



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

Machine Id  
**JOHN DEERE 524 P 1DW524PAKMLT13003**

Component  
**Front Differential**  
Fluid  
**NOT GIVEN (--- 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>JR0203641</b>	JR0151341	---
Sample Date		Client Info		<b>30 Jan 2024</b>	30 Nov 2022	---
Machine Age	hrs	Client Info		<b>1108</b>	440	---
Oil Age	hrs	Client Info		<b>440</b>	0	---
Filter Age	hrs	Client Info		<b>440</b>	0	---
Oil Changed		Client Info		<b>N/A</b>	N/A	---
Filter Changed		Client Info		<b>Changed</b>	N/A	---
Sample Status				<b>ABNORMAL</b>	ABNORMAL	---

### WEAR

Bearing and/or bushing wear is indicated. All other component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		<b>27</b>	17	---
Iron	ppm	ASTM D5185m	>500	<b>106</b>	93	---
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	---
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	0	---
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	---
Silver	ppm	ASTM D5185m		<b>0</b>	<1	---
Aluminum	ppm	ASTM D5185m	>25	<b>&lt;1</b>	1	---
Lead	ppm	ASTM D5185m	>25	<b>▲ 75</b>	▲ 60	---
Copper	ppm	ASTM D5185m	>100	<b>▲ 389</b>	▲ 273	---
Tin	ppm	ASTM D5185m	>10	<b>2</b>	2	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

### CONTAMINATION

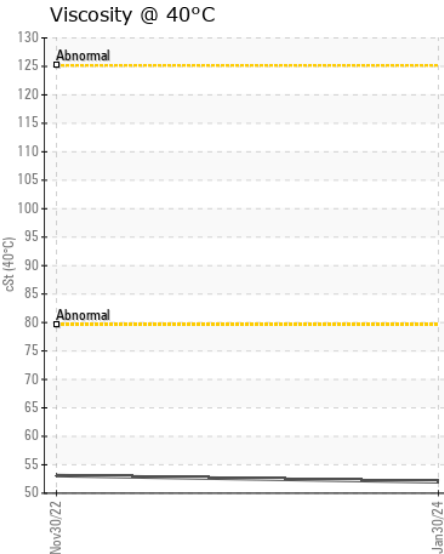
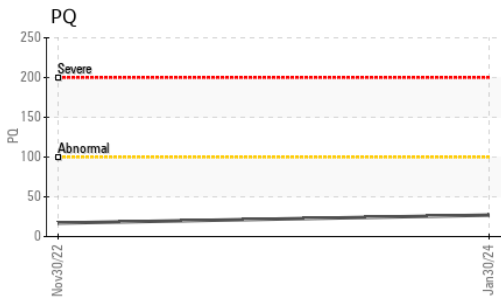
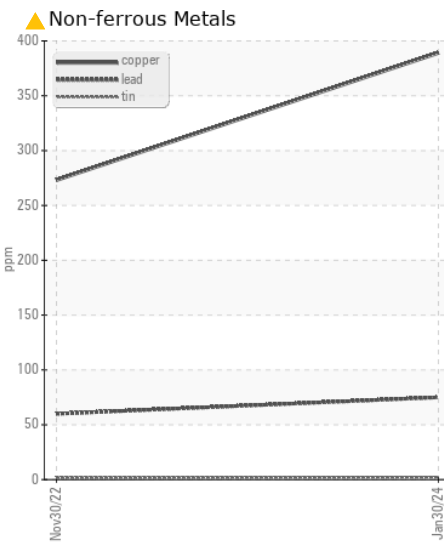
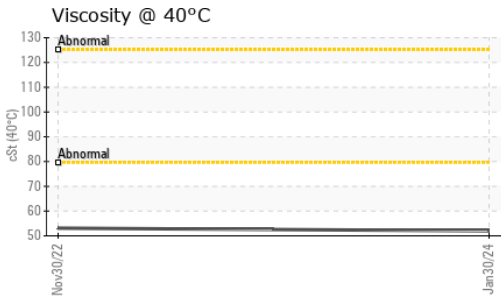
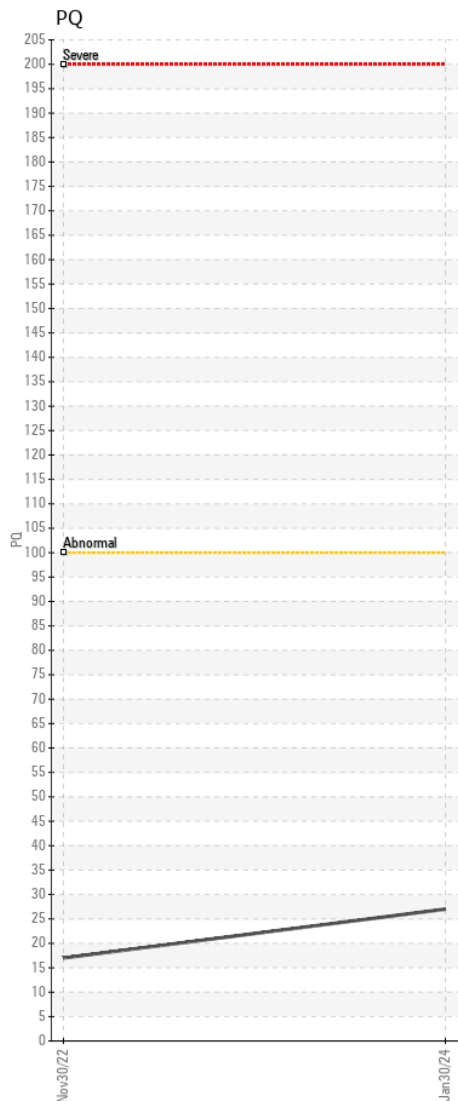
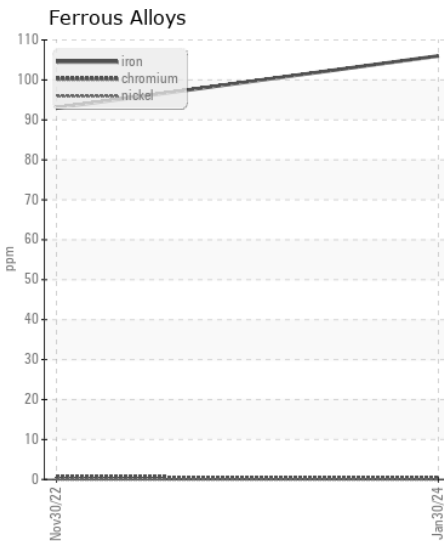
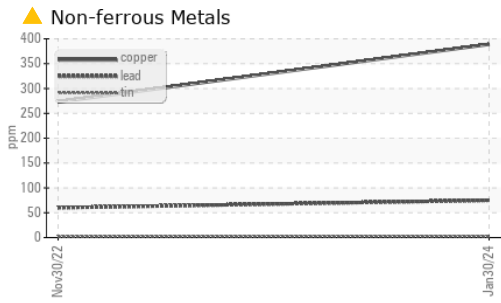
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	<b>5</b>	6	---
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	---
Water		WC Method	>.2	<b>NEG</b>	NEG	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual	>.2	<b>NEG</b>	NEG	---

### FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		<b>5</b>	7	---
Boron	ppm	ASTM D5185m		<b>2</b>	6	---
Barium	ppm	ASTM D5185m		<b>4</b>	4	---
Molybdenum	ppm	ASTM D5185m		<b>0</b>	<1	---
Manganese	ppm	ASTM D5185m		<b>3</b>	3	---
Magnesium	ppm	ASTM D5185m		<b>94</b>	98	---
Calcium	ppm	ASTM D5185m		<b>3111</b>	3581	---
Phosphorus	ppm	ASTM D5185m		<b>969</b>	1030	---
Zinc	ppm	ASTM D5185m		<b>1111</b>	1156	---
Sulfur	ppm	ASTM D5185m		<b>3159</b>	4349	---
Visc @ 40°C	cSt	ASTM D445		<b>52.0</b>	53.1	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0203641      **Received** : 01 Feb 2024  
**Lab Number** : 06077105      **Diagnosed** : 03 Feb 2024  
**Unique Number** : 10859196      **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: