



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

Machine Id  
**JOHN DEERE 524 P 1DW524PATMLT11426**

Component  
**Transmission**

Fluid  
**JOHN DEERE HY-GARD HYD/TRANS (--- 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>JR0206640</b>	JR0188469	---
Sample Date		Client Info		<b>24 Apr 2024</b>	07 Sep 2023	---
Machine Age	hrs	Client Info		<b>2661</b>	1987	---
Oil Age	hrs	Client Info		<b>674</b>	1987	---
Filter Age	hrs	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>Not Changd</b>	Changed	---
Filter Changed		Client Info		<b>Not Changd</b>	Changed	---
Sample Status				<b>ABNORMAL</b>	ABNORMAL	---

**WEAR**

All component wear rates are normal.

PQ		ASTM D8184	>100	<b>15</b>	12	---
Iron	ppm	ASTM D5185m	>61	<b>17</b>	35	---
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	---
Nickel	ppm	ASTM D5185m		<b>0</b>	0	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Silver	ppm	ASTM D5185m		<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	---
Lead	ppm	ASTM D5185m	>9	<b>0</b>	<1	---
Copper	ppm	ASTM D5185m	>100	<b>6</b>	11	---
Tin	ppm	ASTM D5185m	>3	<b>0</b>	0	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	LIGHT	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

**CONTAMINATION**

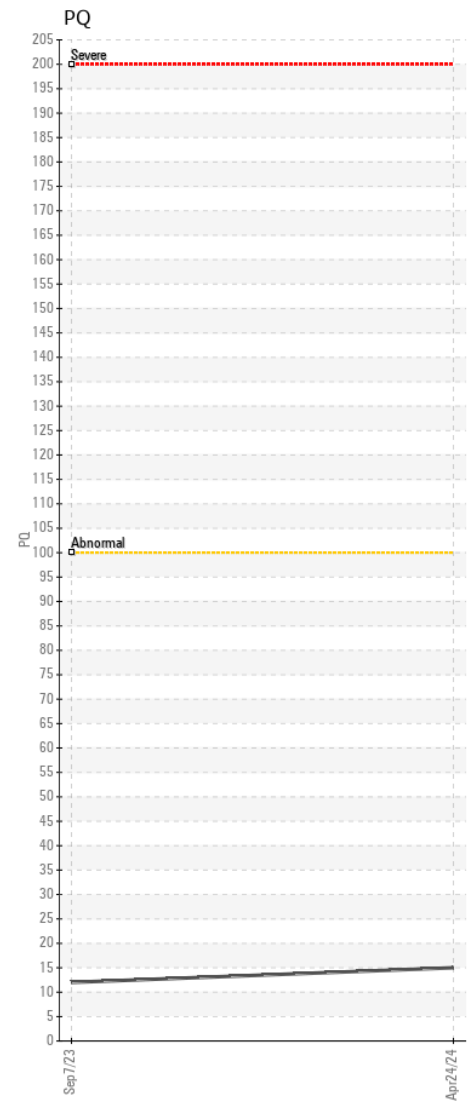
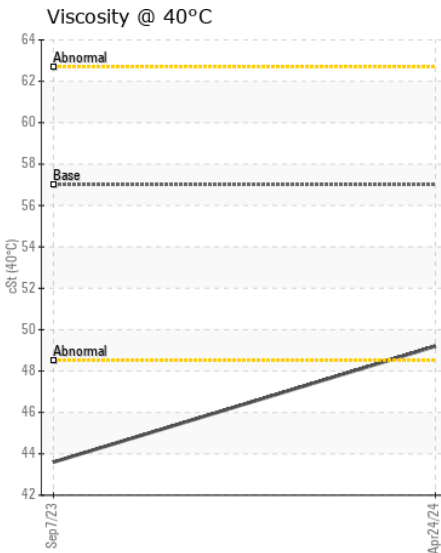
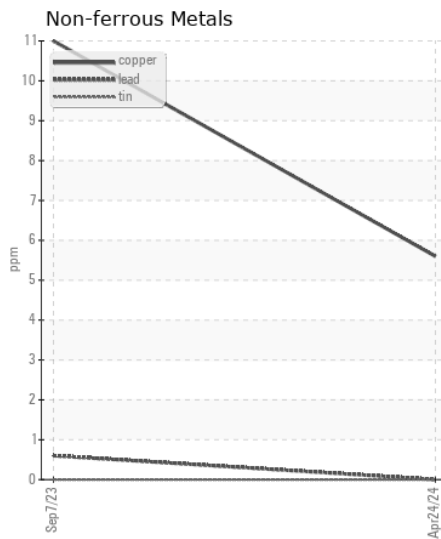
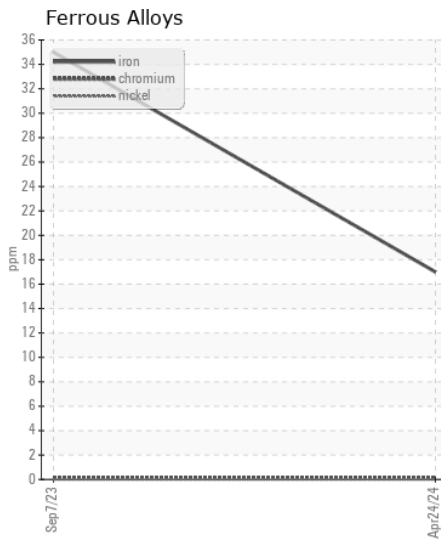
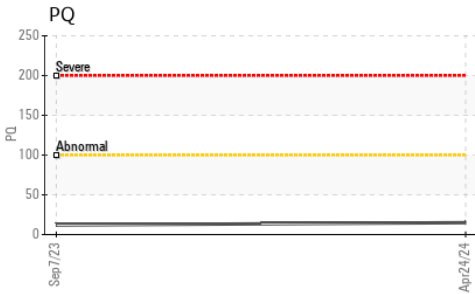
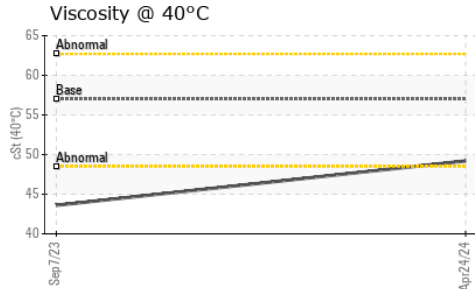
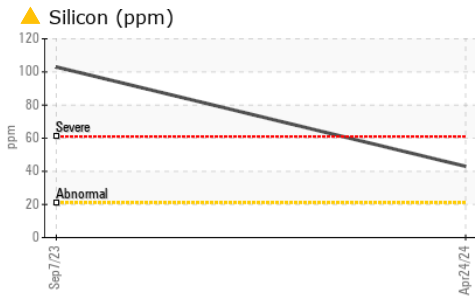
Elemental level of silicon (Si) above normal indicating ingress of seal material.

Silicon	ppm	ASTM D5185m	>21	<b>▲ 43</b>	▲ 103	---
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	0	---
Water		WC Method	>0.075	<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	>0.075	<b>NEG</b>	NEG	---

**FLUID CONDITION**

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

Sodium	ppm	ASTM D5185m	>30	<b>11</b>	24	---
Boron	ppm	ASTM D5185m	6	<b>0</b>	<1	---
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m	0	<b>&lt;1</b>	<1	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	1	---
Magnesium	ppm	ASTM D5185m	145	<b>90</b>	85	---
Calcium	ppm	ASTM D5185m	3570	<b>2907</b>	3156	---
Phosphorus	ppm	ASTM D5185m	1290	<b>914</b>	960	---
Zinc	ppm	ASTM D5185m	1640	<b>1038</b>	1186	---
Sulfur	ppm	ASTM D5185m		<b>3447</b>	3880	---
Visc @ 40°C	cSt	ASTM D445	57.0	<b>49.2</b>	43.6	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0206640 **Received** : 26 Apr 2024  
**Lab Number** : 06161717 **Tested** : 28 Apr 2024  
**Unique Number** : 10997140 **Diagnosed** : 29 Apr 2024 - Sean Felton  
**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: