



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



Machine Id  
**JOHN DEERE 650K 1T0650KXTEE271958**  
 Component  
**Hydraulic System**  
 Fluid  
**{not provided} (--- GAL)**

### 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>JR0210226</b>	JR0030749	---
Sample Date		Client Info		<b>22 May 2024</b>	09 Dec 2019	---
Machine Age	hrs	Client Info		<b>1631</b>	1091	---
Oil Age	hrs	Client Info		<b>1091</b>	0	---
Filter Age	hrs	Client Info		<b>1091</b>	0	---
Oil Changed		Client Info		<b>N/A</b>	Not Changd	---
Filter Changed		Client Info		<b>N/A</b>	Not Changd	---
Sample Status				<b>ABNORMAL</b>	ABNORMAL	---

### WEAR

The copper level is abnormal.

PQ		ASTM D8184	>50	<b>18</b>	18	---
Iron	ppm	ASTM D5185m	>23	<b>15</b>	7	---
Chromium	ppm	ASTM D5185m	>9	<b>&lt;1</b>	<1	---
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	0	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Silver	ppm	ASTM D5185m		<b>&lt;1</b>	1	---
Aluminum	ppm	ASTM D5185m	>9	<b>4</b>	2	---
Lead	ppm	ASTM D5185m	>28	<b>3</b>	3	---
Copper	ppm	ASTM D5185m	>51	<b>▲ 376</b>	<b>▲ 283</b>	---
Tin	ppm	ASTM D5185m	>5	<b>&lt;1</b>	<1	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

