



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

Machine Id  
**JOHN DEERE 624 P 1DW624PATNLZ14642**  
 Component  
**Front Differential**  
 Fluid  
**TDH FLUID SAE 75W80 (--- GAL)**

### RECOMMENDATION

The oil 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>JR0188421</b>	JR0177393	JR0155995
Sample Date		Client Info		<b>15 Jan 2024</b>	09 Aug 2023	28 Feb 2023
Machine Age	hrs	Client Info		<b>2317</b>	1726	1027
Oil Age	hrs	Client Info		<b>1618</b>	699	500
Filter Age	hrs	Client Info		<b>0</b>	0	500
Oil Changed		Client Info		<b>Changed</b>	Not Changd	Changed
Filter Changed		Client Info		<b>Changed</b>	N/A	Changed
Sample Status				<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

### WEAR

Bearing and/or bushing wear is indicated.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		<b>21</b>	18	21
Iron	ppm	ASTM D5185m	>500	<b>86</b>	95	77
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	<1
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	0
Silver	ppm	ASTM D5185m		<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185m	>25	<b>&lt;1</b>	2	1
Lead	ppm	ASTM D5185m	>25	<b>▲ 41</b>	▲ 40	▲ 27
Copper	ppm	ASTM D5185m	>100	<b>▲ 227</b>	▲ 254	▲ 165
Tin	ppm	ASTM D5185m	>10	<b>5</b>	4	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

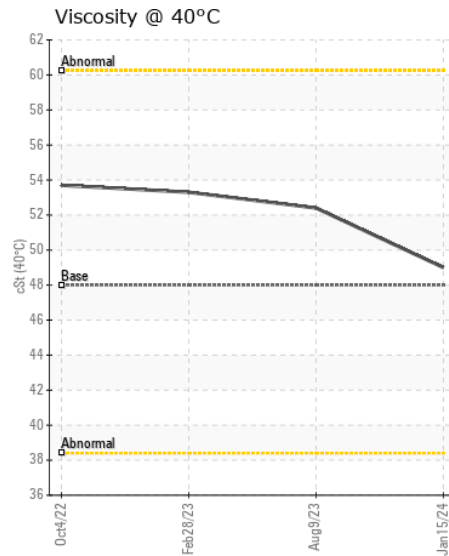
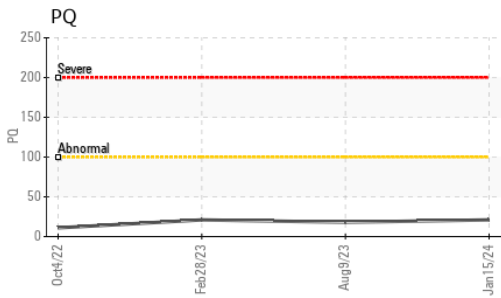
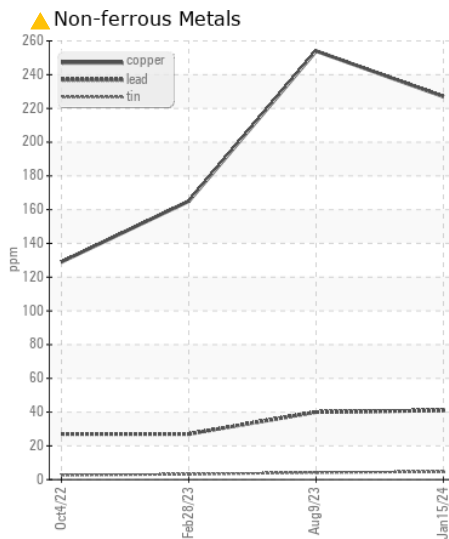
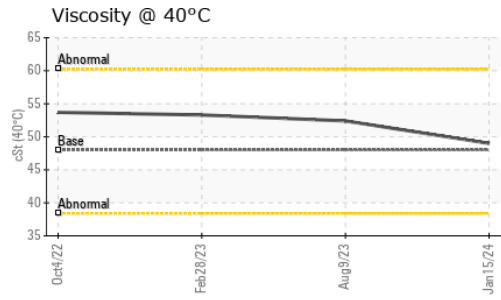
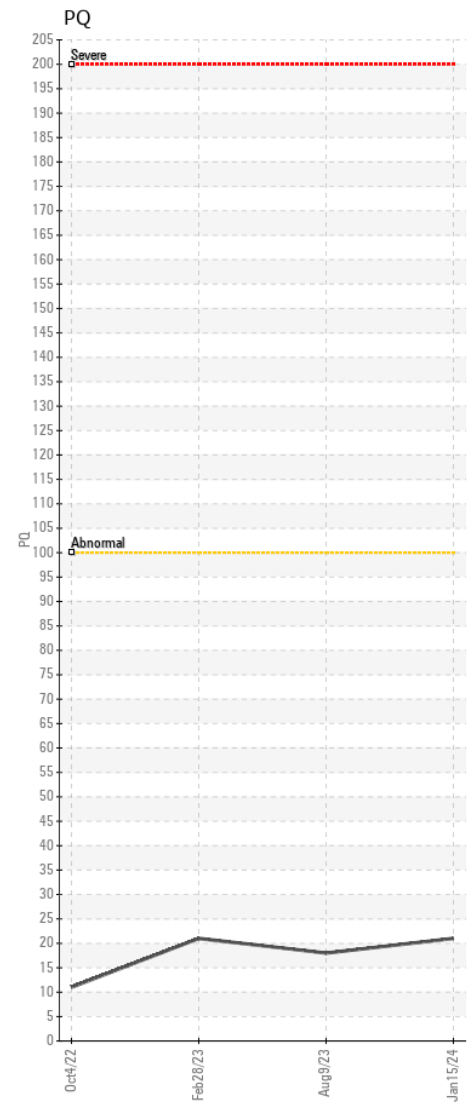
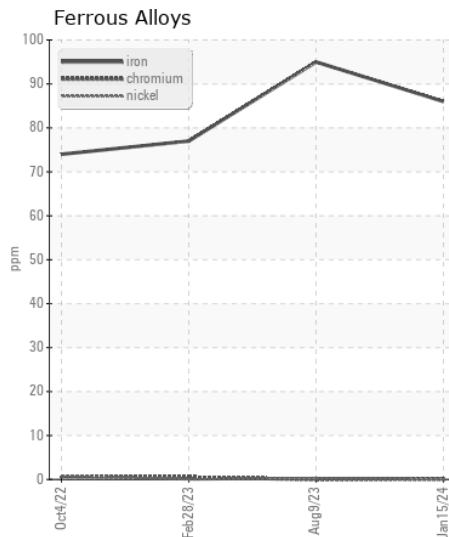
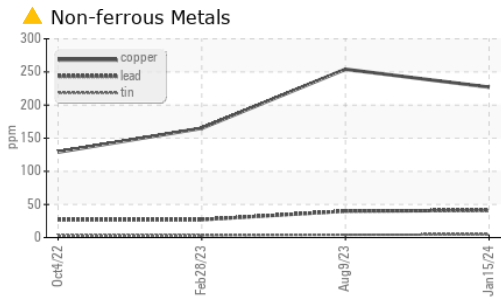
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	<b>4</b>	5	5
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	5	2
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	▲ MODER
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>	0	6
Boron	ppm	ASTM D5185m	10	<b>2</b>	3	2
Barium	ppm	ASTM D5185m	10	<b>4</b>	8	4
Molybdenum	ppm	ASTM D5185m	10	<b>&lt;1</b>	1	1
Manganese	ppm	ASTM D5185m		<b>2</b>	2	2
Magnesium	ppm	ASTM D5185m	100	<b>94</b>	98	93
Calcium	ppm	ASTM D5185m	3500	<b>3398</b>	4034	3503
Phosphorus	ppm	ASTM D5185m	1150	<b>1062</b>	1153	998
Zinc	ppm	ASTM D5185m	1150	<b>1240</b>	1358	1194
Sulfur	ppm	ASTM D5185m	5000	<b>3579</b>	4618	4080
Visc @ 40°C	cSt	ASTM D445	48	<b>49.0</b>	52.4	53.3



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0188421 **Received** : 18 Jan 2024  
**Lab Number** : 06064534 **Diagnosed** : 21 Jan 2024  
**Unique Number** : 10835916 **Diagnostician** : Don Baldrige  
**Test Package** : CONST ( Additional Tests: PQ )

**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: