



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

Machine Id  
**JOHN DEERE 310G T0310GX901801**  
 Component  
**Rear Differential**  
 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>JR0193962</b>	JR0167537	JR0167409
Sample Date		Client Info		<b>12 Jan 2024</b>	16 Jun 2023	19 Apr 2023
Machine Age	hrs	Client Info		<b>8163</b>	7520	7511
Oil Age	hrs	Client Info		<b>643</b>	7520	7511
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Changd</b>	Changed	Not Changd
Filter Changed		Client Info		<b>N/A</b>	Changed	Not Changd
Sample Status				<b>NORMAL</b>	NORMAL	ABNORMAL

### WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		<b>197</b>	51	55
Iron	ppm	ASTM D5185m	>500	<b>576</b>	362	377
Chromium	ppm	ASTM D5185m	>10	<b>1</b>	4	3
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	1	<1
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>1</b>	3	<1
Lead	ppm	ASTM D5185m	>25	<b>&lt;1</b>	3	2
Copper	ppm	ASTM D5185m	>100	<b>16</b>	76	79
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

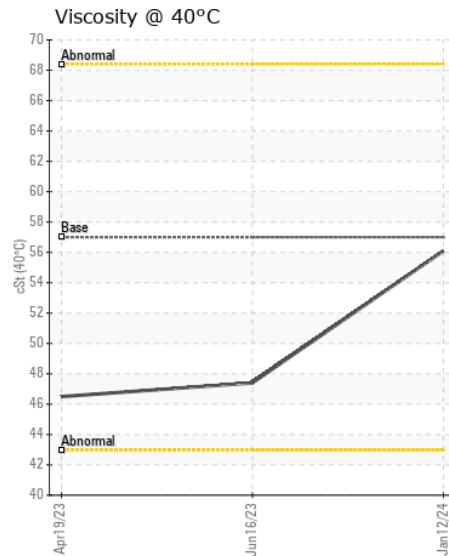
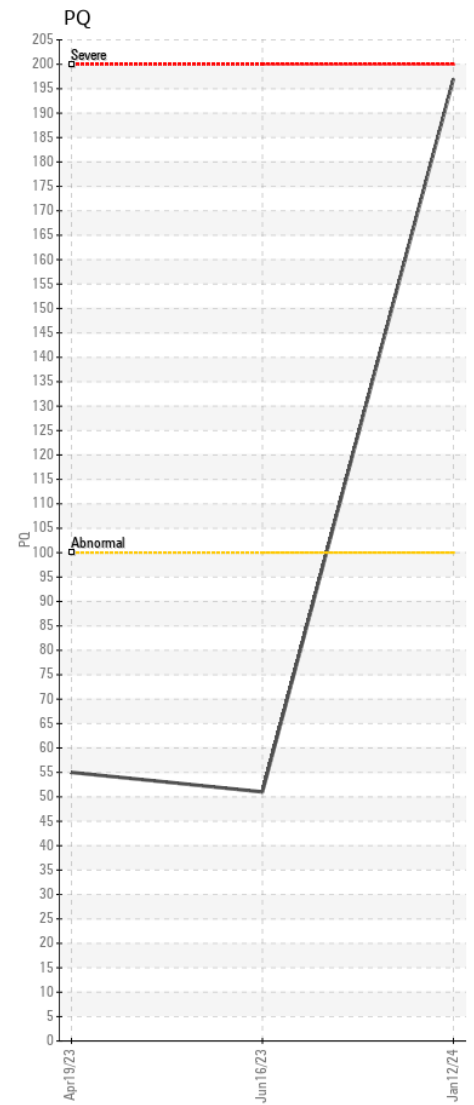
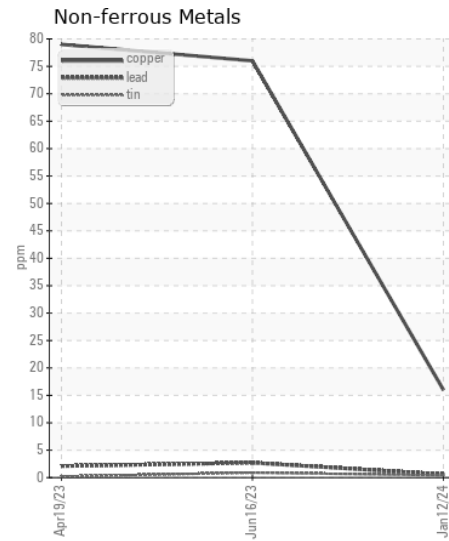
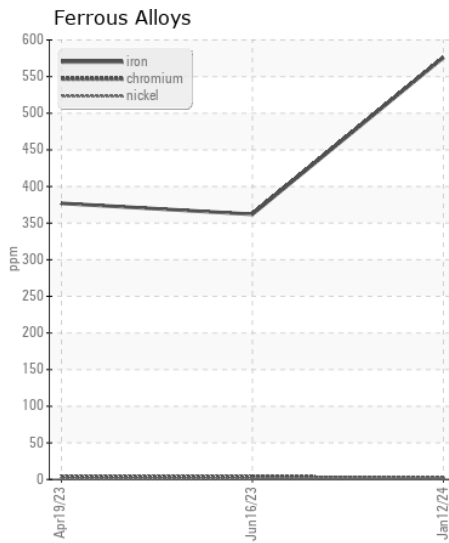
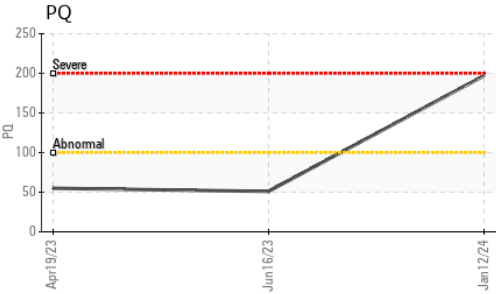
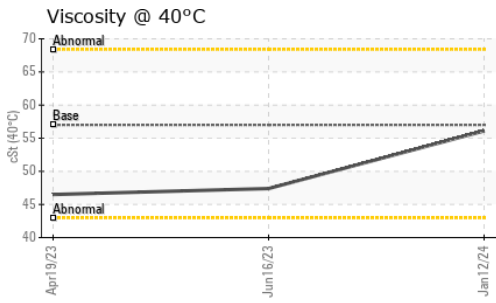
There is no indication of any contamination in the fluid.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Silicon	ppm	ASTM D5185m	>75	<b>9</b>	14	14
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	1	4
Water		WC Method	>.2	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	▲ MODER
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	>.2	<b>NEG</b>	NEG	NEG

### FLUID CONDITION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sodium	ppm	ASTM D5185m		<b>&lt;1</b>	4	<1
Boron	ppm	ASTM D5185m	6	<b>5</b>	13	10
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	0	<b>4</b>	3	2
Manganese	ppm	ASTM D5185m		<b>5</b>	4	3
Magnesium	ppm	ASTM D5185m	145	<b>92</b>	77	75
Calcium	ppm	ASTM D5185m	3570	<b>3273</b>	3315	3371
Phosphorus	ppm	ASTM D5185m	1290	<b>902</b>	1039	1067
Zinc	ppm	ASTM D5185m	1640	<b>1194</b>	1187	1228
Sulfur	ppm	ASTM D5185m		<b>3512</b>	5732	4906
Visc @ 40°C	cSt	ASTM D445	57.0	<b>56.1</b>	47.4	46.5



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0193962 **Received** : 17 Jan 2024  
**Lab Number** : 06063004 **Diagnosed** : 18 Jan 2024  
**Unique Number** : 10834386 **Diagnostician** : Sean Felton  
**Test Package** : CONST ( Additional Tests: PQ )

**JRE - GARNER**  
 4161 AUBURN CHURCH RD  
 GARNER, NC  
 US 27529

Contact: RALEIGH SHOP  
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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)

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