



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

Machine Id  
**JOHN DEERE 624P 1DW624PAAMLZ11005**  
 Component  
**Rear Differential**  
 Fluid  
**JOHN DEERE HY-GARD HYD/TRANS (--- 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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0200236</b>	JR0148083	JR0125472
Sample Date		Client Info		<b>04 Jan 2024</b>	16 Jan 2023	14 Sep 2022
Machine Age	hrs	Client Info		<b>3952</b>	2451	1969
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>Changed</b>	Not Chngd	Changed
Filter Changed		Client Info		<b>Changed</b>	Not Chngd	Changed
Sample Status				<b>ABNORMAL</b>	NORMAL	SEVERE

### WEAR

Bearing and/or bushing wear is indicated.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		<b>16</b>	13	4
Iron	ppm	ASTM D5185m	>500	<b>52</b>	36	100
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>&lt;1</b>	<1	2
Lead	ppm	ASTM D5185m	>25	<b>▲ 78</b>	41	128
Copper	ppm	ASTM D5185m	>100	<b>▲ 180</b>	94	288
Tin	ppm	ASTM D5185m	>10	<b>1</b>	1	3
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

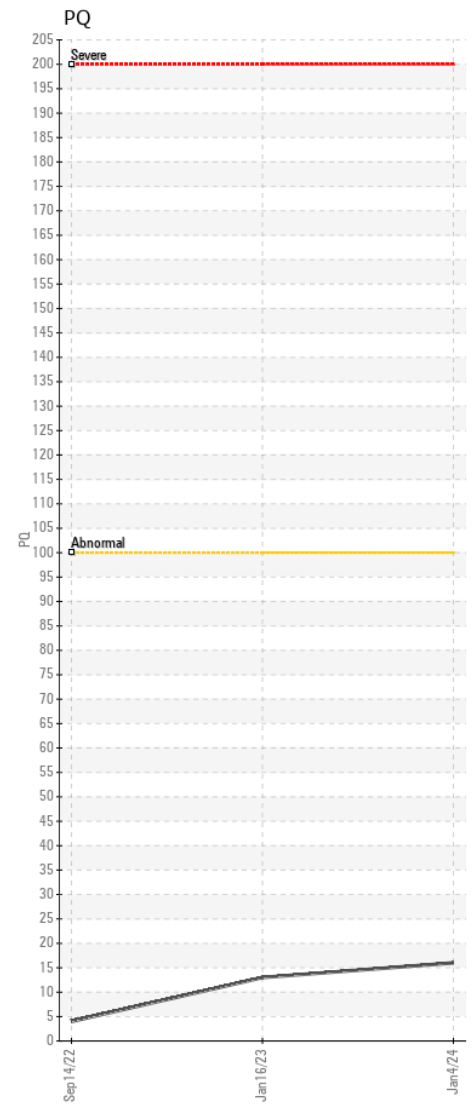
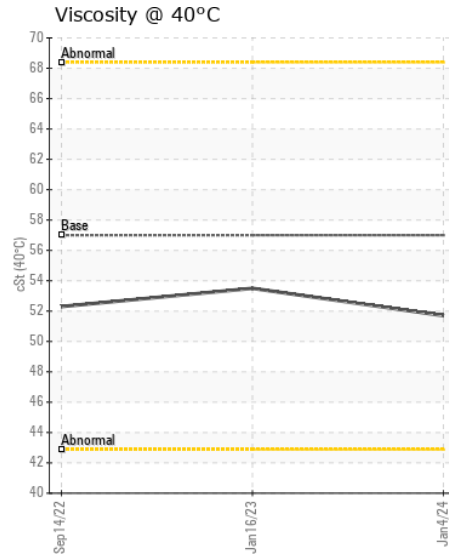
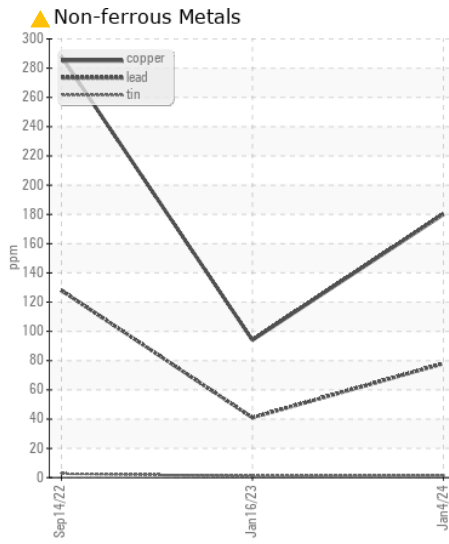
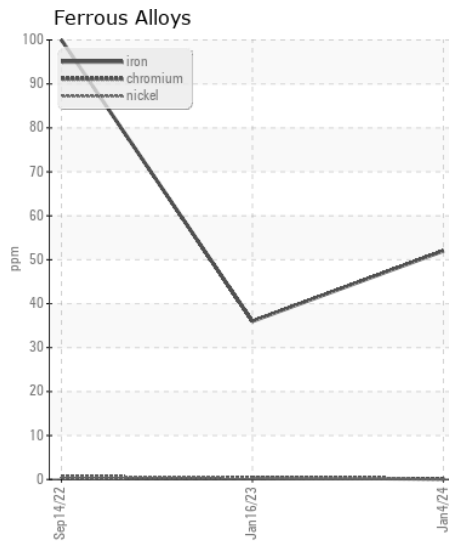
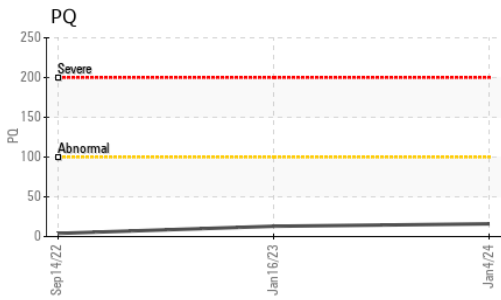
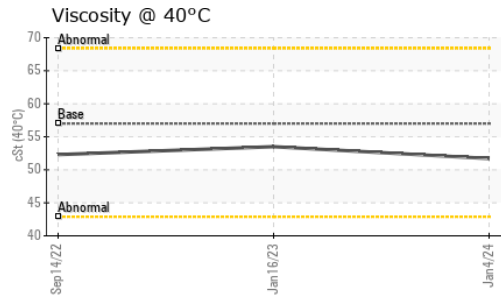
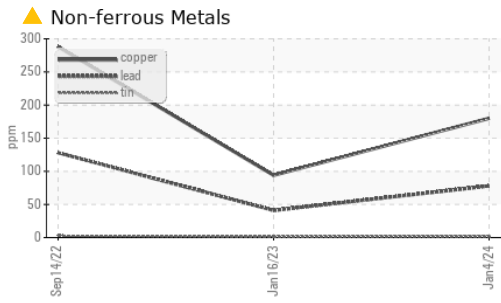
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	<b>4</b>	4	4
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>4</b>	2	5
Boron	ppm	ASTM D5185m	6	<b>&lt;1</b>	2	6
Barium	ppm	ASTM D5185m	0	<b>0</b>	11	2
Molybdenum	ppm	ASTM D5185m	0	<b>0</b>	2	<1
Manganese	ppm	ASTM D5185m		<b>1</b>	<1	2
Magnesium	ppm	ASTM D5185m	145	<b>84</b>	99	86
Calcium	ppm	ASTM D5185m	3570	<b>3024</b>	3311	3113
Phosphorus	ppm	ASTM D5185m	1290	<b>998</b>	981	939
Zinc	ppm	ASTM D5185m	1640	<b>1130</b>	1222	1093
Sulfur	ppm	ASTM D5185m		<b>3366</b>	3843	3793
Visc @ 40°C	cSt	ASTM D445	57.0	<b>51.7</b>	53.5	52.3



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0200236 **Received** : 09 Jan 2024  
**Lab Number** : 06055577 **Diagnosed** : 10 Jan 2024  
**Unique Number** : 10821526 **Diagnostician** : Sean Felton  
**Test Package** : CONST ( Additional Tests: PQ )

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Certificate L2367  
 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)