



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

Area

**[44778]**

Machine Id

**JOHN DEERE 1T0310SLAMF401511**

Component

**Transmission (Manual)**

Fluid

**JOHN DEERE HY-GARD HYDRAULIC/RANSMISSION (--- QTS)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0199420</b>	JR0172712	JR0127042
Sample Date		Client Info		<b>13 Feb 2024</b>	29 Jun 2023	20 May 2022
Machine Age	hrs	Client Info		<b>1382</b>	1088	556
Oil Age	hrs	Client Info		<b>1382</b>	0	556
Filter Age	hrs	Client Info		<b>0</b>	0	556
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>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

PQ		ASTM D8184	>95	<b>16</b>	13	25
Iron	ppm	ASTM D5185m	>200	<b>35</b>	28	19
Chromium	ppm	ASTM D5185m	>5	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m	>7	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>25	<b>7</b>	5	5
Lead	ppm	ASTM D5185m	>45	<b>0</b>	0	<1
Copper	ppm	ASTM D5185m	>225	<b>20</b>	16	11
Tin	ppm	ASTM D5185m	>10	<b>0</b>	<1	<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

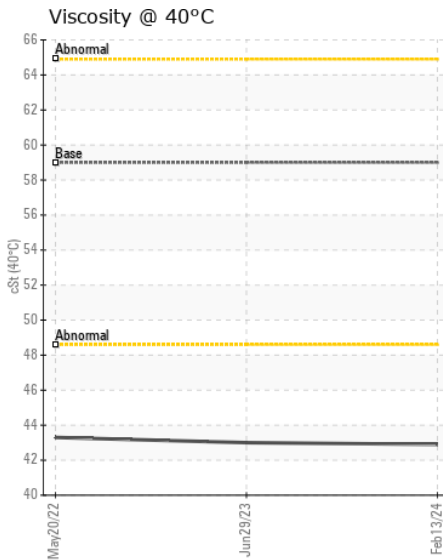
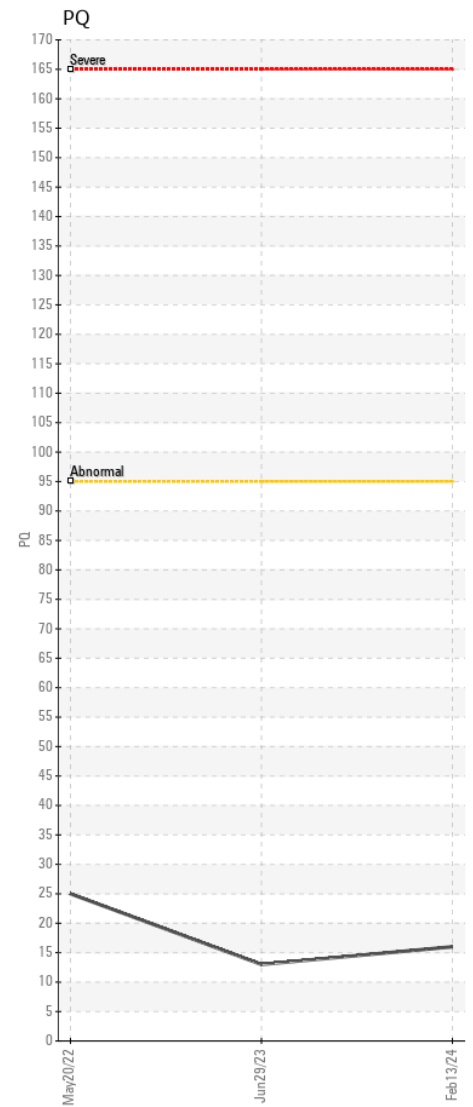
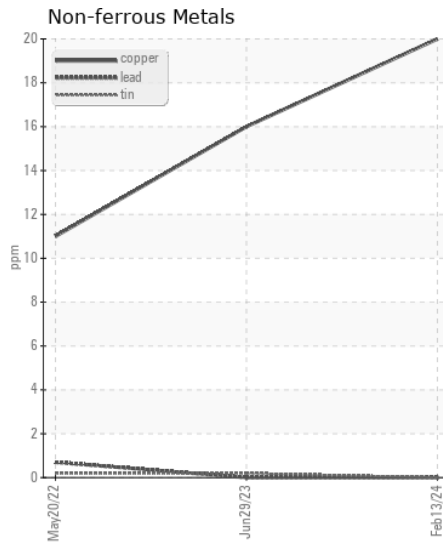
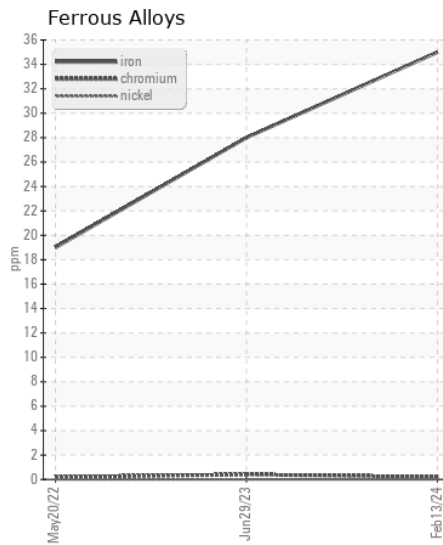
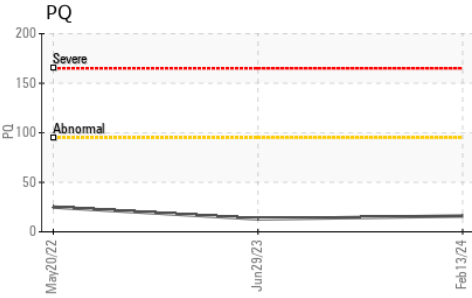
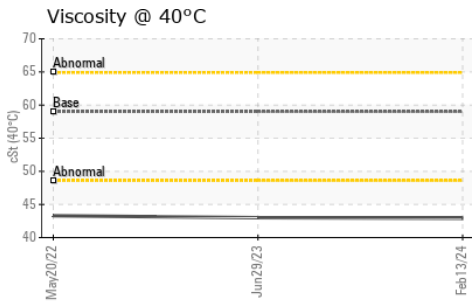
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185m	>125	<b>6</b>	5	5
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	2	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		<b>4</b>	7	8
Boron	ppm	ASTM D5185m		<b>19</b>	21	23
Barium	ppm	ASTM D5185m		<b>13</b>	1	0
Molybdenum	ppm	ASTM D5185m		<b>0</b>	<1	<1
Manganese	ppm	ASTM D5185m		<b>2</b>	3	3
Magnesium	ppm	ASTM D5185m		<b>81</b>	96	91
Calcium	ppm	ASTM D5185m		<b>3273</b>	3883	3585
Phosphorus	ppm	ASTM D5185m		<b>960</b>	1149	1072
Zinc	ppm	ASTM D5185m		<b>1251</b>	1463	1275
Sulfur	ppm	ASTM D5185m		<b>3861</b>	4791	3245
Visc @ 40°C	cSt	ASTM D445	59	<b>42.9</b>	43.0	43.3



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0199420 **Received** : 14 Feb 2024  
**Lab Number** : 06089671 **Tested** : 16 Feb 2024  
**Unique Number** : 10877116 **Diagnosed** : 16 Feb 2024 - Wes Davis  
**Test Package** : CONST ( Additional Tests: PQ )

**NPL CONSTRUCTION**  
 7611 COPPERMINE DR  
 MANASSAS, VA  
 US 20109-2668  
 Contact: BRANDON

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)

T:  
F: