



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



Machine Id  
**JOHN DEERE 824K 1DW824KXAJF692402**  
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>JR0209101</b>	JR0202664	JR0183007
Sample Date		Client Info		<b>10 Apr 2024</b>	26 Jan 2024	31 Oct 2023
Machine Age	hrs	Client Info		<b>6000</b>	5509	4996
Oil Age	hrs	Client Info		<b>4529</b>	4551	973
Filter Age	hrs	Client Info		<b>0</b>	0	973
Oil Changed		Client Info		<b>Not Chngd</b>	Not Chngd	Not Chngd
Filter Changed		Client Info		<b>Changed</b>	Not Chngd	Not Chngd
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

PQ		ASTM D8184	>50	<b>23</b>	16	15
Iron	ppm	ASTM D5185m	>71	<b>21</b>	24	22
Chromium	ppm	ASTM D5185m	>11	<b>10</b>	11	10
Nickel	ppm	ASTM D5185m	>6	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Aluminum	ppm	ASTM D5185m	>11	<b>2</b>	3	<1
Lead	ppm	ASTM D5185m	>13	<b>&lt;1</b>	<1	1
Copper	ppm	ASTM D5185m	>21	<b>12</b>	13	14
Tin	ppm	ASTM D5185m	>5	<b>&lt;1</b>	0	0
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

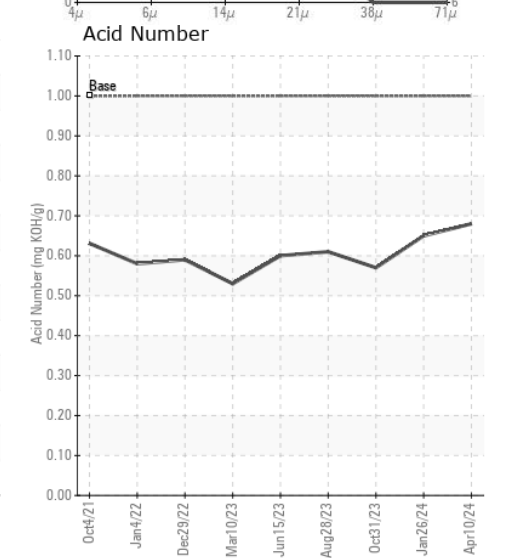
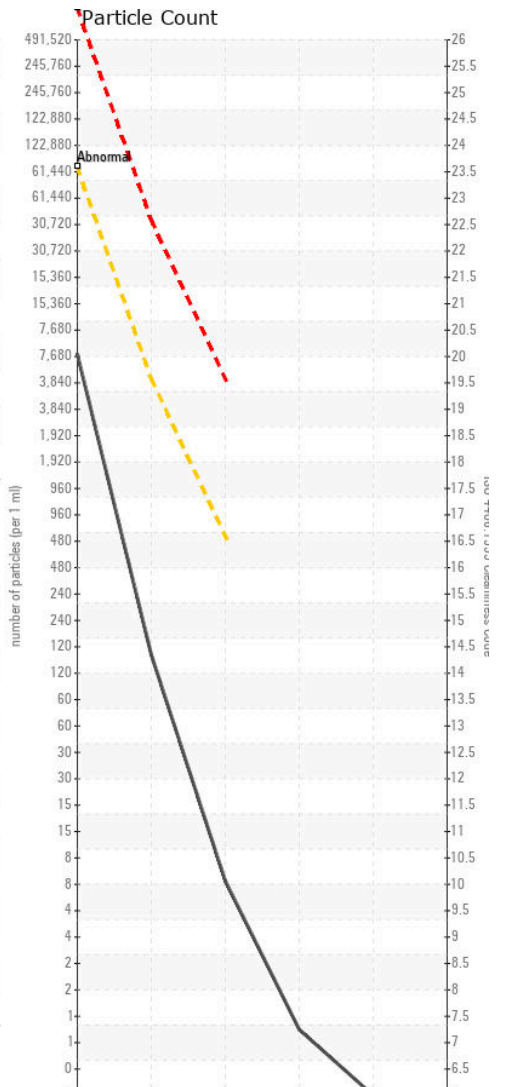
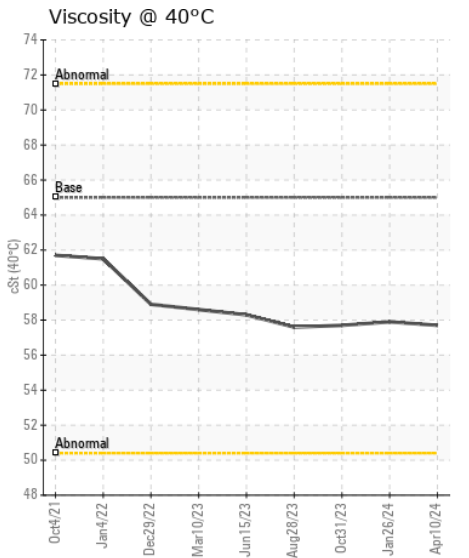
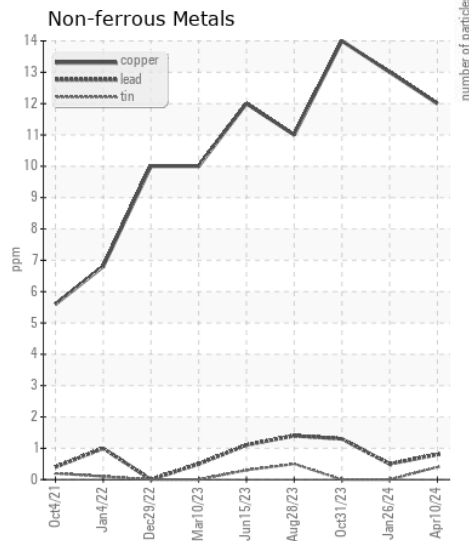
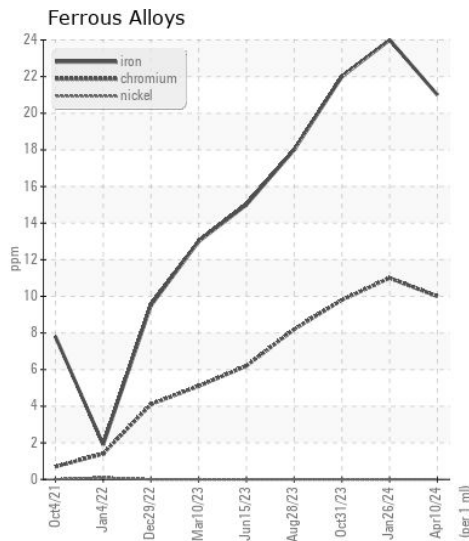
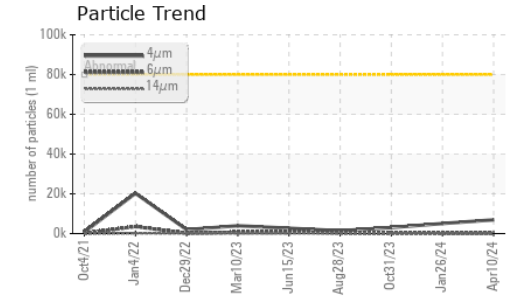
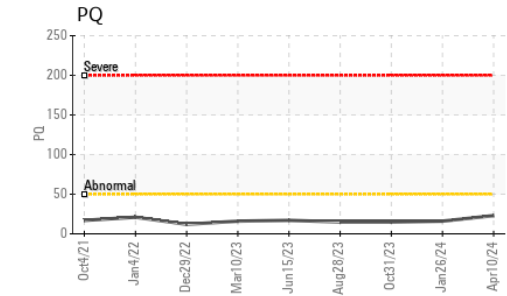
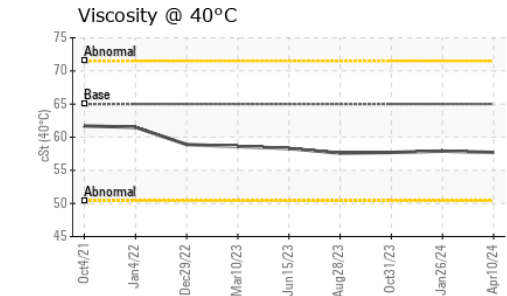
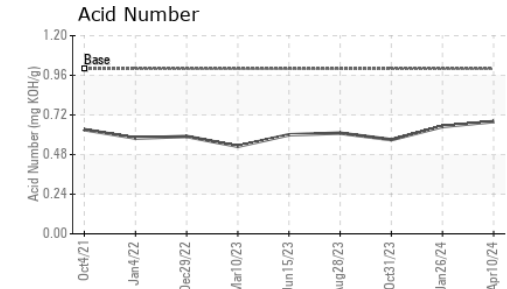
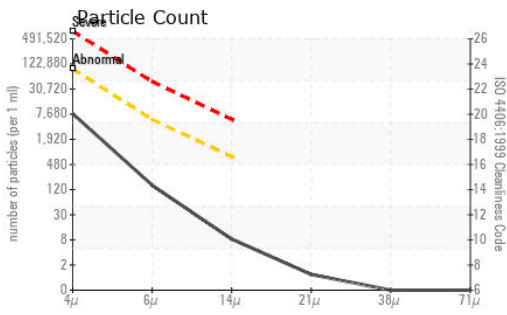
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>24	<b>3</b>	5	5
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	4	4
Water		WC Method	>0.075	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>80000	<b>6908</b>	5057	3018
Particles >6µm		ASTM D7647	>5000	<b>135</b>	97	106
Particles >14µm		ASTM D7647	>640	<b>7</b>	11	13
Particles >21µm		ASTM D7647	>160	<b>1</b>	4	4
Particles >38µm		ASTM D7647	>40	<b>0</b>	1	1
Particles >71µm		ASTM D7647	>10	<b>0</b>	1	0
Oil Cleanliness		ISO 4406 (c)	>23/19/16	<b>20/14/10</b>	20/14/11	19/14/11
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	>0.075	<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>3</b>	6	0
Boron	ppm	ASTM D5185m		<b>0</b>	0	0
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Manganese	ppm	ASTM D5185m		<b>0</b>	0	0
Magnesium	ppm	ASTM D5185m		<b>2</b>	3	2
Calcium	ppm	ASTM D5185m	87	<b>93</b>	108	100
Phosphorus	ppm	ASTM D5185m	727	<b>655</b>	720	683
Zinc	ppm	ASTM D5185m	900	<b>807</b>	968	912
Sulfur	ppm	ASTM D5185m	1500	<b>1818</b>	1960	1918
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	<b>0.68</b>	0.65	0.57
Visc @ 40°C	cSt	ASTM D445	65	<b>57.7</b>	57.9	57.7



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0209101 **Received** : 10 Apr 2024  
**Lab Number** : 06145254 **Tested** : 12 Apr 2024  
**Unique Number** : 10970062 **Diagnosed** : 13 Apr 2024 - Don Baldrige  
**Test Package** : CONST ( Additional Tests: PQ )

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

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Contact: RALEIGH SHOP  
 sean.betts@jamesriverequipment.com; catherine.anastasio@wearcheck.com

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

T: (919)614-2260

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

F: (919)779-5432