



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



Area  
**[W66812]**  
 Machine Id  
**JOHN DEERE 624K-II 1DW624KZKJF685923**  
 Component  
**Rear Axle**  
 Fluid  
**JOHN DEERE HY-GARD HYD/TRANS (5 GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor. ( Customer Sample Comment: W66812 )

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0215401</b>	JR0193040	JR0171002
Sample Date		Client Info		<b>20 May 2024</b>	05 Dec 2023	17 Jul 2023
Machine Age	hrs	Client Info		<b>12138</b>	11211	10560
Oil Age	hrs	Client Info		<b>12138</b>	11211	10560
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>Changed</b>	Changed	Not Changd
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

PQ		ASTM D8184		<b>18</b>	12	12
Iron	ppm	ASTM D5185m	>750	<b>27</b>	23	18
Chromium	ppm	ASTM D5185m	>11	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>21	<b>0</b>	0	<1
Lead	ppm	ASTM D5185m	>49	<b>8</b>	6	3
Copper	ppm	ASTM D5185m	>101	<b>13</b>	8	4
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

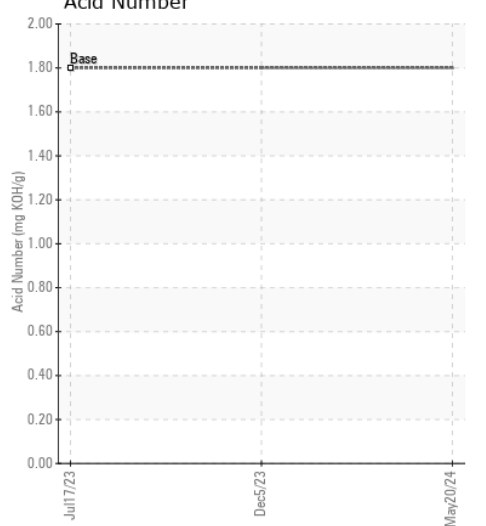
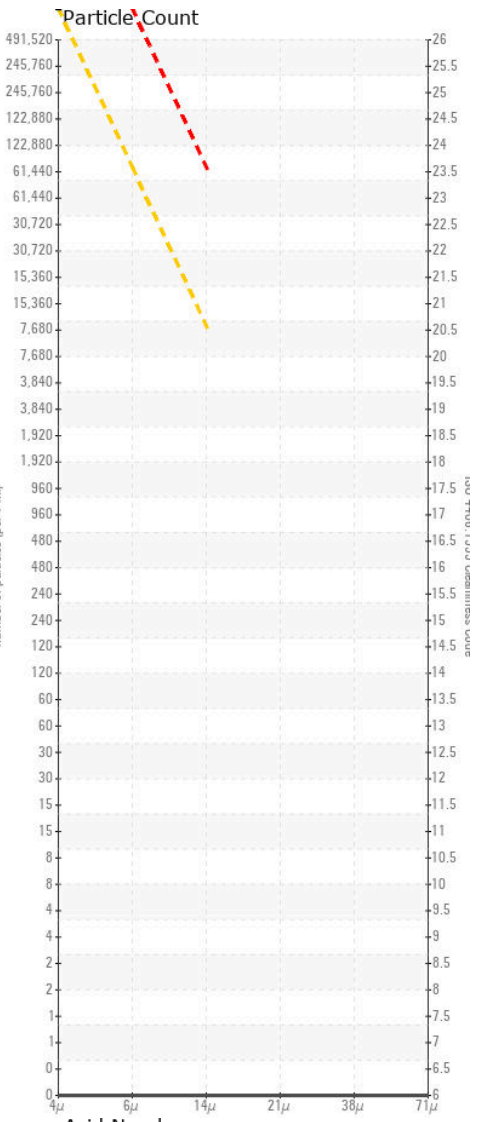
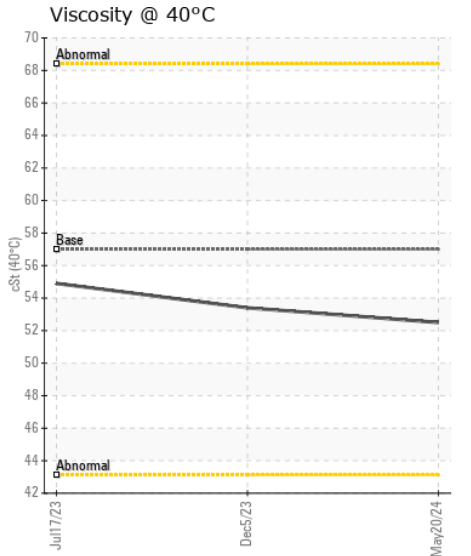
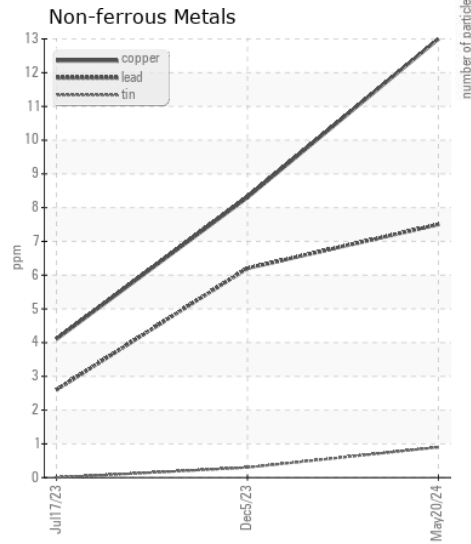
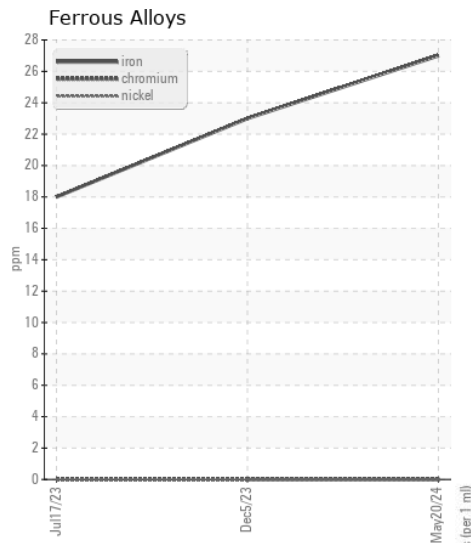
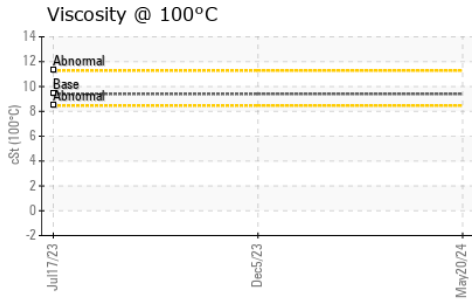
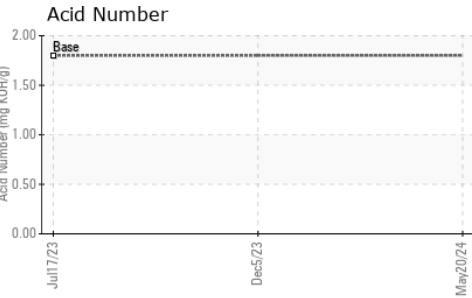
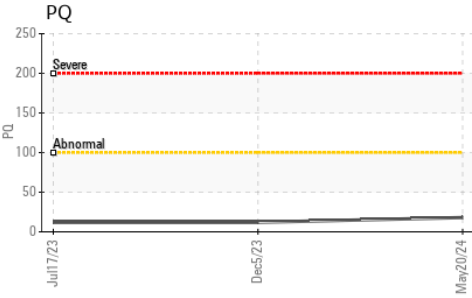
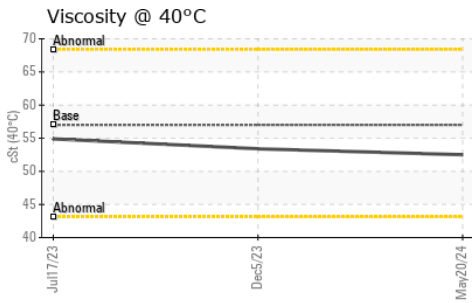
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185m	>31	<b>3</b>	4	3
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	0
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
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	>0.1	<b>NEG</b>	NEG	NEG

