



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



Machine Id  
**JOHN DEERE 644K 1DW644KHCDE652296**

Component  
**Hydraulic System**

Fluid  
**{not provided} (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0198545</b>	JR0171161	JR0162097
Sample Date		Client Info		<b>02 Jan 2024</b>	19 Jun 2023	19 Mar 2023
Machine Age	hrs	Client Info		<b>14723</b>	14096	13514
Oil Age	hrs	Client Info		<b>627</b>	13514	500
Filter Age	hrs	Client Info		<b>0</b>	0	500
Oil Changed		Client Info		<b>Not Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Not Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	ATTENTION	NORMAL

### WEAR

All component wear rates are normal.

PQ		ASTM D8184	>50	<b>17</b>	15	9
Iron	ppm	ASTM D5185m	>71	<b>11</b>	4	0
Chromium	ppm	ASTM D5185m	>11	<b>2</b>	0	0
Nickel	ppm	ASTM D5185m	>6	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>11	<b>&lt;1</b>	<1	0
Lead	ppm	ASTM D5185m	>13	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>21	<b>1</b>	<1	0
Tin	ppm	ASTM D5185m	>5	<b>0</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

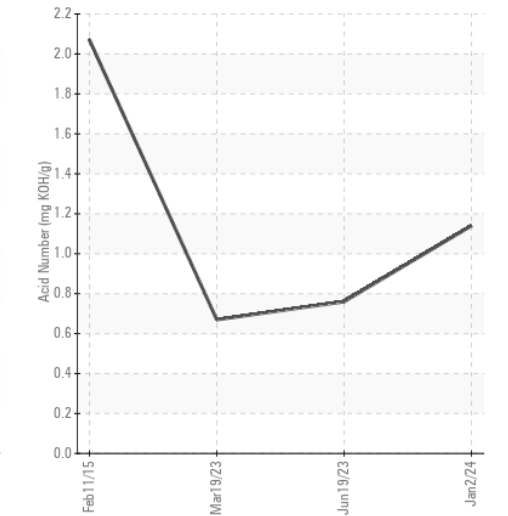
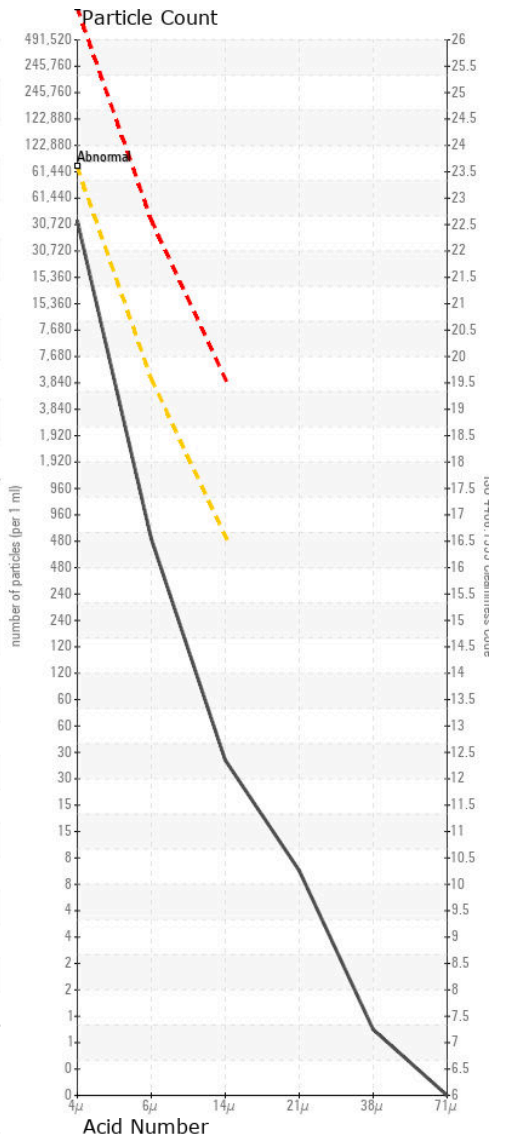
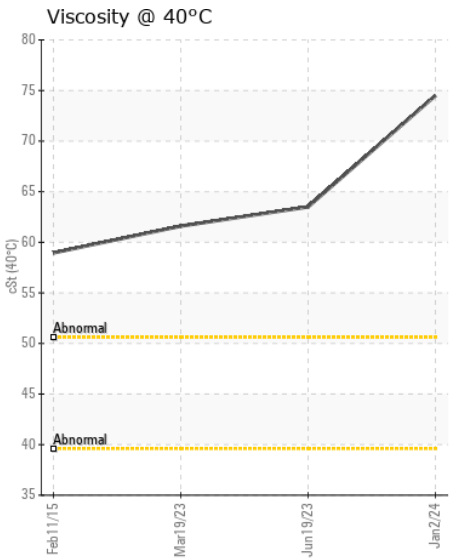
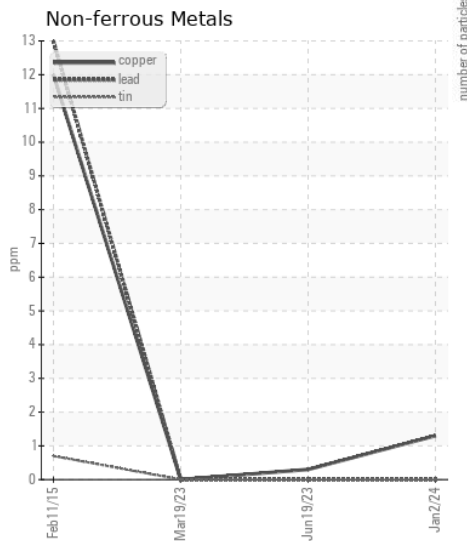
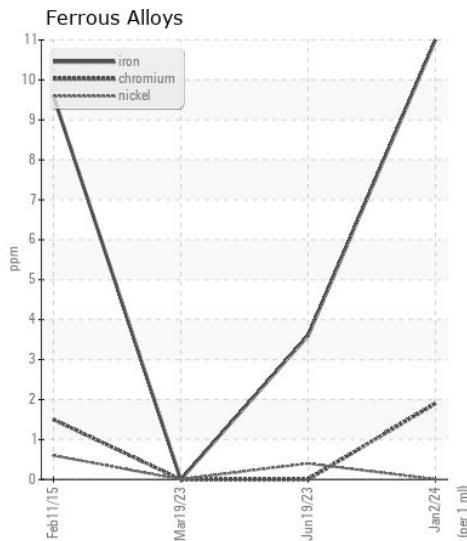
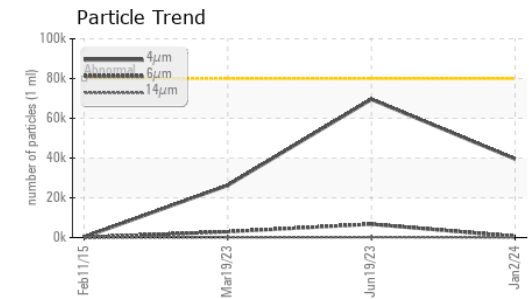
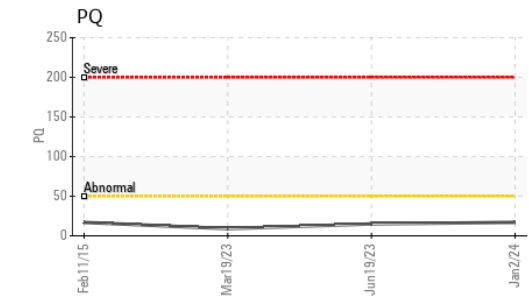
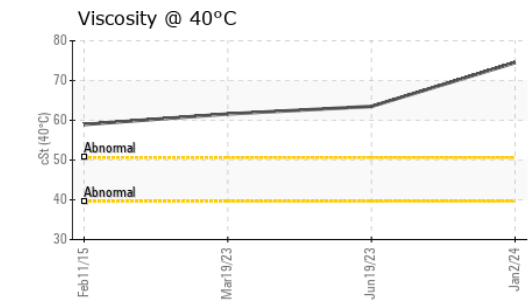
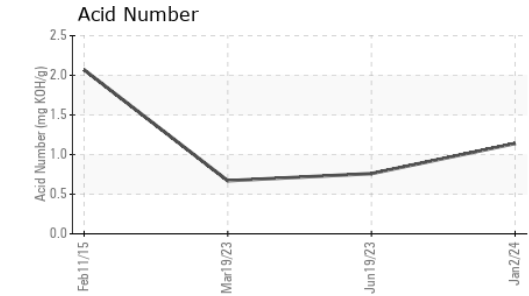
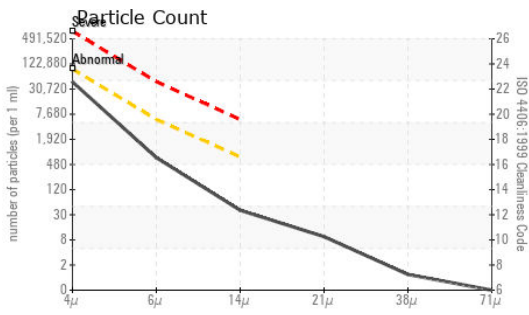
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>24	<b>7</b>	<1	<1
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	<1	0
Water		WC Method	>0.075	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>80000	<b>39507</b>	69516	26269
Particles >6µm		ASTM D7647	>5000	<b>616</b>	▲ 6747	2935
Particles >14µm		ASTM D7647	>640	<b>34</b>	195	100
Particles >21µm		ASTM D7647	>160	<b>8</b>	42	24
Particles >38µm		ASTM D7647	>40	<b>1</b>	2	0
Particles >71µm		ASTM D7647	>10	<b>0</b>	1	0
Oil Cleanliness		ISO 4406 (c)	>23/19/16	<b>22/16/12</b>	▲ 23/20/15	22/19/14
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>	0	0
Boron	ppm	ASTM D5185m		<b>61</b>	8	1
Barium	ppm	ASTM D5185m		<b>0</b>	1	0
Molybdenum	ppm	ASTM D5185m		<b>38</b>	8	2
Manganese	ppm	ASTM D5185m		<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185m		<b>430</b>	26	8
Calcium	ppm	ASTM D5185m		<b>1970</b>	140	102
Phosphorus	ppm	ASTM D5185m		<b>829</b>	665	624
Zinc	ppm	ASTM D5185m		<b>955</b>	874	861
Sulfur	ppm	ASTM D5185m		<b>3599</b>	1888	1574
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>1.14</b>	0.76	0.67
Visc @ 40°C	cSt	ASTM D445		<b>74.5</b>	63.5	61.6



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0198545 **Received** : 12 Jan 2024  
**Lab Number** : 06059196 **Diagnosed** : 15 Jan 2024  
**Unique Number** : 10830578 **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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