



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

Machine Id  
**JOHN DEERE 624 P 1DW624PAPNLZ13945**

Component  
**Rear Differential**  
Fluid  
**{not provided} (--- GAL)**

### RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0223534</b>	JR0205266	JR0186894
Sample Date		Client Info		<b>08 Jul 2024</b>	26 Mar 2024	17 Sep 2023
Machine Age	hrs	Client Info		<b>3468</b>	2983	2099
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	N/A	N/A
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>ABNORMAL</b>	ABNORMAL	SEVERE

### WEAR

Bearing and/or bushing wear is indicated.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		<b>13</b>	21	22
Iron	ppm	ASTM D5185m	>500	<b>82</b>	78	149
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	1	<1
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>1</b>	3	1
Lead	ppm	ASTM D5185m	>25	<b>▲ 126</b>	▲ 108	▲ 204
Copper	ppm	ASTM D5185m	>100	<b>▲ 202</b>	▲ 156	▲ 617
Tin	ppm	ASTM D5185m	>10	<b>▲ 14</b>	▲ 13	▲ 35
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

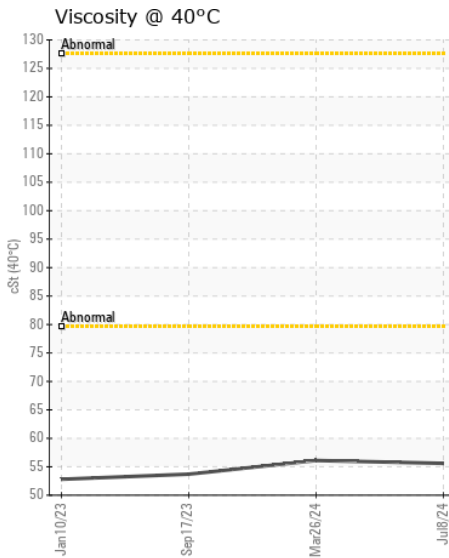
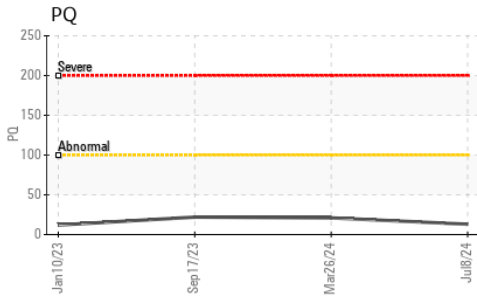
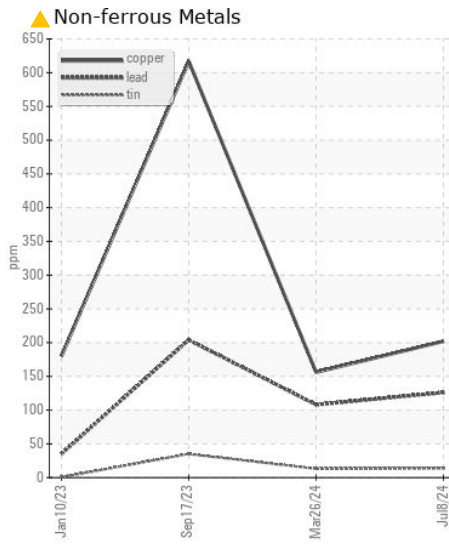
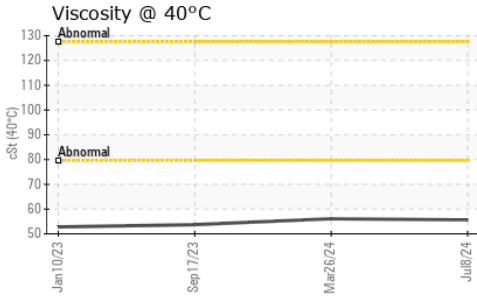
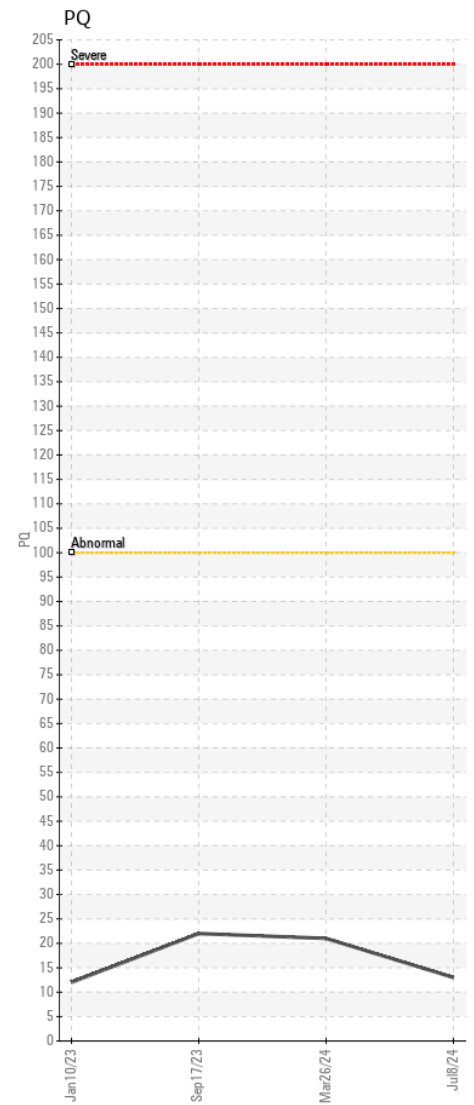
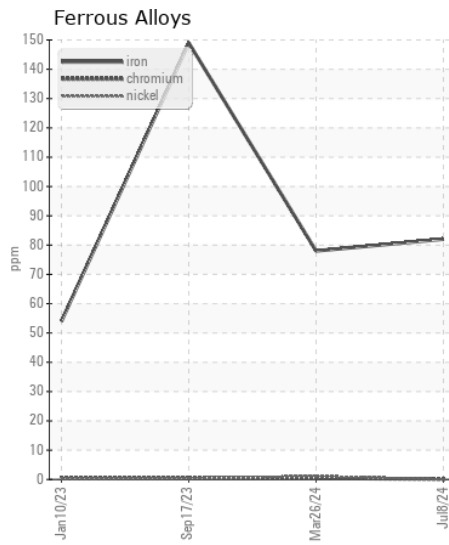
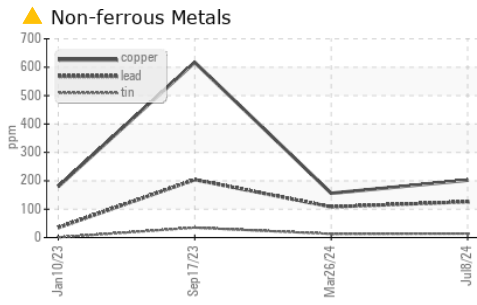
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	<b>7</b>	11	6
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	1	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>5</b>	4	6
Boron	ppm	ASTM D5185m		<b>20</b>	21	0
Barium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>17</b>	18	<1
Manganese	ppm	ASTM D5185m		<b>2</b>	2	3
Magnesium	ppm	ASTM D5185m		<b>131</b>	145	72
Calcium	ppm	ASTM D5185m		<b>2851</b>	2968	2708
Phosphorus	ppm	ASTM D5185m		<b>1004</b>	966	1034
Zinc	ppm	ASTM D5185m		<b>1077</b>	1125	1015
Sulfur	ppm	ASTM D5185m		<b>3844</b>	4138	4287
Visc @ 40°C	cSt	ASTM D445		<b>55.6</b>	56.1	53.7



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0223534 **Received** : 09 Jul 2024  
**Lab Number** : 06231753 **Tested** : 10 Jul 2024  
**Unique Number** : 11115246 **Diagnosed** : 11 Jul 2024 - Don Baldrige  
**Test Package** : CONST ( Additional Tests: PQ )

**JRE - GREENSBORO**  
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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)