



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



Machine Id  
**JOHN DEERE 824K 1DW824KXAJF692402**  
Component  
**Front Differential**  
Fluid  
**JOHN DEERE HY-GARD HYD/TRANS (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0209099</b>	JR0202661	JR0183003
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	971
Filter Age	hrs	Client Info		<b>0</b>	0	971
Oil Changed		Client Info		<b>Changed</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>Changed</b>	Not Changd	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		<b>23</b>	19	10
Iron	ppm	ASTM D5185m	>1501	<b>55</b>	49	43
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>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>21	<b>2</b>	<1	0
Lead	ppm	ASTM D5185m	>51	<b>17</b>	18	16
Copper	ppm	ASTM D5185m	>101	<b>8</b>	6	5
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	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

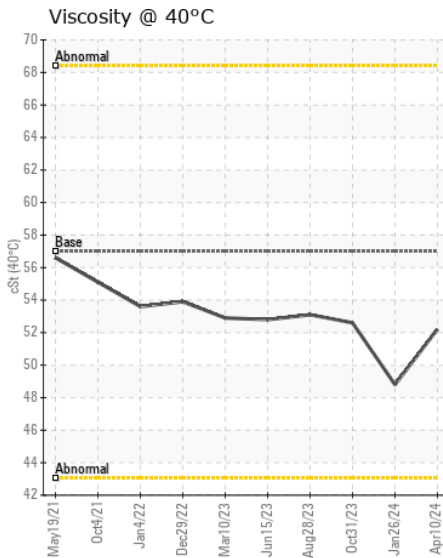
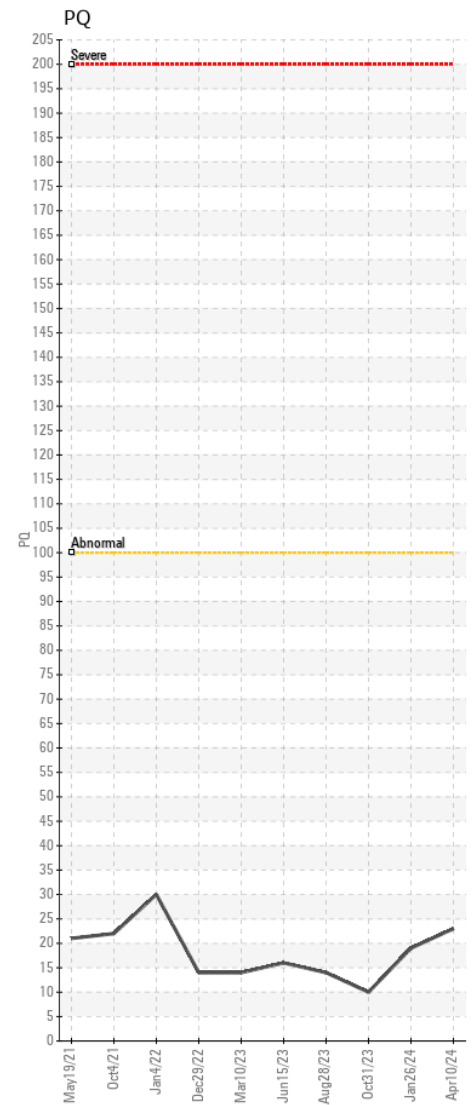
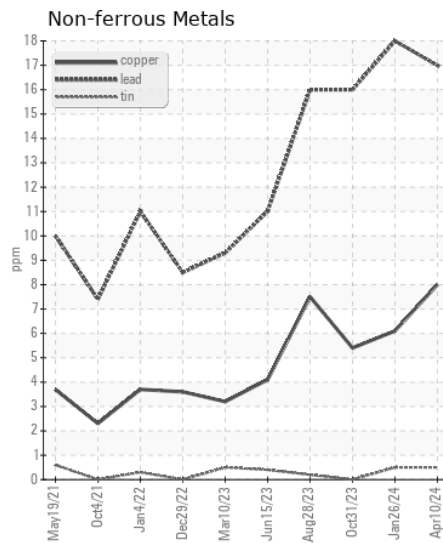
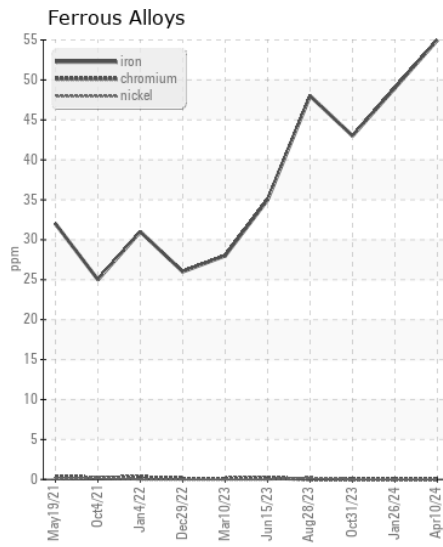
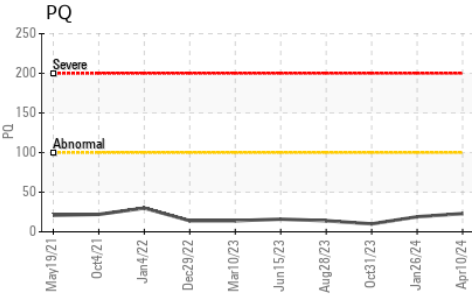
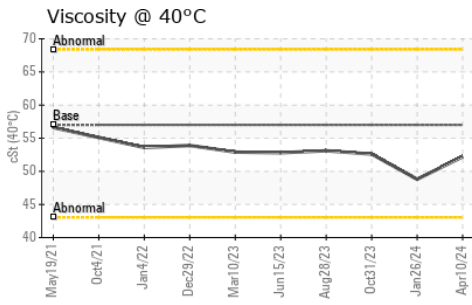
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>31	<b>2</b>	3	3
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	1	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 oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m	>51	<b>0</b>	2	<1
Boron	ppm	ASTM D5185m	6	<b>2</b>	1	1
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	0	<b>1</b>	0	0
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	1	<1
Magnesium	ppm	ASTM D5185m	145	<b>90</b>	97	90
Calcium	ppm	ASTM D5185m	3570	<b>3388</b>	3348	3191
Phosphorus	ppm	ASTM D5185m	1290	<b>1186</b>	1055	914
Zinc	ppm	ASTM D5185m	1640	<b>1234</b>	1252	1191
Sulfur	ppm	ASTM D5185m		<b>3953</b>	3398	3207
Visc @ 40°C	cSt	ASTM D445	57.0	<b>52.2</b>	48.8	52.6



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0209099 **Received** : 10 Apr 2024  
**Lab Number** : 06145423 **Tested** : 14 Apr 2024  
**Unique Number** : 10970231 **Diagnosed** : 14 Apr 2024 - Don Baldrige  
**Test Package** : CONST ( Additional Tests: PQ )

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

Contact: RALEIGH SHOP  
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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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