### FLUID CONDITION

The condition of the fluid is acceptable for the time in service.

Sodium	ppm	ASTM D5185m	>51	<b>2</b>	2	1
Boron	ppm	ASTM D5185m	6	<b>0</b>	<1	2
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	0	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m		<b>1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	145	<b>95</b>	93	100
Calcium	ppm	ASTM D5185m	3570	<b>3191</b>	3408	3526
Phosphorus	ppm	ASTM D5185m	1290	<b>1011</b>	1028	1059
Zinc	ppm	ASTM D5185m	1640	<b>1180</b>	1186	1244
Sulfur	ppm	ASTM D5185m		<b>3775</b>	3426	4358
Visc @ 40°C	cSt	ASTM D445	57.0	<b>52.5</b>	53.4	54.9



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0215401 **Received** : 29 May 2024  
**Lab Number** : 06194249 **Tested** : 03 Jun 2024  
**Unique Number** : 11056372 **Diagnosed** : 03 Jun 2024 - Jonathan Hester  
**Test Package** : CONST ( Additional Tests: FT-IR, KV100, PQ, PrtCount )

**CARLTON'S BACKHOE**  
 9550 STATESVILLE ROAD  
 CHARLOTTE, NC  
 US 28269  
 Contact: LEO

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)

T: (704)547-0211

F: