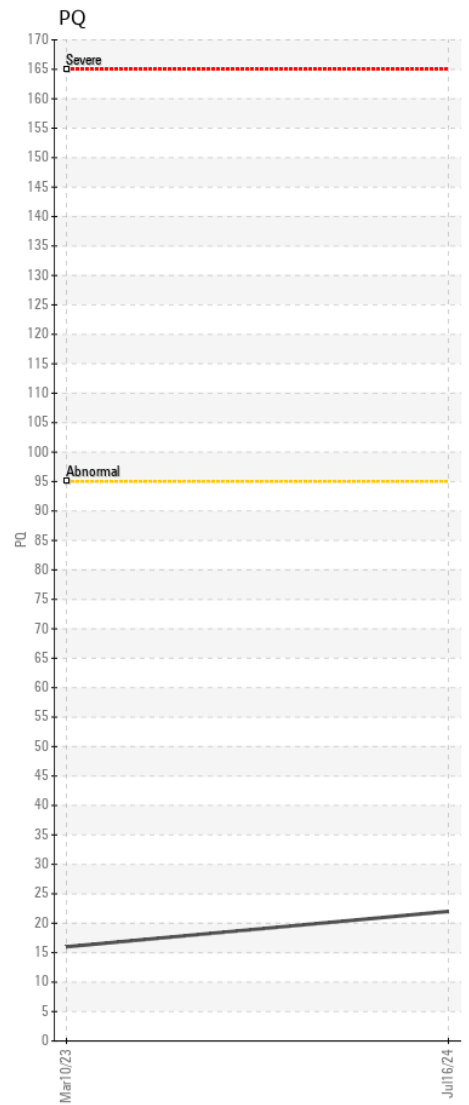
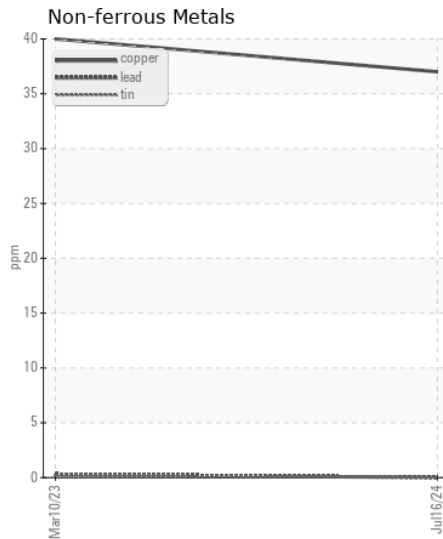
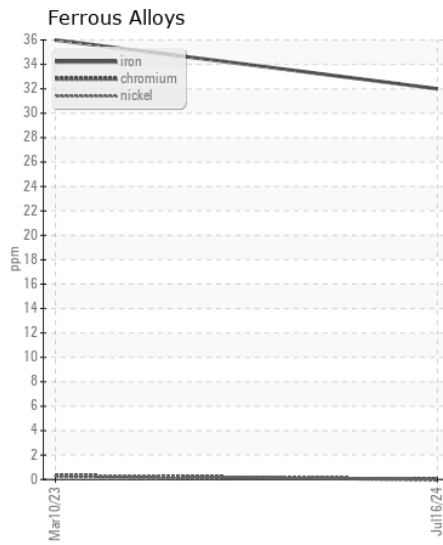
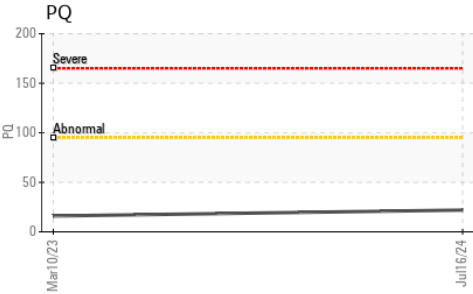
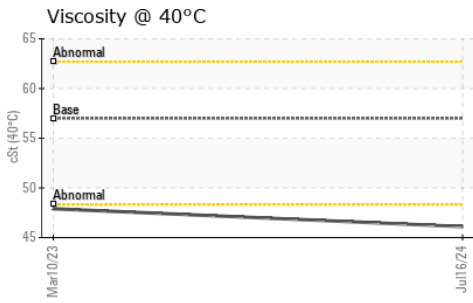
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185m	>125	<b>6</b>	6	---
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	4	---
Water		WC Method	>0.1	<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	>0.1	<b>NEG</b>	NEG	---

## FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		<b>6</b>	3	---
Boron	ppm	ASTM D5185m	6	<b>8</b>	11	---
Barium	ppm	ASTM D5185m	0	<b>&lt;1</b>	0	---
Molybdenum	ppm	ASTM D5185m	0	<b>4</b>	5	---
Manganese	ppm	ASTM D5185m		<b>1</b>	2	---
Magnesium	ppm	ASTM D5185m	145	<b>100</b>	127	---
Calcium	ppm	ASTM D5185m	3570	<b>3550</b>	4556	---
Phosphorus	ppm	ASTM D5185m	1290	<b>1002</b>	1289	---
Zinc	ppm	ASTM D5185m	1640	<b>1142</b>	1587	---
Sulfur	ppm	ASTM D5185m		<b>3745</b>	4505	---
Visc @ 40°C	cSt	ASTM D445	57.0	<b>46.1</b>	47.9	---



Certificate L2367

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

**Sample No.** : WE0007705

**Lab Number** : 06240542

**Unique Number** : 11129376

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

**Received** : 18 Jul 2024

**Tested** : 19 Jul 2024

**Diagnosed** : 20 Jul 2024 - Don Baldrige

**WARRIOR TRACTOR AND EQUIPMENT - HUNTSVILLE**

25135 ONE AVIATION WAY SW

MADISON, AL

US 35756

Contact: HERBERT STONE

WTE013@WARRIORTRACTOR.COM

T:

F:

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)