



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



Machine Id  
**JOHN DEERE 310E 1DW310EXVMF710644**  
Component  
**Transmission (Auto)**  
Fluid  
**JOHN DEERE HY-GARD HYD/TRANS (16 GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0214976</b>	JR0203486	JR0206355
Sample Date		Client Info		<b>07 May 2024</b>	26 Mar 2024	14 Mar 2024
Machine Age	hrs	Client Info		<b>3470</b>	3322	3302
Oil Age	hrs	Client Info		<b>2208</b>	2080	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Changed</b>	Not Changed	Not Changed
Filter Changed		Client Info		<b>Not Changed</b>	Not Changed	Not Changed
Sample Status				<b>ATTENTION</b>	MARGINAL	ABNORMAL

### WEAR

All component wear rates are normal.

PQ		ASTM D8184	>50	<b>12</b>	32	33
Iron	ppm	ASTM D5185m	>160	<b>0</b>	50	57
Chromium	ppm	ASTM D5185m	>5	<b>0</b>	0	<1
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	<1
Silver	ppm	ASTM D5185m	>5	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185m	>50	<b>0</b>	1	2
Lead	ppm	ASTM D5185m	>50	<b>0</b>	▲ 59	▲ 60
Copper	ppm	ASTM D5185m	>225	<b>0</b>	4	4
Tin	ppm	ASTM D5185m	>10	<b>0</b>	0	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

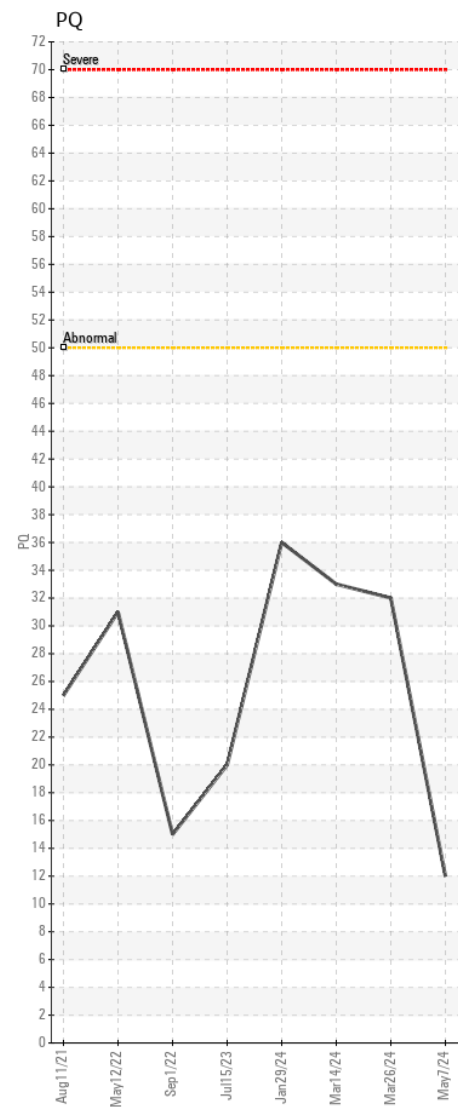
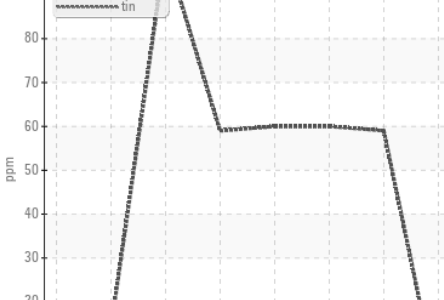
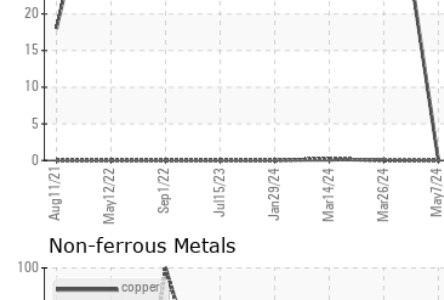
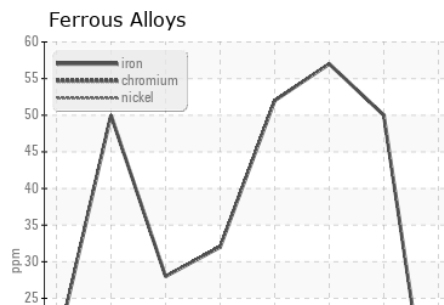
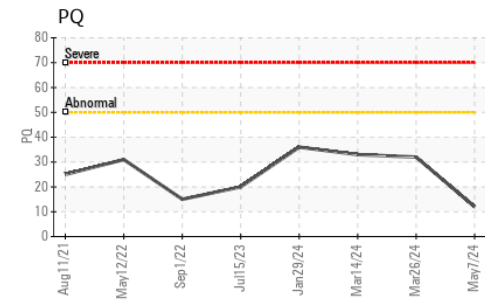
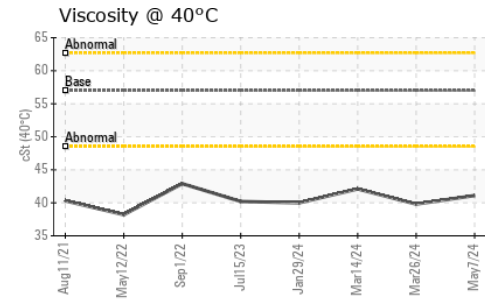
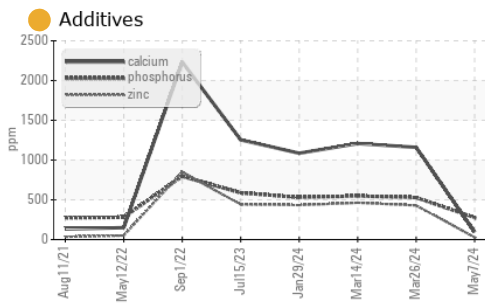
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185m	>20	<b>&lt;1</b>	5	6
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</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

Additive levels indicate the addition of a different brand, or type of fluid. Confirm oil type. The condition of the fluid is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>1</b>	2	0
Boron	ppm	ASTM D5185m	6	● <b>153</b>	126	129
Barium	ppm	ASTM D5185m	0	<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185m	0	<b>0</b>	<1	<1
Manganese	ppm	ASTM D5185m		<b>0</b>	1	<1
Magnesium	ppm	ASTM D5185m	145	● <b>2</b>	6	9
Calcium	ppm	ASTM D5185m	3570	● <b>96</b>	1160	1208
Phosphorus	ppm	ASTM D5185m	1290	● <b>276</b>	528	548
Zinc	ppm	ASTM D5185m	1640	● <b>29</b>	429	463
Sulfur	ppm	ASTM D5185m		● <b>352</b>	1678	1760
Visc @ 40°C	cSt	ASTM D445	57.0	<b>41.1</b>	39.8	42.1



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0214976 **Received** : 10 May 2024  
**Lab Number** : 06175723 **Tested** : 13 May 2024  
**Unique Number** : 11021776 **Diagnosed** : 13 May 2024 - Sean Felton  
**Test Package** : CONST ( Additional Tests: PQ )

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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