



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



Area  
**[16W15177]**  
 Machine Id  
**JOHN DEERE 650K-II 1T0650KKCNF430135**  
 Component  
**Hydraulic System**  
 Fluid  
**JOHN DEERE HYDRAU (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor. ( Customer Sample Comment: 16W15177 )

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0196215</b>	JR0185563	JR0173688
Sample Date		Client Info		<b>18 Dec 2023</b>	06 Sep 2023	18 May 2023
Machine Age	hrs	Client Info		<b>1970</b>	1561	1027
Oil Age	hrs	Client Info		<b>1970</b>	1561	1027
Filter Age	hrs	Client Info		<b>1970</b>	1561	1027
Oil Changed		Client Info		<b>Changed</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>Changed</b>	Not Changd	Not Changd
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

PQ		ASTM D8184	>50	<b>14</b>	12	13
Iron	ppm	ASTM D5185m	>23	<b>7</b>	6	6
Chromium	ppm	ASTM D5185m	>9	<b>&lt;1</b>	0	<1
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>9	<b>&lt;1</b>	0	0
Lead	ppm	ASTM D5185m	>28	<b>&lt;1</b>	0	<1
Copper	ppm	ASTM D5185m	>51	<b>7</b>	6	5
Tin	ppm	ASTM D5185m	>5	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

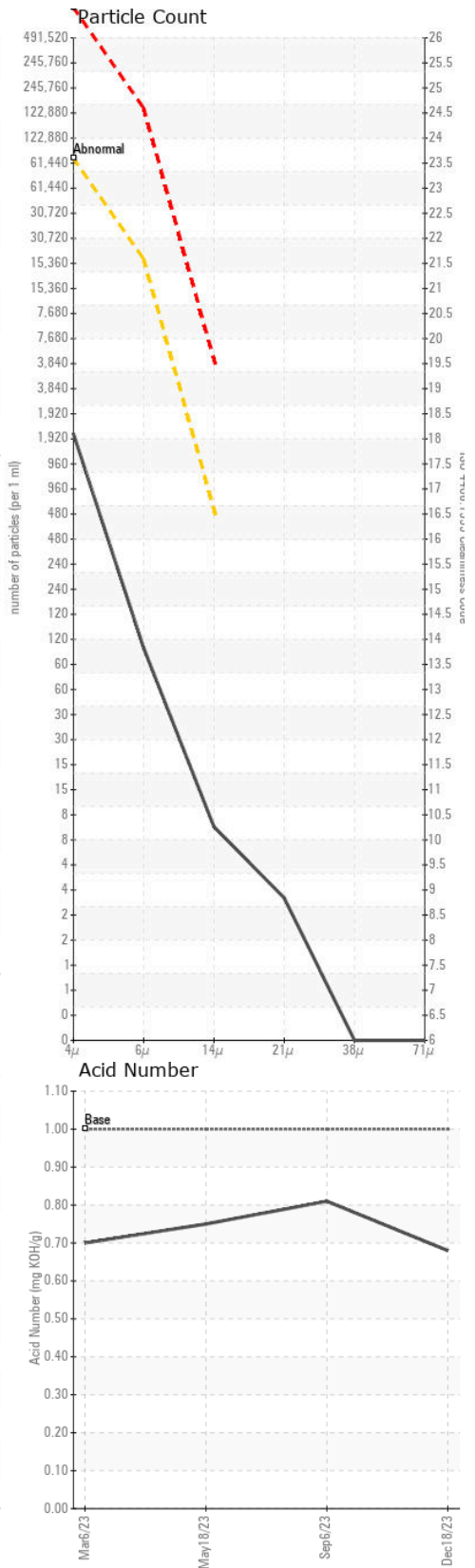
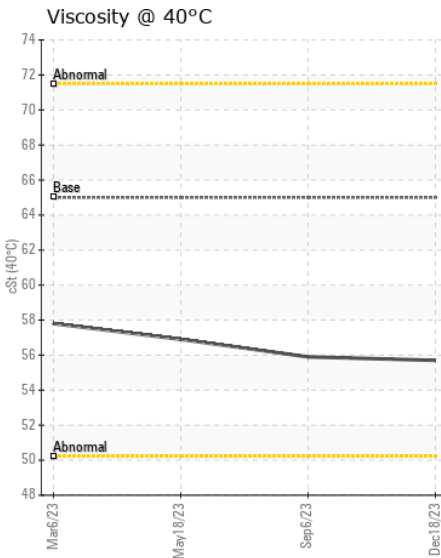
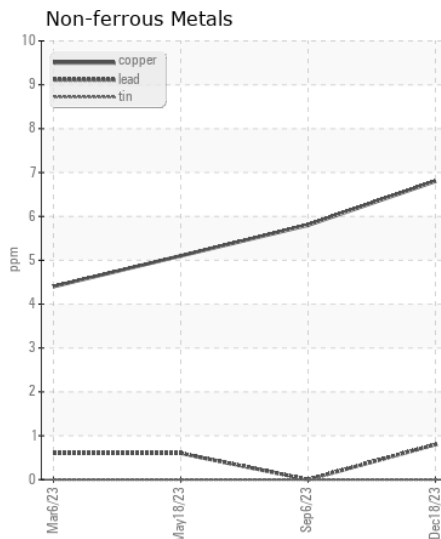
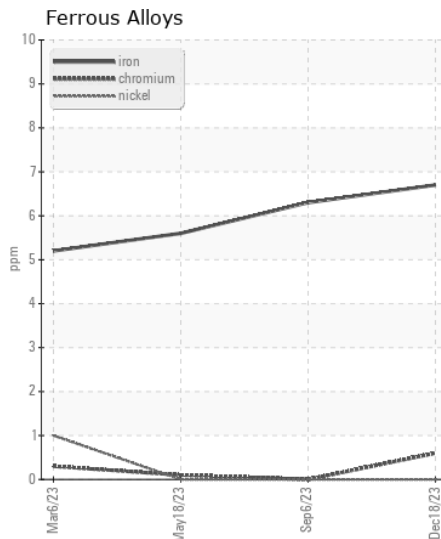
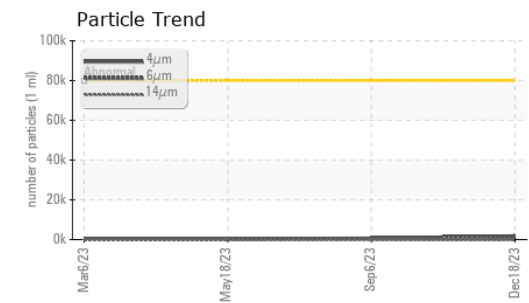
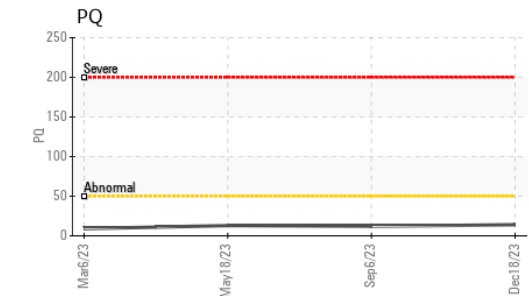
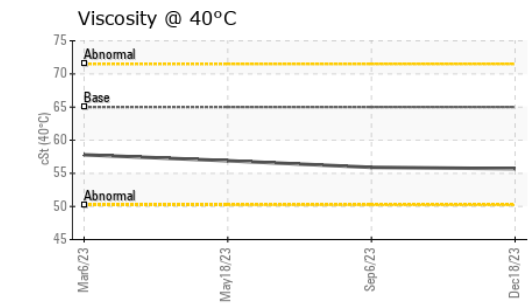
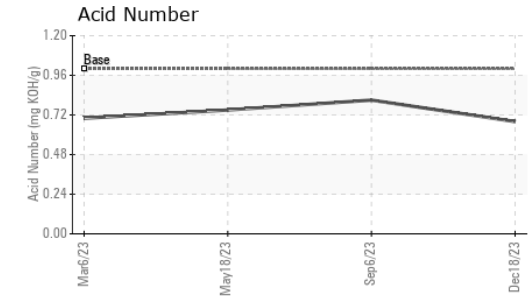
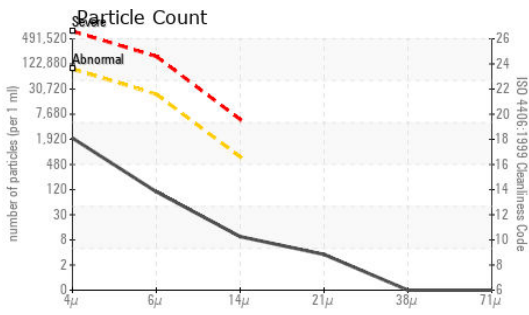
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>31	<b>&lt;1</b>	<1	<1
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	<1	2
Water		WC Method	>0.075	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>80000	<b>1801</b>	677	394
Particles >6µm		ASTM D7647	>20000	<b>94</b>	114	51
Particles >14µm		ASTM D7647	>640	<b>8</b>	19	7
Particles >21µm		ASTM D7647	>160	<b>3</b>	4	2
Particles >38µm		ASTM D7647	>40	<b>0</b>	1	0
Particles >71µm		ASTM D7647	>10	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>23/21/16	<b>18/14/10</b>	17/14/11	16/13/10
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	LIGHT
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	>0.075	<b>NEG</b>	NEG	NEG

### FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m	>21	<b>1</b>	<1	0
Boron	ppm	ASTM D5185m		<b>0</b>	0	0
Barium	ppm	ASTM D5185m		<b>0</b>	7	0
Molybdenum	ppm	ASTM D5185m		<b>0</b>	0	<1
Manganese	ppm	ASTM D5185m		<b>0</b>	0	0
Magnesium	ppm	ASTM D5185m		<b>&lt;1</b>	5	1
Calcium	ppm	ASTM D5185m	87	<b>79</b>	85	86
Phosphorus	ppm	ASTM D5185m	727	<b>688</b>	610	642
Zinc	ppm	ASTM D5185m	900	<b>916</b>	821	857
Sulfur	ppm	ASTM D5185m	1500	<b>1842</b>	1881	1658
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	<b>0.68</b>	0.81	0.75
Visc @ 40°C	cSt	ASTM D445	65	<b>55.7</b>	55.9	56.9



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0196215 **Received** : 21 Dec 2023  
**Lab Number** : 06042645 **Diagnosed** : 26 Dec 2023  
**Unique Number** : 10803253 **Diagnostician** : Don Baldrige  
**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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