



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

Machine Id  
**JOHN DEERE 544 P 1DW544PACPLZ16938**  
 Component  
**Rear Differential**  
 Fluid  
**JOHN DEERE HY-GARD HYD/TRANS (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0223376</b>	JR0205242	JR0138467
Sample Date		Client Info		<b>30 Jun 2024</b>	26 Mar 2024	12 Apr 2023
Machine Age	hrs	Client Info		<b>1971</b>	1494	268
Oil Age	hrs	Client Info		<b>0</b>	0	268
Filter Age	hrs	Client Info		<b>0</b>	0	268
Oil Changed		Client Info		<b>N/A</b>	N/A	Not Changd
Filter Changed		Client Info		<b>N/A</b>	N/A	Not Changd
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		<b>57</b>	12	78
Iron	ppm	ASTM D5185m	>500	<b>204</b>	3	136
Chromium	ppm	ASTM D5185m	>10	<b>1</b>	0	1
Nickel	ppm	ASTM D5185m	>10	<b>2</b>	<1	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>3</b>	2	3
Lead	ppm	ASTM D5185m	>25	<b>8</b>	0	3
Copper	ppm	ASTM D5185m	>100	<b>32</b>	<1	17
Tin	ppm	ASTM D5185m	>10	<b>2</b>	<1	1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

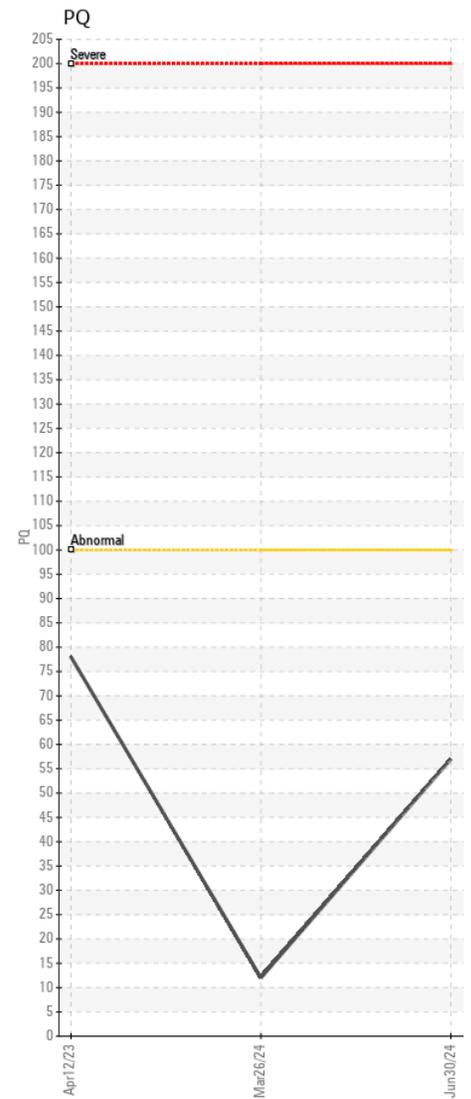
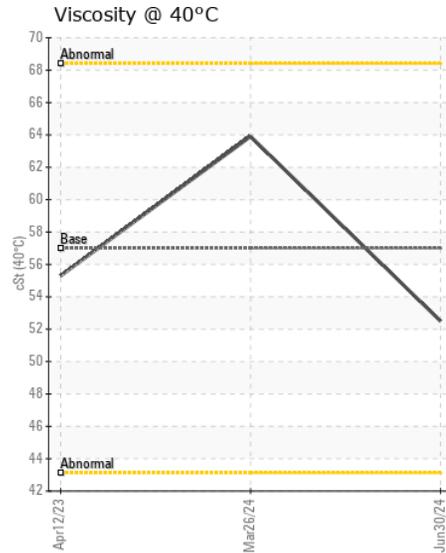
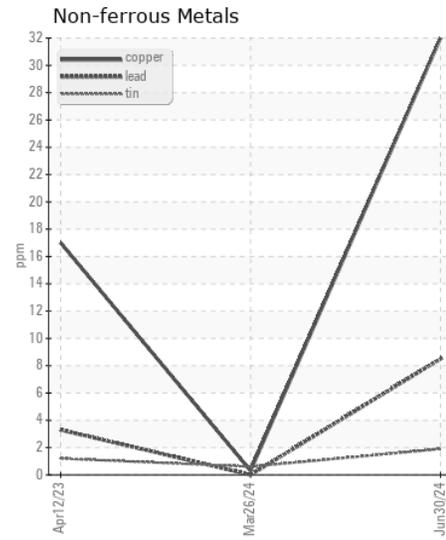
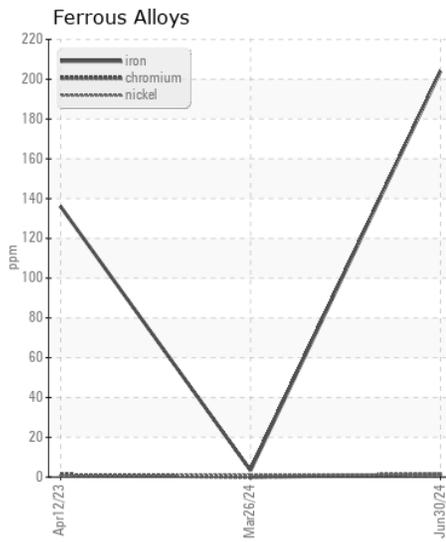
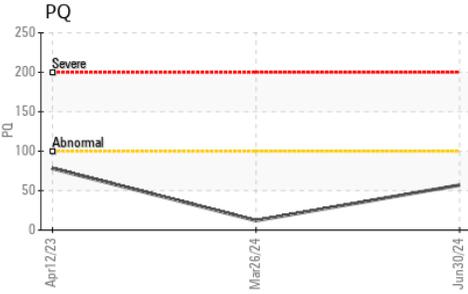
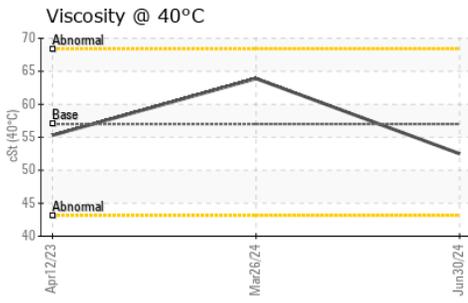
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	<b>13</b>	6	22
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	2	0
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.

Sodium	ppm	ASTM D5185m		<b>2</b>	1	5
Boron	ppm	ASTM D5185m	6	<b>3</b>	43	<1
Barium	ppm	ASTM D5185m	0	<b>1</b>	0	0
Molybdenum	ppm	ASTM D5185m	0	<b>3</b>	35	<1
Manganese	ppm	ASTM D5185m		<b>4</b>	<1	8
Magnesium	ppm	ASTM D5185m	145	<b>98</b>	194	118
Calcium	ppm	ASTM D5185m	3570	<b>3321</b>	2818	3591
Phosphorus	ppm	ASTM D5185m	1290	<b>1052</b>	926	1044
Zinc	ppm	ASTM D5185m	1640	<b>1221</b>	1124	1294
Sulfur	ppm	ASTM D5185m		<b>3524</b>	3988	3921
Visc @ 40°C	cSt	ASTM D445	57.0	<b>52.5</b>	63.9	55.3



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0223376 **Received** : 01 Jul 2024  
**Lab Number** : 06224806 **Tested** : 02 Jul 2024  
**Unique Number** : 11103003 **Diagnosed** : 02 Jul 2024 - Don Baldrige  
**Test Package** : CONST ( Additional Tests: PQ )

**JRE - GREENSBORO**  
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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)