



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

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>JR0220374</b>	JR0206665	JR0188421
Sample Date		Client Info		<b>11 Jul 2024</b>	19 Apr 2024	15 Jan 2024
Machine Age	hrs	Client Info		<b>3035</b>	2523	2317
Oil Age	hrs	Client Info		<b>2829</b>	206	1618
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	Not Changd	Changed
Filter Changed		Client Info		<b>N/A</b>	N/A	Changed
Sample Status				<b>ABNORMAL</b>	NORMAL	ABNORMAL

### WEAR

Bearing and/or bushing wear is indicated.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		<b>20</b>	17	21
Iron	ppm	ASTM D5185m	>500	<b>43</b>	30	86
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>2</b>	2	<1
Lead	ppm	ASTM D5185m	>25	<b>▲ 55</b>	12	▲ 41
Copper	ppm	ASTM D5185m	>100	<b>▲ 76</b>	76	▲ 227
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	1	5
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

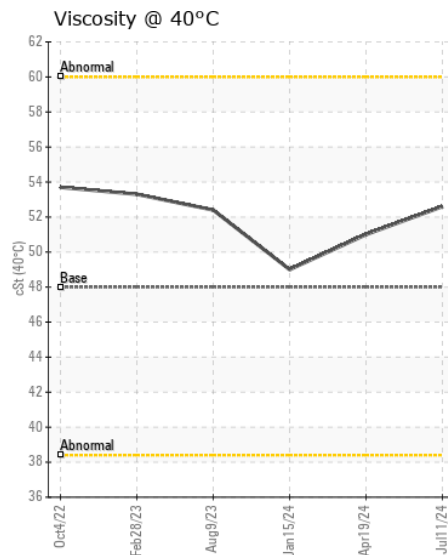
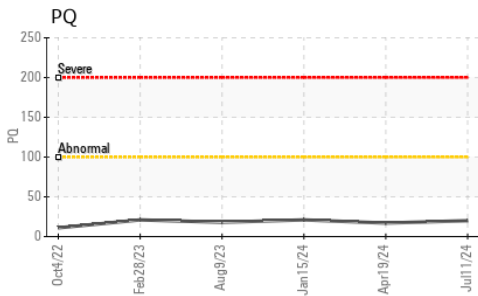
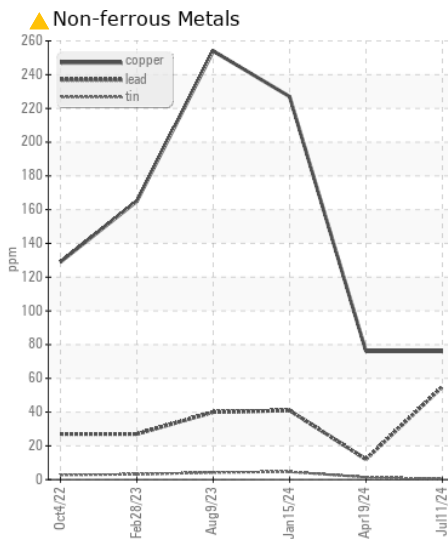
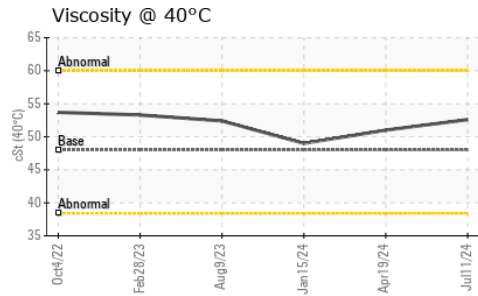
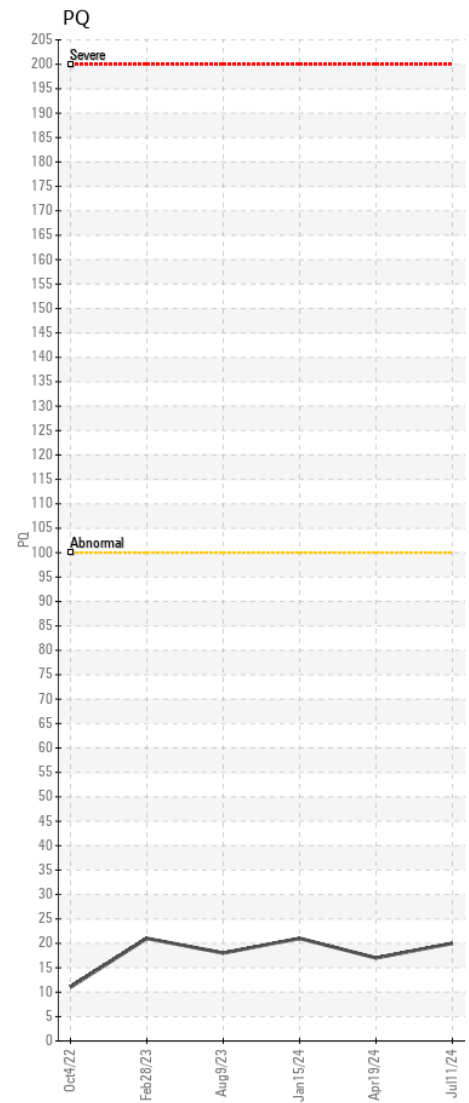
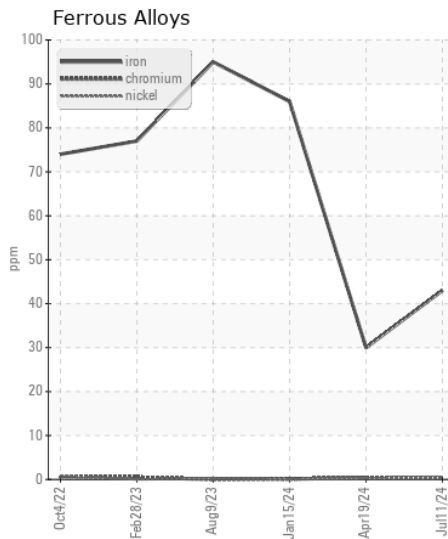
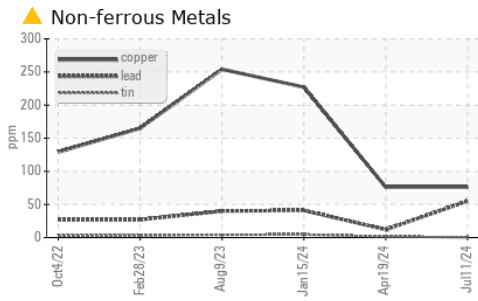
There is no indication of any contamination in the oil.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Silicon	ppm	ASTM D5185m	>75	<b>6</b>	4	4
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	2	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	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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sodium	ppm	ASTM D5185m		<b>&lt;1</b>	2	6
Boron	ppm	ASTM D5185m	10	<b>4</b>	1	2
Barium	ppm	ASTM D5185m	10	<b>0</b>	<1	4
Molybdenum	ppm	ASTM D5185m	10	<b>4</b>	1	<1
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	2
Magnesium	ppm	ASTM D5185m	100	<b>88</b>	95	94
Calcium	ppm	ASTM D5185m	3500	<b>3312</b>	3355	3398
Phosphorus	ppm	ASTM D5185m	1150	<b>1043</b>	1006	1062
Zinc	ppm	ASTM D5185m	1150	<b>1204</b>	1225	1240
Sulfur	ppm	ASTM D5185m	5000	<b>3360</b>	3732	3579
Visc @ 40°C	cSt	ASTM D445	48	<b>52.6</b>	51.0	49.0



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0220374 **Received** : 15 Jul 2024  
**Lab Number** : 06236353 **Tested** : 16 Jul 2024  
**Unique Number** : 11125187 **Diagnosed** : 16 Jul 2024 - Sean Felton  
**Test Package** : CONST ( Additional Tests: PQ )

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)

**CARLTON'S BACKHOE**  
 9550 STATESVILLE ROAD  
 CHARLOTTE, NC  
 US 28269  
 Contact: LEO

T: (704)547-0211  
 F: