



Area  
**[W28216]**

Machine Id  
**JOHN DEERE 1T0310SLCKF348599**

Component  
**Hydraulic System**

Fluid  
**JOHN DEERE HYDRAU (--- QTS)**

### RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0195441</b>	JR0168727	JR0153137
Sample Date		Client Info		<b>10 May 2024</b>	09 May 2023	18 Nov 2022
Machine Age	hrs	Client Info		<b>2651</b>	2189	1961
Oil Age	hrs	Client Info		<b>0</b>	2027	1961
Filter Age	hrs	Client Info		<b>0</b>	2027	1961
Oil Changed		Client Info		<b>Not Chngd</b>	Oil Added	Not Chngd
Filter Changed		Client Info		<b>Not Chngd</b>	Changed	Not Chngd
Sample Status				<b>ABNORMAL</b>	MARGINAL	ABNORMAL

### WEAR

The iron level is marginal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
Iron	ppm	ASTM D5185m	>20	<b>▲ 37</b>	▲ 35	▲ 31
Chromium	ppm	ASTM D5185m	>10	<b>9</b>	8	7
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>10	<b>4</b>	3	4
Lead	ppm	ASTM D5185m	>10	<b>0</b>	<1	0
Copper	ppm	ASTM D5185m	>75	<b>0</b>	1	1
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</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

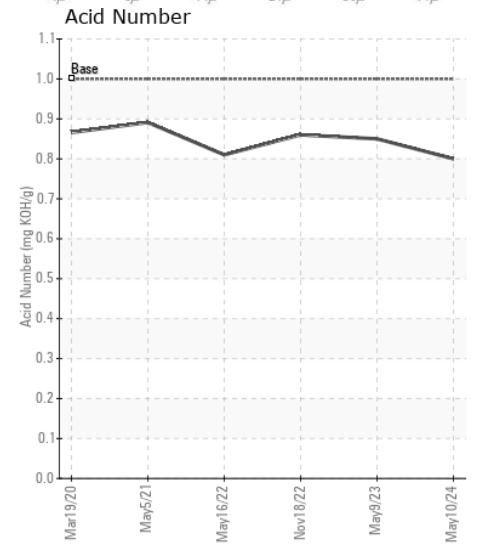
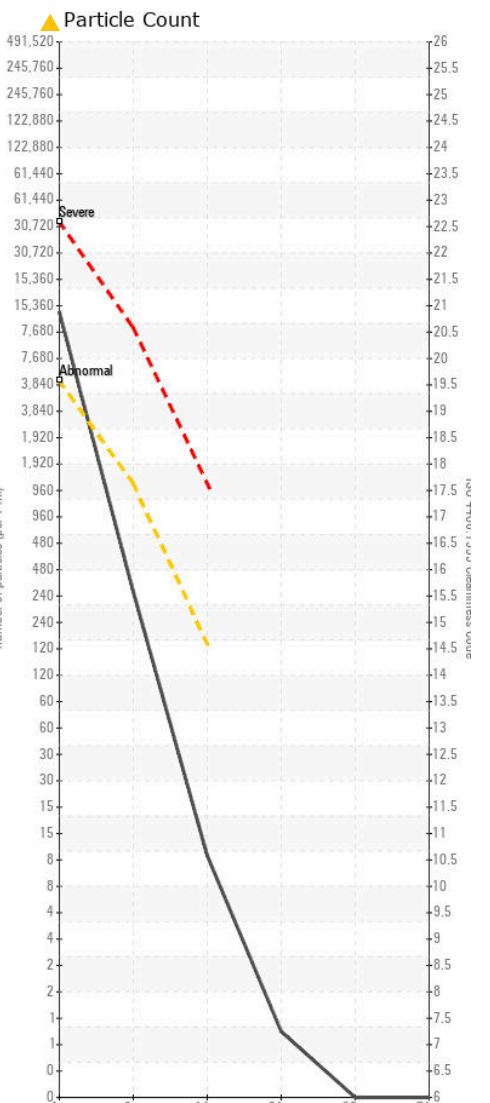
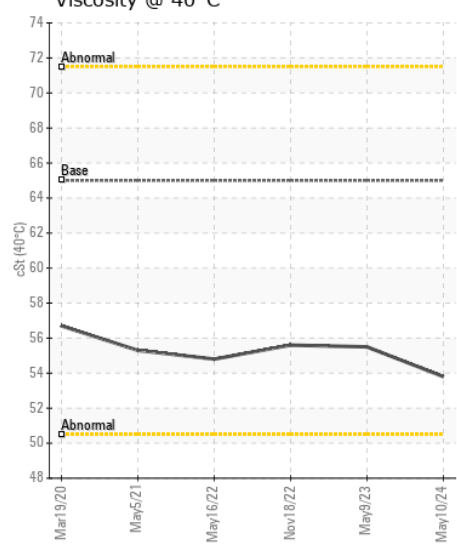
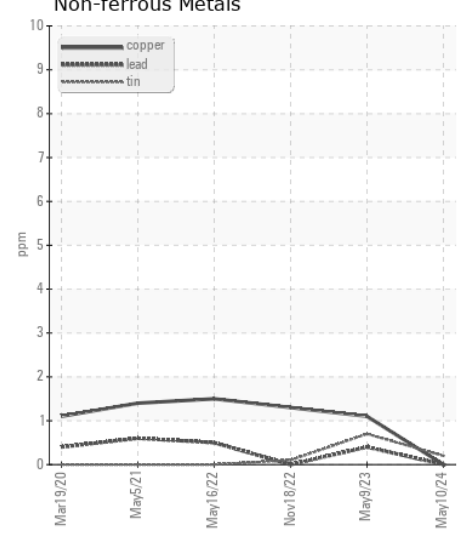
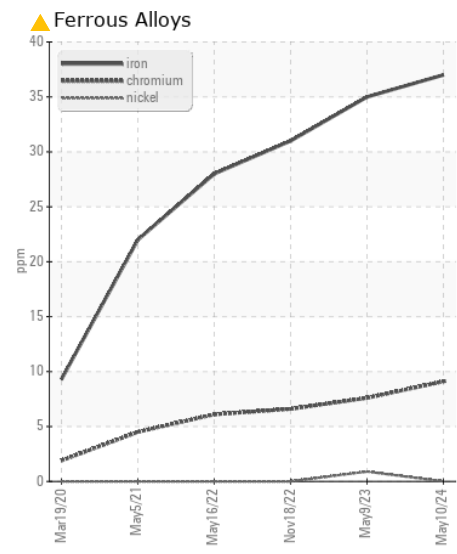
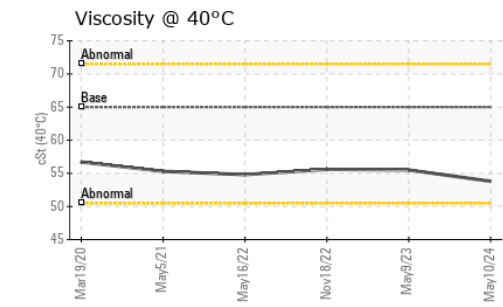
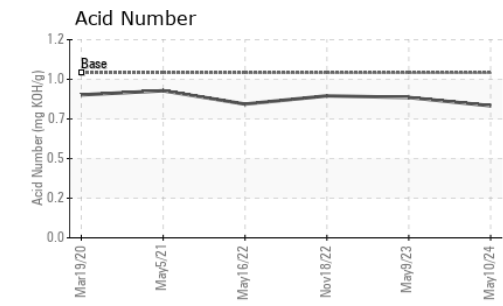
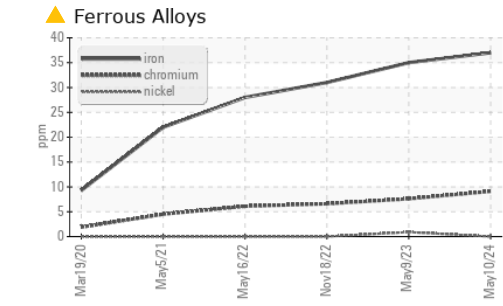
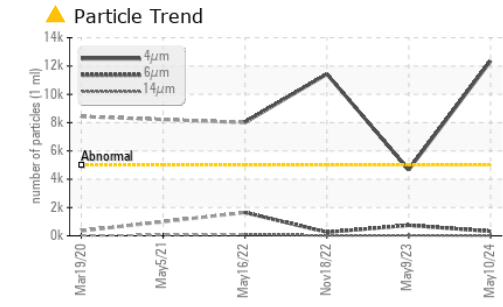
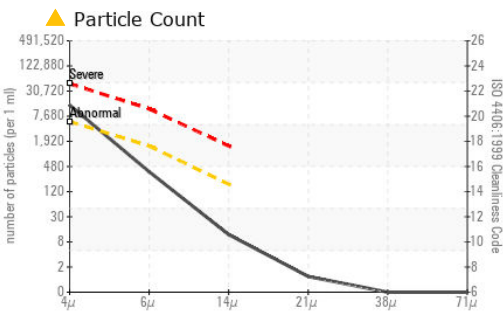
There is a high amount of silt (particulates < 6 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>20	<b>9</b>	8	7
Potassium	ppm	ASTM D5185m	>20	<b>6</b>	8	5
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>5000	<b>▲ 12344</b>	4663	▲ 11424
Particles >6µm		ASTM D7647	>1300	<b>316</b>	745	254
Particles >14µm		ASTM D7647	>160	<b>10</b>	34	19
Particles >21µm		ASTM D7647	>40	<b>1</b>	6	6
Particles >38µm		ASTM D7647	>10	<b>0</b>	0	1
Particles >71µm		ASTM D7647	>3	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>▲ 21/15/10</b>	19/17/12	▲ 21/15/11
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 AN level is acceptable for this fluid. The condition of the oils additive package is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>3</b>	6	<1
Boron	ppm	ASTM D5185m		<b>15</b>	11	6
Barium	ppm	ASTM D5185m		<b>1</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>9</b>	12	12
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>43</b>	38	36
Calcium	ppm	ASTM D5185m	87	<b>274</b>	141	143
Phosphorus	ppm	ASTM D5185m	727	<b>680</b>	618	602
Zinc	ppm	ASTM D5185m	900	<b>785</b>	866	784
Sulfur	ppm	ASTM D5185m	1500	<b>1751</b>	2012	1901
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	<b>0.80</b>	0.85	0.86
Visc @ 40°C	cSt	ASTM D445	65	<b>53.8</b>	55.5	55.6



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0195441 **Received** : 14 May 2024  
**Lab Number** : 06178622 **Tested** : 15 May 2024  
**Unique Number** : 11029948 **Diagnosed** : 16 May 2024 - Don Baldrige  
**Test Package** : CONST ( Additional Tests: PQ )

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

Certificate L2367  
 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)