



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

Machine Id  
**JOHN DEERE 544 P 1DW544PALMLZ12405**  
 Component  
**Transmission (Manual)**  
 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>JR0213698</b>	JR0187084	---
Sample Date		Client Info		<b>30 May 2024</b>	01 Oct 2023	---
Machine Age	hrs	Client Info		<b>1431</b>	927	---
Oil Age	hrs	Client Info		<b>0</b>	0	---
Filter Age	hrs	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>N/A</b>	N/A	---
Filter Changed		Client Info		<b>N/A</b>	N/A	---
Sample Status				<b>ABNORMAL</b>	NORMAL	---

### WEAR

All component wear rates are normal.

PQ		ASTM D8184	>95	<b>19</b>	16	---
Iron	ppm	ASTM D5185m	>200	<b>42</b>	28	---
Chromium	ppm	ASTM D5185m	>5	<b>&lt;1</b>	<1	---
Nickel	ppm	ASTM D5185m	>5	<b>&lt;1</b>	0	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Silver	ppm	ASTM D5185m	>7	<b>&lt;1</b>	0	---
Aluminum	ppm	ASTM D5185m	>25	<b>1</b>	<1	---
Lead	ppm	ASTM D5185m	>45	<b>2</b>	1	---
Copper	ppm	ASTM D5185m	>225	<b>11</b>	6	---
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	LIGHT	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

### CONTAMINATION

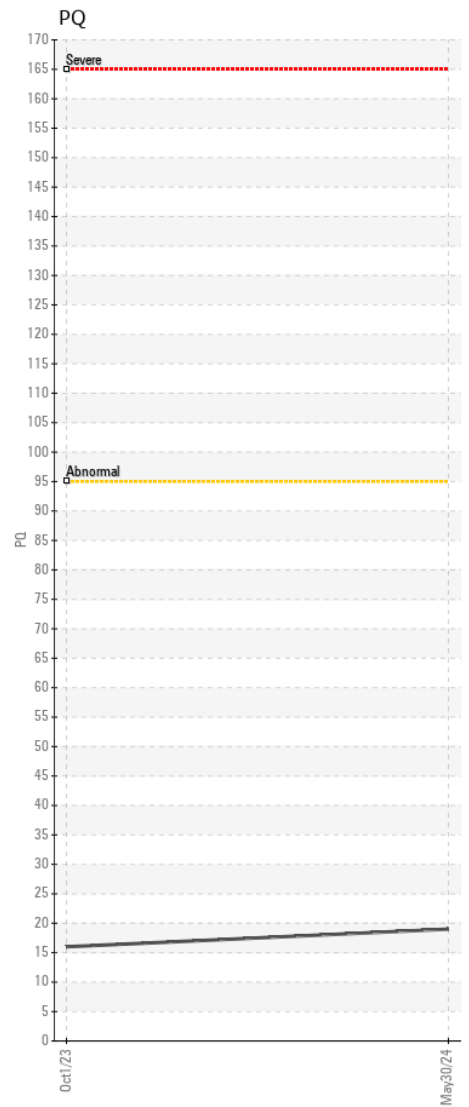
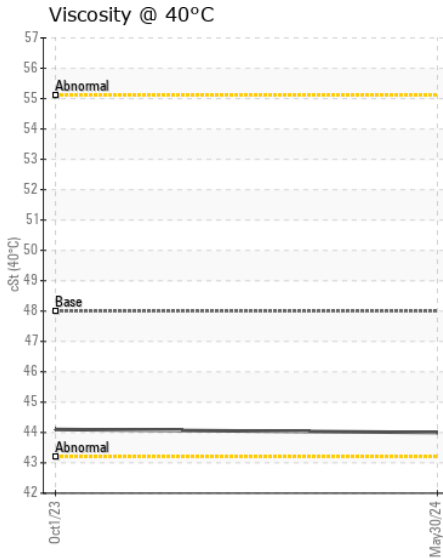
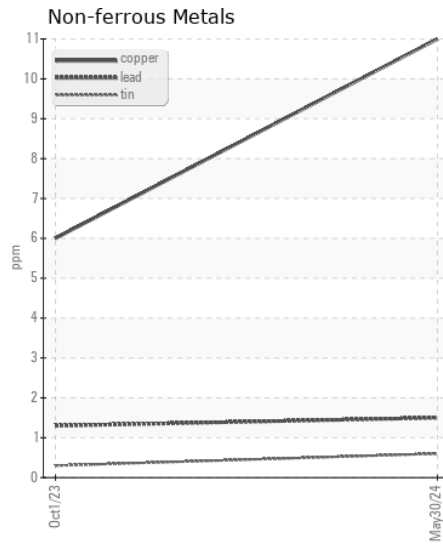
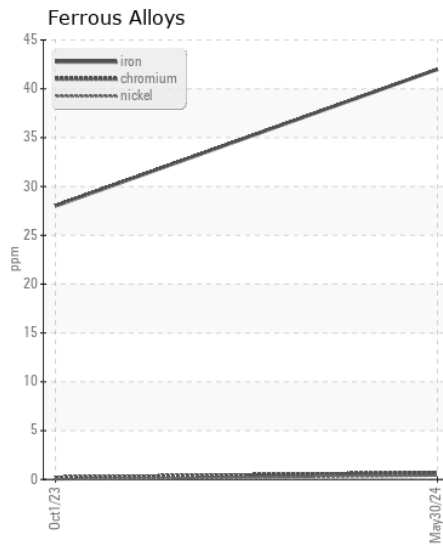
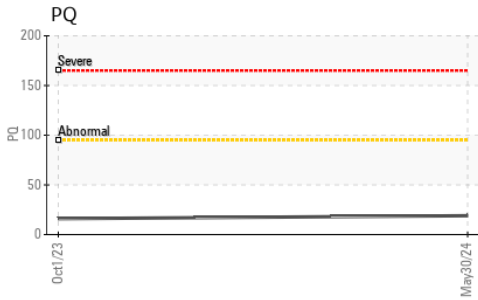
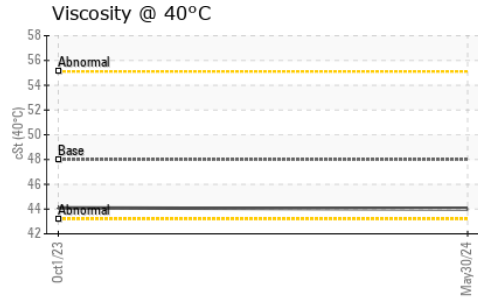
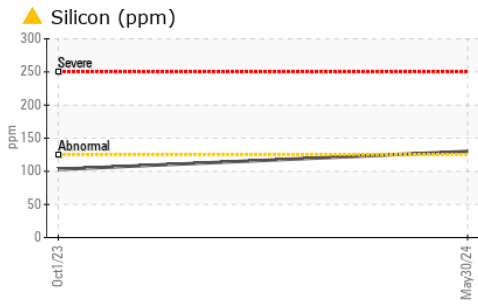
Elemental level of silicon (Si) above normal indicating ingress of seal material.

Silicon	ppm	ASTM D5185m	>125	<b>▲ 130</b>	103	---
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	<1	---
Water		WC Method	>0.1	<b>NEG</b>	NEG	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>LIGHT</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 fluid is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>30</b>	23	---
Boron	ppm	ASTM D5185m	10	<b>8</b>	4	---
Barium	ppm	ASTM D5185m	10	<b>2</b>	0	---
Molybdenum	ppm	ASTM D5185m	10	<b>3</b>	2	---
Manganese	ppm	ASTM D5185m		<b>2</b>	1	---
Magnesium	ppm	ASTM D5185m	100	<b>109</b>	82	---
Calcium	ppm	ASTM D5185m	3500	<b>4207</b>	3136	---
Phosphorus	ppm	ASTM D5185m	1150	<b>1463</b>	982	---
Zinc	ppm	ASTM D5185m	1150	<b>1642</b>	1245	---
Sulfur	ppm	ASTM D5185m	5000	<b>5209</b>	3555	---
Visc @ 40°C	cSt	ASTM D445	48	<b>44.0</b>	44.1	---



Certificate L2367

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

**Sample No.** : JR0213698

**Lab Number** : 06196901

**Unique Number** : 11059024

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

**Received** : 31 May 2024

**Tested** : 03 Jun 2024

**Diagnosed** : 03 Jun 2024 - Sean Felton

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 - GREENSBORO**

411 SOUTH REGIONAL ROAD

GREENSBORO, NC

US 27409

Contact: JUSTIN WILLIAMS

justin.williams@jamesriverequipment.com

T: (336)668-2762

F: (336)665-9556