### CONTAMINATION

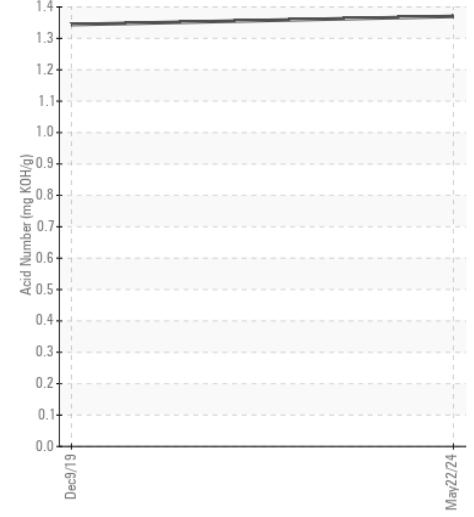
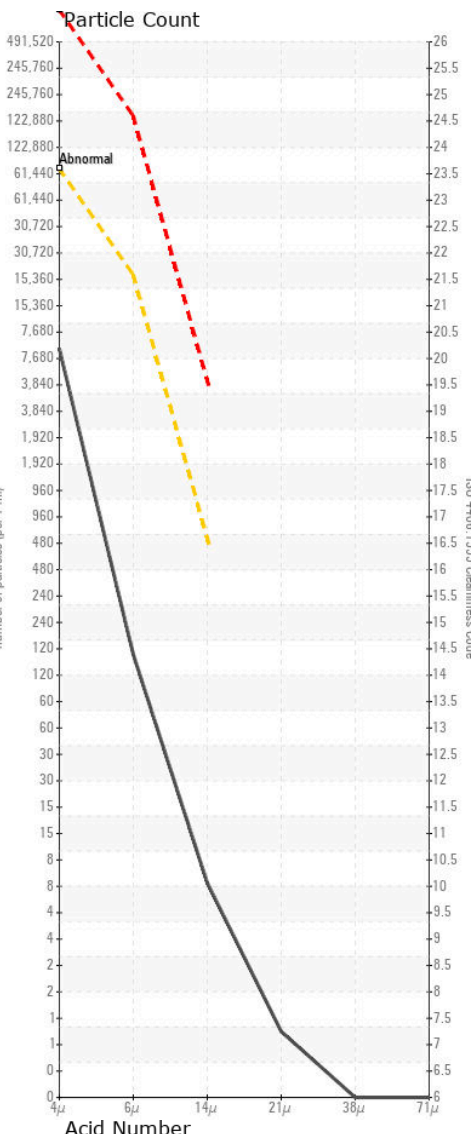
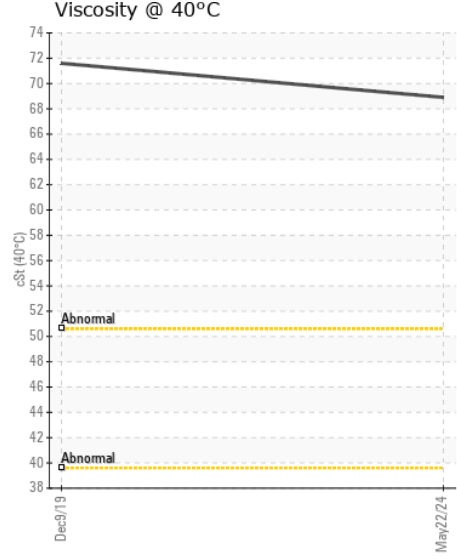
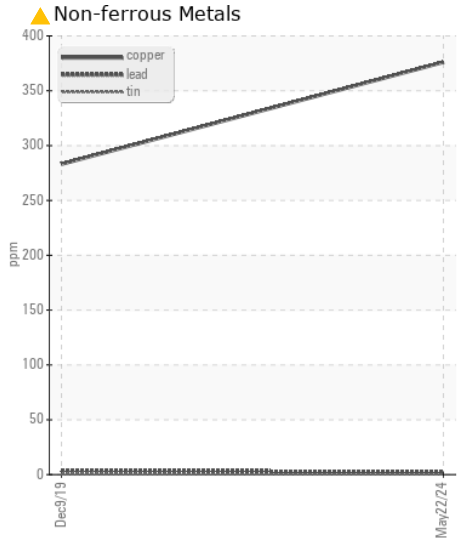
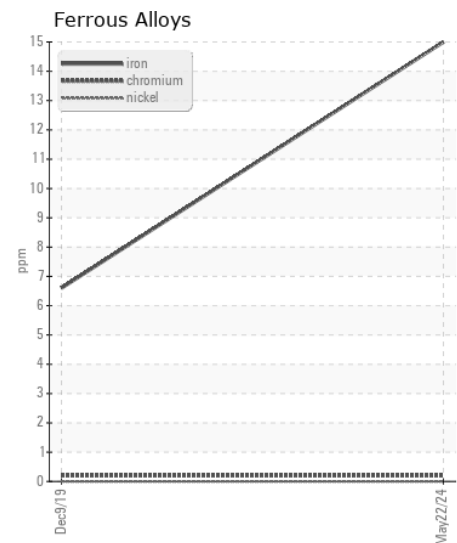
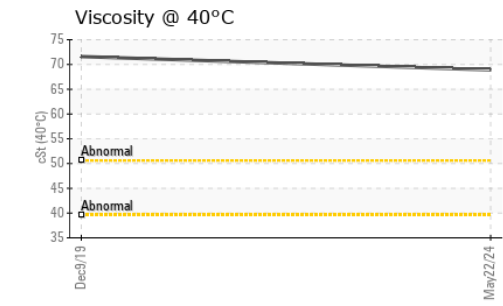
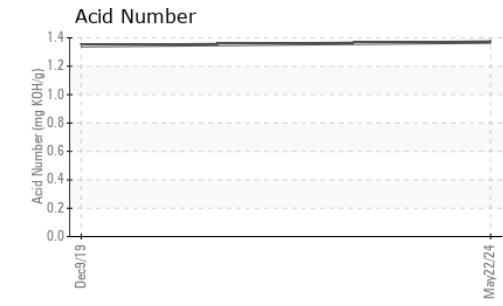
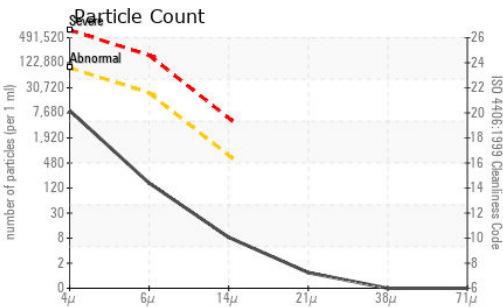
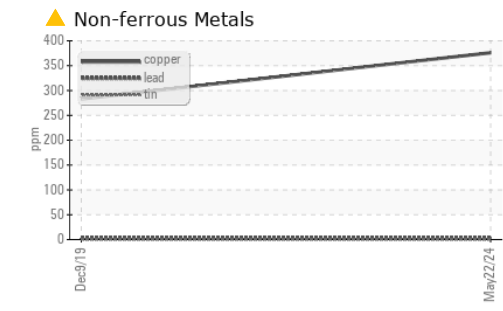
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>31	<b>13</b>	8	---
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	3	---
Water		WC Method	>0.075	<b>NEG</b>	NEG	---
Particles >4µm		ASTM D7647	>80000	<b>7611</b>	12301	---
Particles >6µm		ASTM D7647	>20000	<b>139</b>	1648	---
Particles >14µm		ASTM D7647	>640	<b>7</b>	36	---
Particles >21µm		ASTM D7647	>160	<b>1</b>	9	---
Particles >38µm		ASTM D7647	>40	<b>0</b>	1	---
Particles >71µm		ASTM D7647	>10	<b>0</b>	1	---
Oil Cleanliness		ISO 4406 (c)	>23/21/16	<b>20/14/10</b>	21/18/12	---
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	>0.075	<b>NEG</b>	0.2%	---

### FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m	>21	<b>3</b>	1	---
Boron	ppm	ASTM D5185m		<b>198</b>	198	---
Barium	ppm	ASTM D5185m		<b>0</b>	<1	---
Molybdenum	ppm	ASTM D5185m		<b>133</b>	145	---
Manganese	ppm	ASTM D5185m		<b>1</b>	<1	---
Magnesium	ppm	ASTM D5185m		<b>571</b>	560	---
Calcium	ppm	ASTM D5185m		<b>2014</b>	1929	---
Phosphorus	ppm	ASTM D5185m		<b>980</b>	932	---
Zinc	ppm	ASTM D5185m		<b>1149</b>	1129	---
Sulfur	ppm	ASTM D5185m		<b>3793</b>	2995	---
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>1.37</b>	1.344	---
Visc @ 40°C	cSt	ASTM D445		<b>68.9</b>	71.6	---



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0210226 **Received** : 24 May 2024  
**Lab Number** : 06190965 **Tested** : 30 May 2024  
**Unique Number** : 11047717 **Diagnosed** : 30 May 2024 - Don Baldrige  
**Test Package** : CONST ( Additional Tests: PQ )

**JRE - STEPHENSON**  
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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)