



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



Machine Id  
**JOHN DEERE 650K 1T0650KKPJF338939**  
 Component  
**Hydraulic System**  
 Fluid  
**JOHN DEERE HYDRAU (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0214388</b>	JR0063301	---
Sample Date		Client Info		<b>09 May 2024</b>	24 May 2021	---
Machine Age	hrs	Client Info		<b>2829</b>	1470	---
Oil Age	hrs	Client Info		<b>2829</b>	0	---
Filter Age	hrs	Client Info		<b>2829</b>	0	---
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	---
Filter Changed		Client Info		<b>Not Changd</b>	Not Changd	---
Sample Status				<b>NORMAL</b>	NORMAL	---

### WEAR

All component wear rates are normal.

PQ		ASTM D8184	>50	<b>13</b>	17	---
Iron	ppm	ASTM D5185m	>23	<b>13</b>	12	---
Chromium	ppm	ASTM D5185m	>9	<b>3</b>	2	---
Nickel	ppm	ASTM D5185m	>5	<b>&lt;1</b>	<1	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Silver	ppm	ASTM D5185m		<b>0</b>	<1	---
Aluminum	ppm	ASTM D5185m	>9	<b>2</b>	2	---
Lead	ppm	ASTM D5185m	>28	<b>2</b>	1	---
Copper	ppm	ASTM D5185m	>51	<b>21</b>	16	---
Tin	ppm	ASTM D5185m	>5	<b>&lt;1</b>	<1	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

### CONTAMINATION

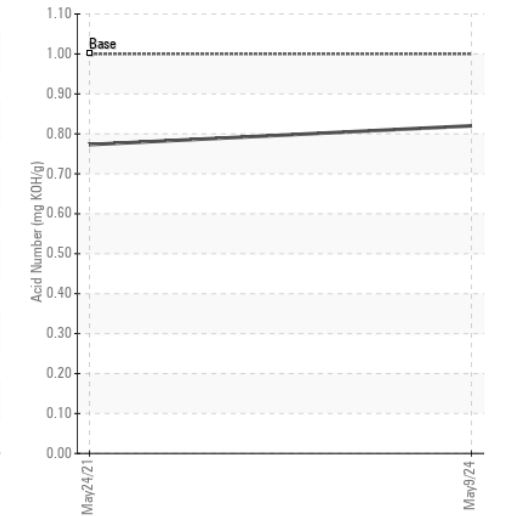
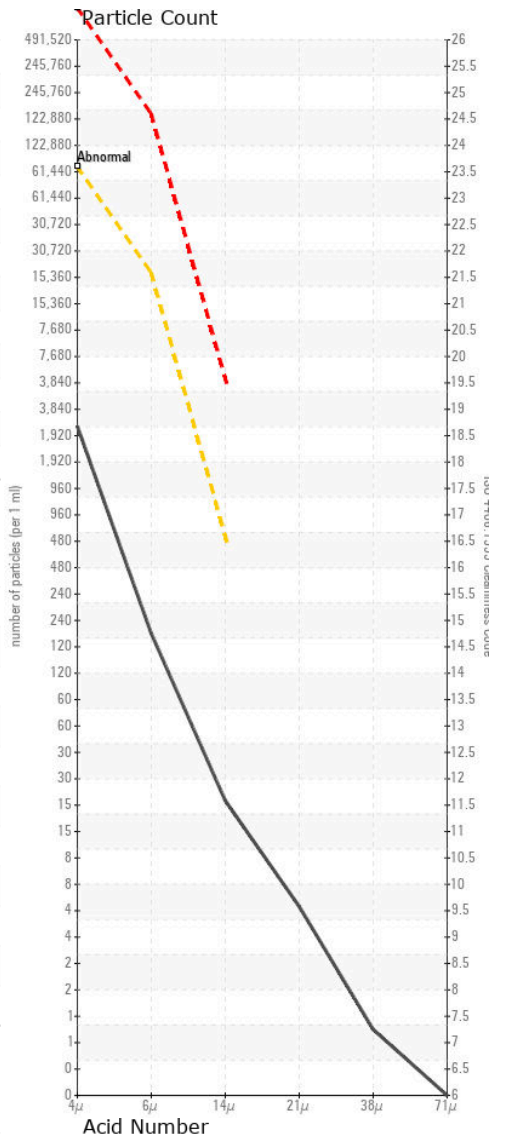
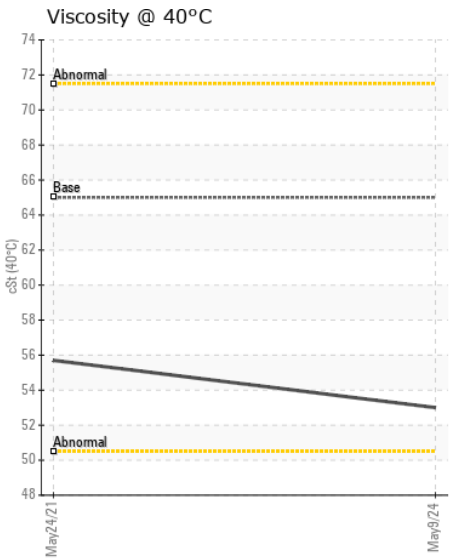
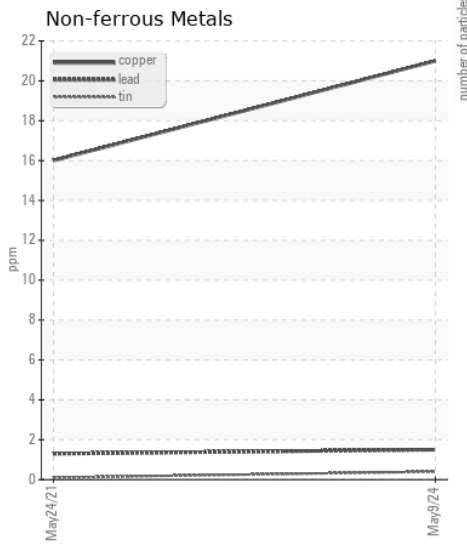
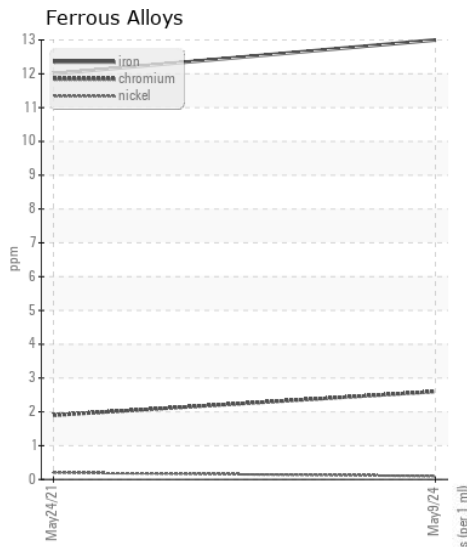
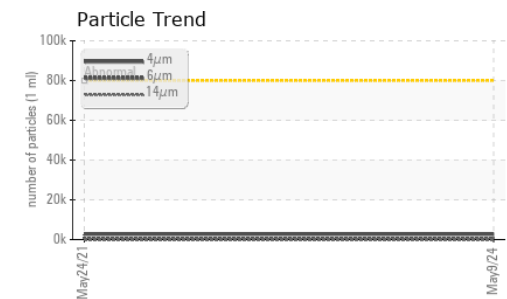
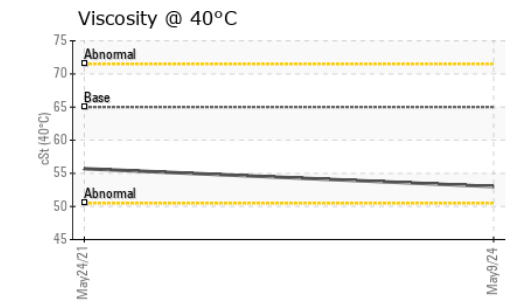
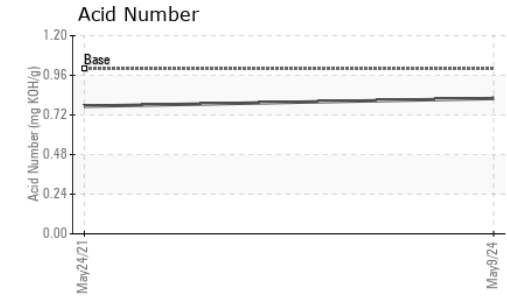
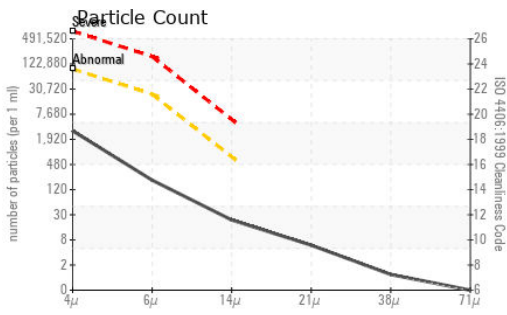
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Silicon	ppm	ASTM D5185m	>31	<b>4</b>	3	---
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	2	---
Water		WC Method	>0.075	<b>NEG</b>	NEG	---
Particles >4µm		ASTM D7647	>80000	<b>2686</b>	2696	---
Particles >6µm		ASTM D7647	>20000	<b>178</b>	169	---
Particles >14µm		ASTM D7647	>640	<b>20</b>	10	---
Particles >21µm		ASTM D7647	>160	<b>5</b>	3	---
Particles >38µm		ASTM D7647	>40	<b>1</b>	0	---
Particles >71µm		ASTM D7647	>10	<b>0</b>	0	---
Oil Cleanliness		ISO 4406 (c)	>23/21/16	<b>19/15/11</b>	19/15/10	---
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>	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>0</b>	0	---
Boron	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Barium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	---
Magnesium	ppm	ASTM D5185m		<b>2</b>	<1	---
Calcium	ppm	ASTM D5185m	87	<b>237</b>	86	---
Phosphorus	ppm	ASTM D5185m	727	<b>638</b>	615	---
Zinc	ppm	ASTM D5185m	900	<b>807</b>	795	---
Sulfur	ppm	ASTM D5185m	1500	<b>1741</b>	1470	---
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	<b>0.82</b>	0.773	---
Visc @ 40°C	cSt	ASTM D445	65	<b>53.0</b>	55.7	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : JR0214388

Lab Number : 06175362

Unique Number : 11021415

Test Package : CONST ( Additional Tests: PQ )

Received : 10 May 2024

Tested : 13 May 2024

Diagnosed : 13 May 2024 - Wes Davis

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)

JRE - MANASSAS PARK

9107 OWENS DRIVE

MANASSAS PARK, VA

US 20111

Contact: DON VEST

dvest@jamesriverequipment.com

T: (703)631-8500

F: (703)631-4715