



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



Area  
**[W64350]**  
 Machine Id  
**JOHN DEERE 544K 1DW544KZHJF687167**  
 Component  
**Rear Differential**  
 Fluid  
**JOHN DEERE HY-GARD HYDRAULIC/RANSMISSION (5 GAL)**

### RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. ( Customer Sample Comment: W64350 )

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0204246</b>	JR0150957	JR0119301
Sample Date		Client Info		<b>22 Feb 2024</b>	08 Dec 2022	15 Feb 2022
Machine Age	hrs	Client Info		<b>2139</b>	1515	1066
Oil Age	hrs	Client Info		<b>1206</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	N/A	Not Changd
Filter Changed		Client Info		<b>Changed</b>	N/A	Changed
Sample Status				<b>ABNORMAL</b>	NORMAL	NORMAL

### WEAR

Bearing and/or bushing wear is indicated.

PQ		ASTM D8184		<b>27</b>	11	22
Iron	ppm	ASTM D5185m	>500	<b>94</b>	4	51
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>6</b>	1	<1
Lead	ppm	ASTM D5185m	>25	<b>▲ 71</b>	<1	35
Copper	ppm	ASTM D5185m	>100	<b>35</b>	0	12
Tin	ppm	ASTM D5185m	>10	<b>3</b>	<1	1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

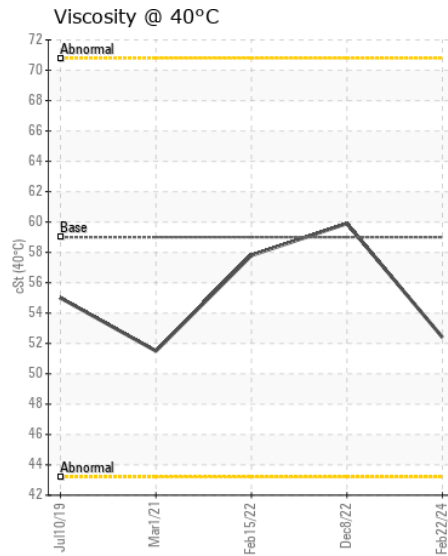
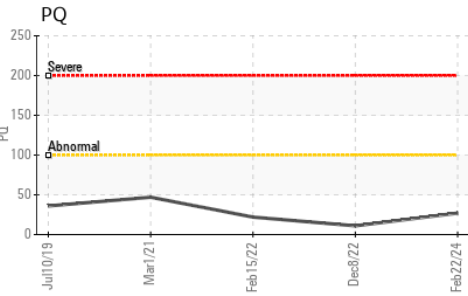
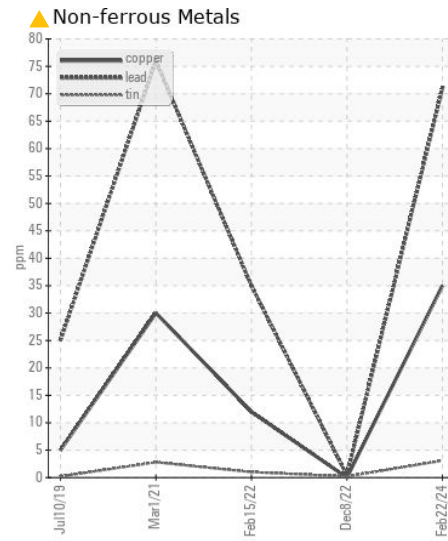
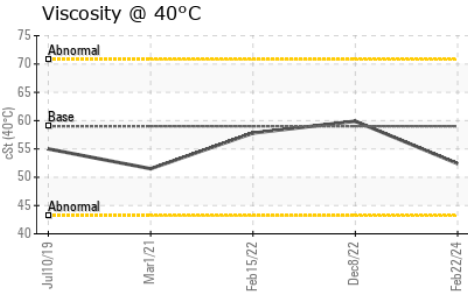
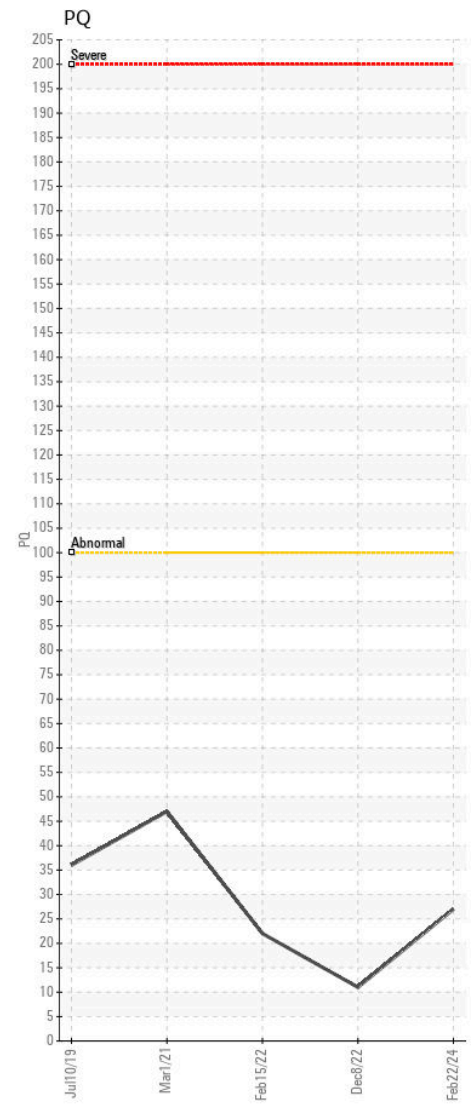
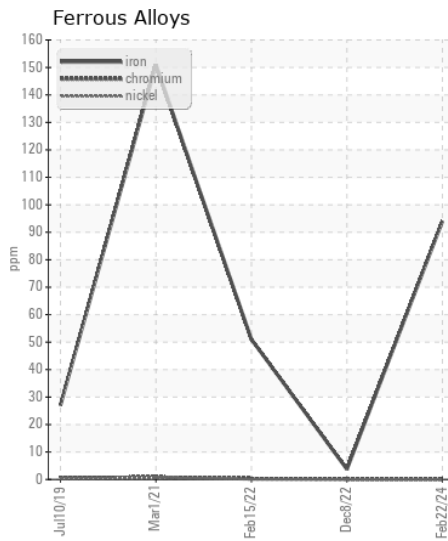
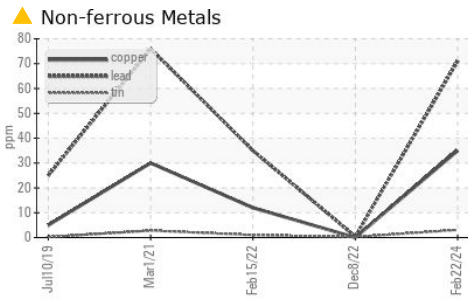
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	<b>6</b>	6	4
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	0	0
Water		WC Method	>.2	<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	>.2	<b>NEG</b>	NEG	NEG

### FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		<b>6</b>	<1	3
Boron	ppm	ASTM D5185m		<b>1</b>	0	4
Barium	ppm	ASTM D5185m		<b>2</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>0</b>	<1	1
Manganese	ppm	ASTM D5185m		<b>2</b>	<1	1
Magnesium	ppm	ASTM D5185m		<b>97</b>	96	118
Calcium	ppm	ASTM D5185m		<b>3254</b>	3440	3859
Phosphorus	ppm	ASTM D5185m		<b>1022</b>	949	1130
Zinc	ppm	ASTM D5185m		<b>1184</b>	1174	1288
Sulfur	ppm	ASTM D5185m		<b>3410</b>	3858	3625
Visc @ 40°C	cSt	ASTM D445	59	<b>52.4</b>	59.9	57.8



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0204246 **Received** : 27 Feb 2024  
**Lab Number** : 06101956 **Tested** : 28 Feb 2024  
**Unique Number** : 10900186 **Diagnosed** : 29 Feb 2024 - Sean Felton  
**Test Package** : CONST ( Additional Tests: PQ )

**JRE - CHARLOTTE**  
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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)