



WEAR  
CONTAMINATION  
FLUID CONDITION

**ATTENTION**  
**NORMAL**  
**NORMAL**

Machine Id  
**JOHN DEERE 544 P 1DW544PACPLZ16938**  
Component  
**Front Differential**  
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>JR0223379</b>	JR0205245	JR0138466
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	0
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>ATTENTION</b>	NORMAL	NORMAL

### WEAR

An increase in the iron level is noted. All other component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		<b>86</b>	8	70
Iron	ppm	ASTM D5185m	>500	<b>370</b>	1	189
Chromium	ppm	ASTM D5185m	>10	<b>3</b>	0	2
Nickel	ppm	ASTM D5185m	>10	<b>2</b>	<1	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>3</b>	2	4
Lead	ppm	ASTM D5185m	>25	<b>8</b>	0	5
Copper	ppm	ASTM D5185m	>100	<b>23</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	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

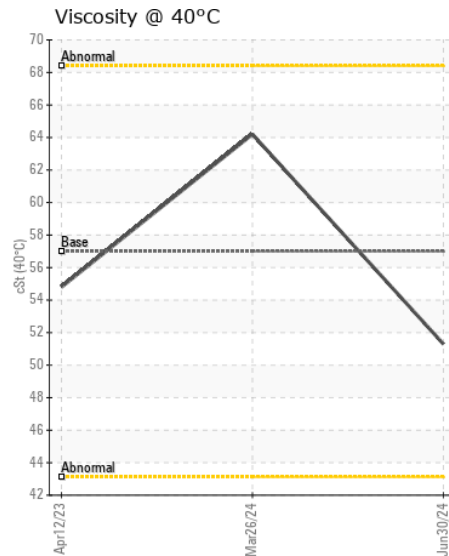
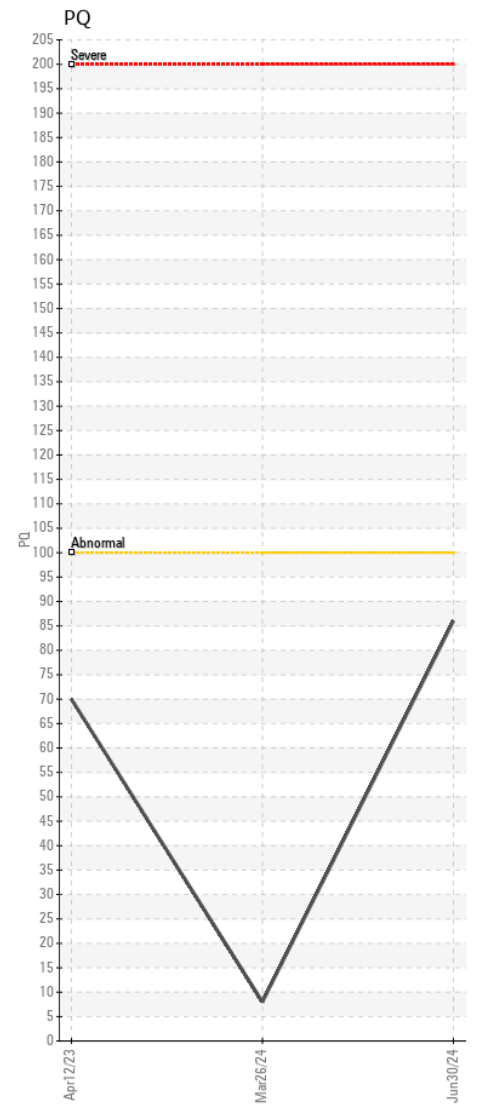
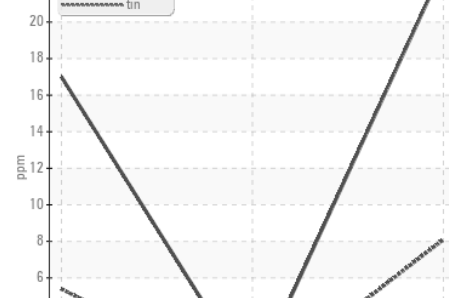
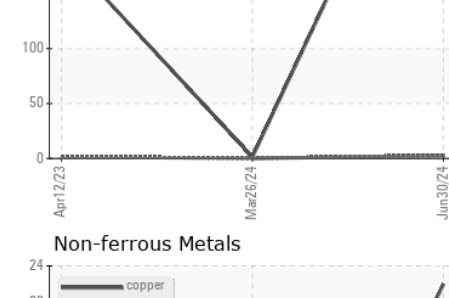
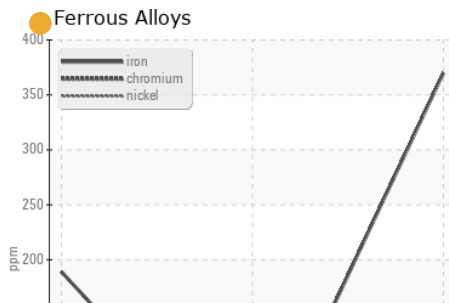
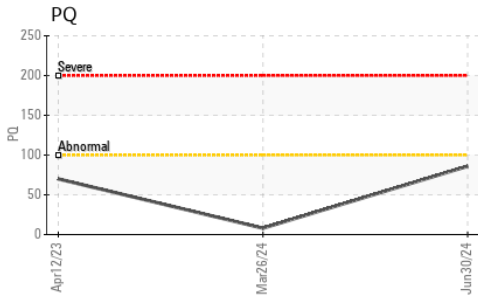
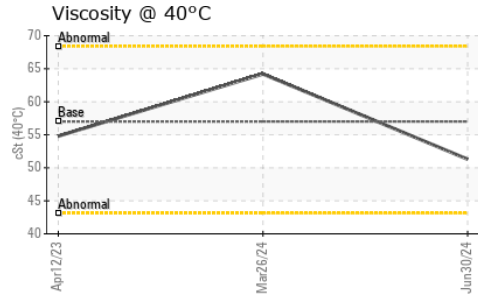
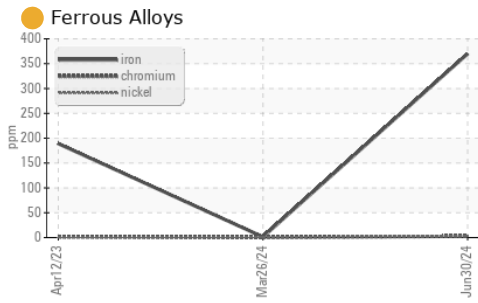
There is no indication of any contamination in the oil.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Silicon	ppm	ASTM D5185m	>75	<b>34</b>	5	24
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	<1	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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sodium	ppm	ASTM D5185m		<b>4</b>	1	5
Boron	ppm	ASTM D5185m	6	<b>8</b>	43	<1
Barium	ppm	ASTM D5185m	0	<b>2</b>	0	0
Molybdenum	ppm	ASTM D5185m	0	<b>16</b>	35	<1
Manganese	ppm	ASTM D5185m		<b>5</b>	<1	8
Magnesium	ppm	ASTM D5185m	145	<b>109</b>	196	118
Calcium	ppm	ASTM D5185m	3570	<b>3372</b>	2892	3560
Phosphorus	ppm	ASTM D5185m	1290	<b>1052</b>	913	1046
Zinc	ppm	ASTM D5185m	1640	<b>1224</b>	1131	1299
Sulfur	ppm	ASTM D5185m		<b>3542</b>	3802	3916
Visc @ 40°C	cSt	ASTM D445	57.0	<b>51.3</b>	64.2	54.8



Certificate L2367

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

Sample No. : JR0223379

Lab Number : 06224804

Unique Number : 11103001

Test Package : CONST ( Additional Tests: PQ )

Received : 01 Jul 2024

Tested : 02 Jul 2024

Diagnosed : 02 Jul 2024 - Don Baldridge

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

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