



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



Machine Id  
**JOHN DEERE 644 P 1DW644PATPLX19041**

Component  
**Rear Axle**

Fluid  
**JOHN DEERE HY-GARD HYD/TRANS (27 GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0103230</b>	JR0109024	---
Sample Date		Client Info		<b>17 Mar 2024</b>	15 Feb 2024	---
Machine Age	hrs	Client Info		<b>441</b>	338	---
Oil Age	hrs	Client Info		<b>441</b>	338	---
Filter Age	hrs	Client Info		<b>0</b>	338	---
Oil Changed		Client Info		<b>Changed</b>	Not Changd	---
Filter Changed		Client Info		<b>Changed</b>	Not Changd	---
Sample Status				<b>NORMAL</b>	NORMAL	---

### WEAR

All component wear rates are normal.

Test	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		<b>27</b>	19	---
Iron	ppm	ASTM D5185m	>750	<b>61</b>	47	---
Chromium	ppm	ASTM D5185m	>11	<b>&lt;1</b>	<1	---
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Silver	ppm	ASTM D5185m		<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>21	<b>2</b>	2	---
Lead	ppm	ASTM D5185m	>49	<b>26</b>	22	---
Copper	ppm	ASTM D5185m	>101	<b>57</b>	88	---
Tin	ppm	ASTM D5185m	>10	<b>1</b>	<1	---
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

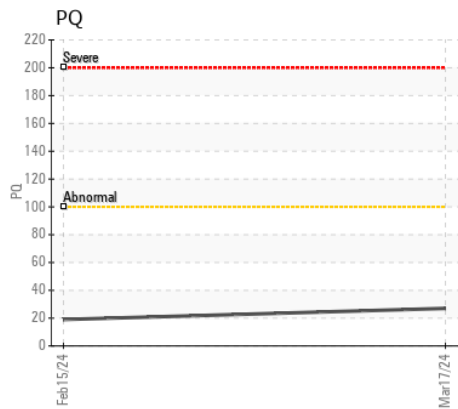
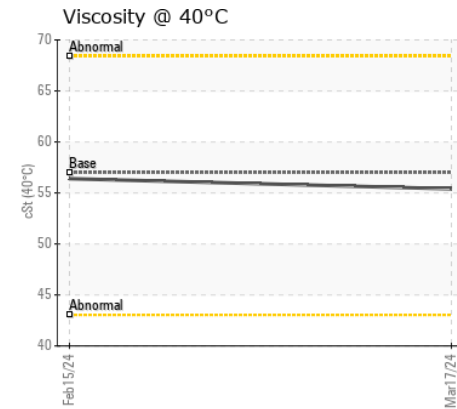
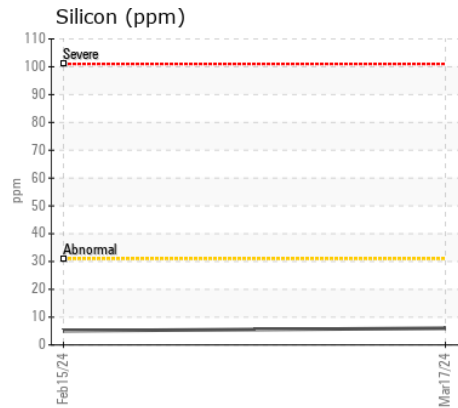
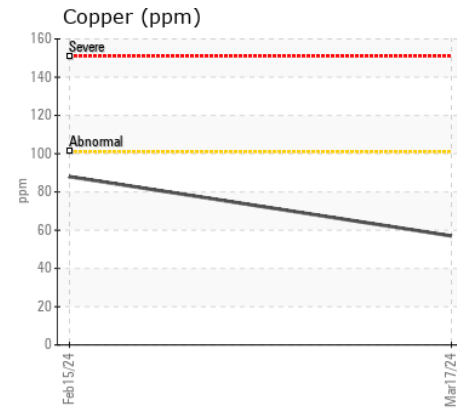
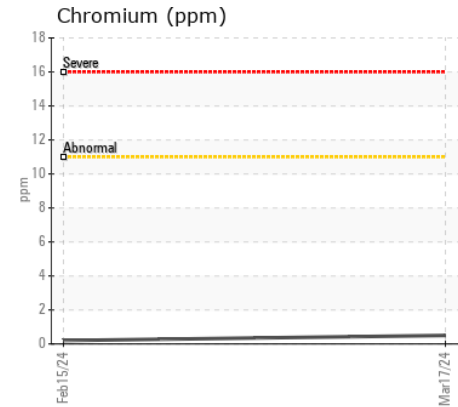
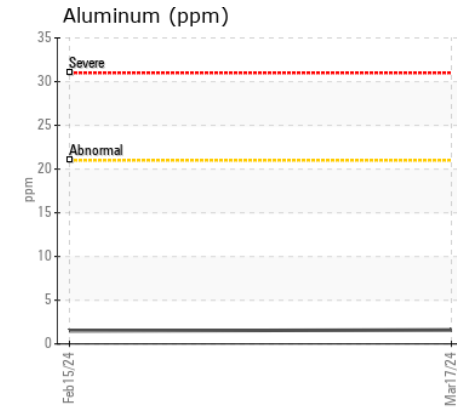
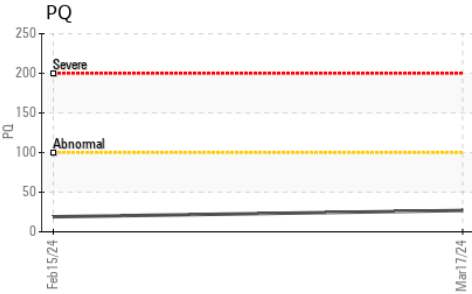
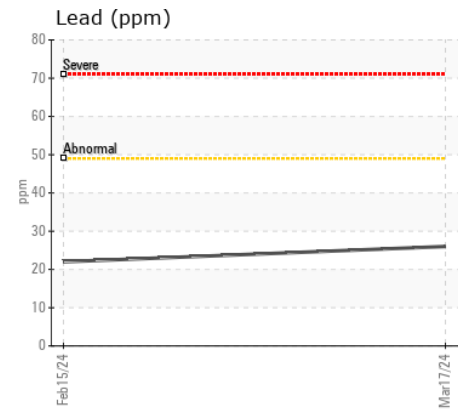
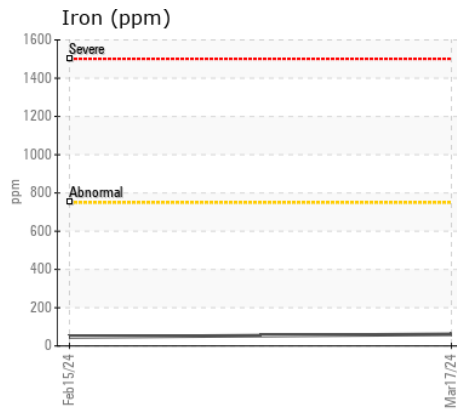
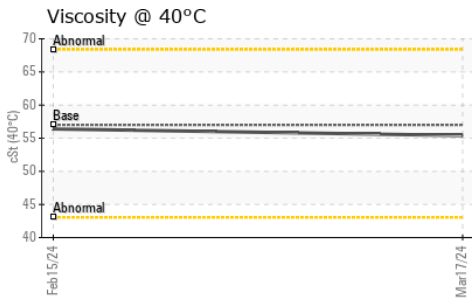
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>31	<b>6</b>	5	---
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	4	---
Water		WC Method	>0.1	<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	>0.1	<b>NEG</b>	NEG	---

### FLUID CONDITION

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

Sodium	ppm	ASTM D5185m	>51	<b>5</b>	4	---
Boron	ppm	ASTM D5185m	6	<b>3</b>	6	---
Barium	ppm	ASTM D5185m	0	<b>4</b>	14	---
Molybdenum	ppm	ASTM D5185m	0	<b>&lt;1</b>	<1	---
Manganese	ppm	ASTM D5185m		<b>3</b>	3	---
Magnesium	ppm	ASTM D5185m	145	<b>99</b>	100	---
Calcium	ppm	ASTM D5185m	3570	<b>3469</b>	3355	---
Phosphorus	ppm	ASTM D5185m	1290	<b>1017</b>	1051	---
Zinc	ppm	ASTM D5185m	1640	<b>1219</b>	1205	---
Sulfur	ppm	ASTM D5185m		<b>3865</b>	5984	---
Visc @ 40°C	cSt	ASTM D445	57.0	<b>55.4</b>	56.4	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513

**Sample No.** : JR0103230

**Lab Number** : 06122706

**Unique Number** : 10936857

**Test Package** : MOBCE ( Additional Tests: PQ )

**Received** : 19 Mar 2024

**Tested** : 20 Mar 2024

**Diagnosed** : 20 Mar 2024 - Wes Davis

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)

**JRE - GREENVILLE**

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