



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



Machine Id  
**1DW310EXCMF711937**  
Component  
**Front Differential**  
Fluid  
**JOHN DEERE HY-GARD HYD/TRANS (36 QTS)**

### RECOMMENDATION

The oil change at the time of sampling has been noted. 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>JR0210322</b>	JR0160378	JR0157399
Sample Date		Client Info		<b>06 Mar 2024</b>	01 Feb 2023	26 Jan 2023
Machine Age	hrs	Client Info		<b>4153</b>	1955	1945
Oil Age	hrs	Client Info		<b>4000</b>	0	1945
Filter Age	hrs	Client Info		<b>4000</b>	0	1445
Oil Changed		Client Info		<b>Changed</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>Changed</b>	N/A	Not Changd
Sample Status				<b>ABNORMAL</b>	NORMAL	NORMAL

### WEAR

Bearing and/or bushing wear is indicated.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		<b>122</b>	46	174
Iron	ppm	ASTM D5185m	>500	<b>284</b>	60	177
Chromium	ppm	ASTM D5185m	>10	<b>2</b>	<1	1
Nickel	ppm	ASTM D5185m	>10	<b>6</b>	<1	3
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>4</b>	1	2
Lead	ppm	ASTM D5185m	>25	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185m	>100	<b>▲ 314</b>	38	127
Tin	ppm	ASTM D5185m	>10	<b>▲ 11</b>	2	5
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

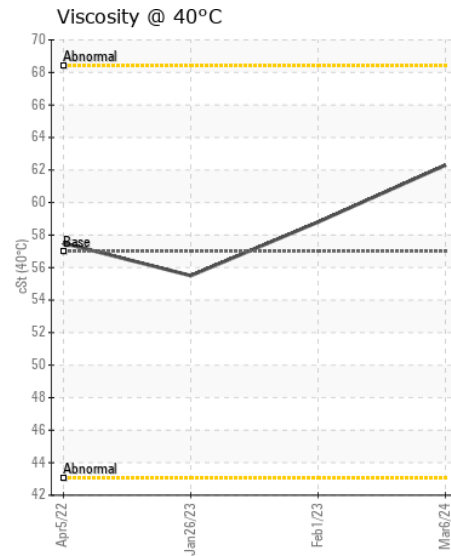
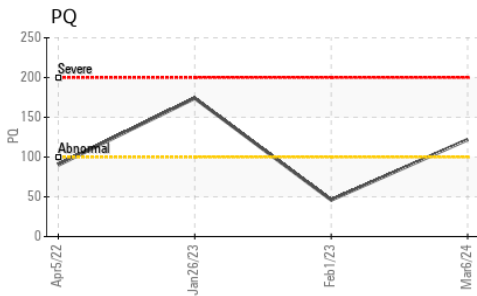
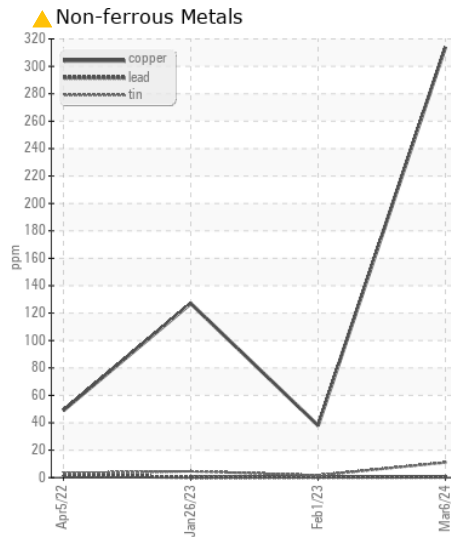
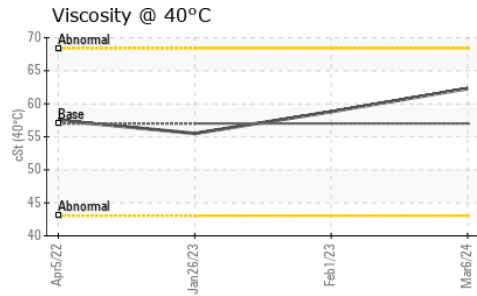
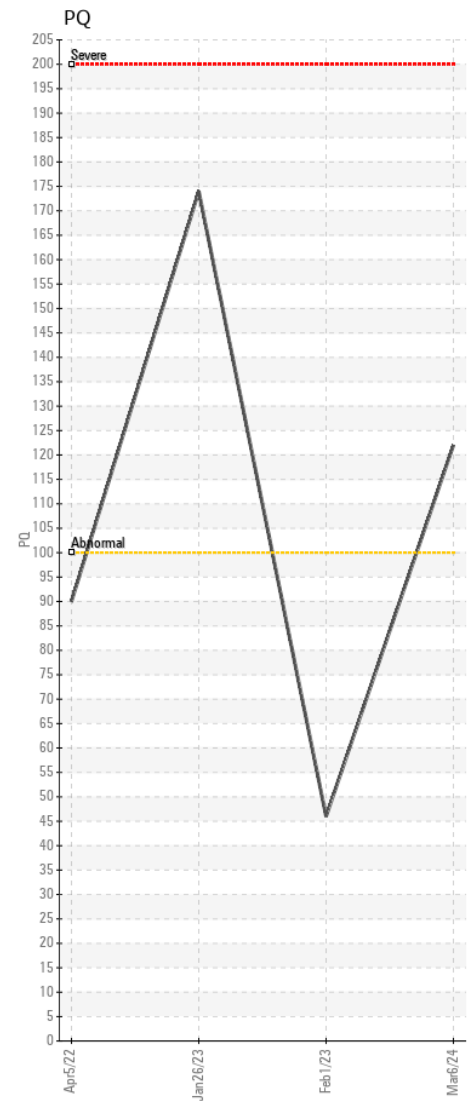
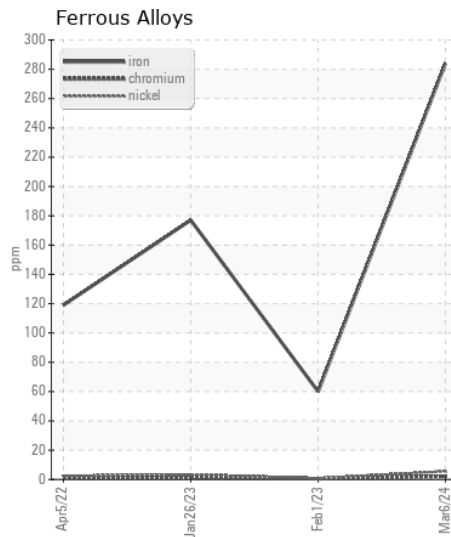
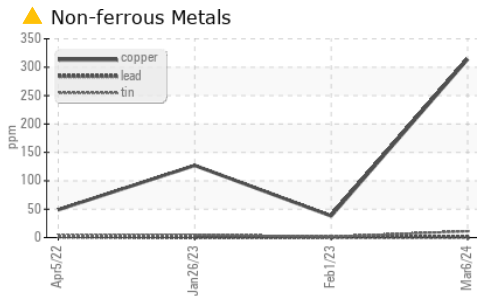
There is no indication of any contamination in the oil.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Silicon	ppm	ASTM D5185m	>75	<b>18</b>	7	11
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	0	0
Water		WC Method	>.2	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>LIGHT</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>7</b>	<1	10
Boron	ppm	ASTM D5185m	6	<b>25</b>	13	35
Barium	ppm	ASTM D5185m	0	<b>1</b>	0	<1
Molybdenum	ppm	ASTM D5185m	0	<b>9</b>	6	4
Manganese	ppm	ASTM D5185m		<b>12</b>	4	13
Magnesium	ppm	ASTM D5185m	145	<b>171</b>	108	82
Calcium	ppm	ASTM D5185m	3570	<b>5322</b>	3284	3216
Phosphorus	ppm	ASTM D5185m	1290	<b>1446</b>	951	969
Zinc	ppm	ASTM D5185m	1640	<b>1953</b>	1142	1132
Sulfur	ppm	ASTM D5185m		<b>5775</b>	3881	3624
Visc @ 40°C	cSt	ASTM D445	57.0	<b>62.3</b>	58.8	55.5



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0210322 **Received** : 20 Mar 2024  
**Lab Number** : 06123942 **Tested** : 21 Mar 2024  
**Unique Number** : 10938093 **Diagnosed** : 22 Mar 2024 - Don Baldrige  
**Test Package** : CONST ( Additional Tests: PQ )

**PATRIOT DEVELOPMENT CORP**  
 22721 LADBROOK DRIVE STE 120  
 STERLING, VA  
 US 20166  
 Contact: ROBERT MOSS  
 robert.moss@patriotdev.net

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)

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F: