



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

Machine Id  
**JOHN DEERE 748L 1DW748LBCKF702411**

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>JR0193995</b>	JR0186663	JR0167971
Sample Date		Client Info		<b>12 Dec 2023</b>	09 Sep 2023	21 Jun 2023
Machine Age	hrs	Client Info		<b>8090</b>	7541	7082
Oil Age	hrs	Client Info		<b>6692</b>	6143	6714
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>Changed</b>	Not Changd	Changed
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>32</b>	25	20
Iron	ppm	ASTM D5185m	>500	<b>76</b>	69	63
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>25	<b>&lt;1</b>	0	0
Lead	ppm	ASTM D5185m	>25	<b>2</b>	0	3
Copper	ppm	ASTM D5185m	>100	<b>18</b>	17	15
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	MODER	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

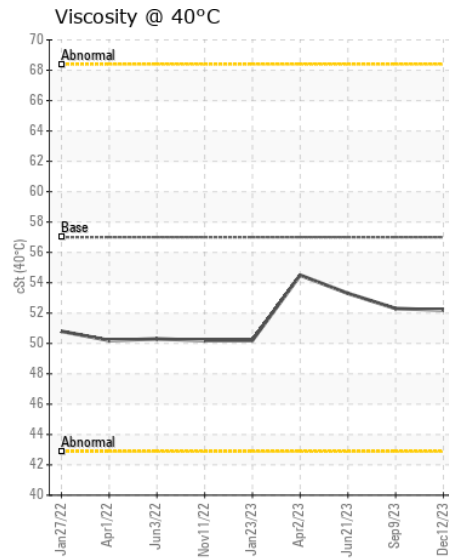
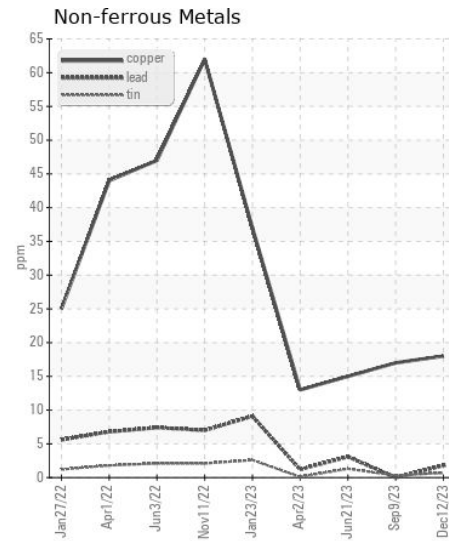
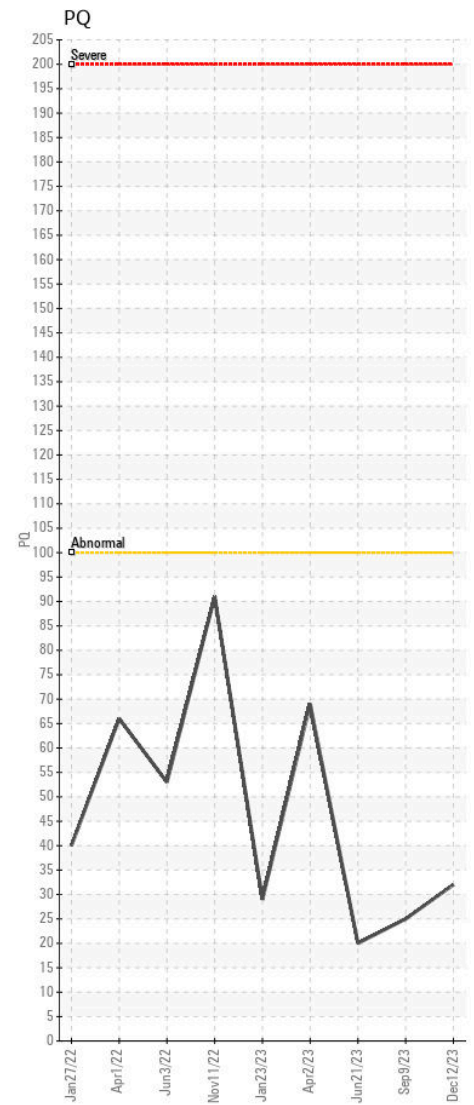
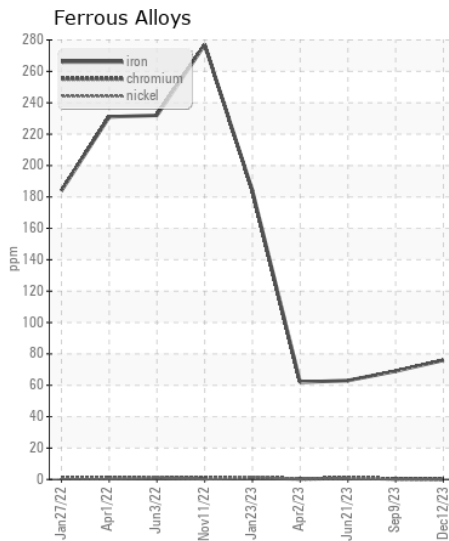
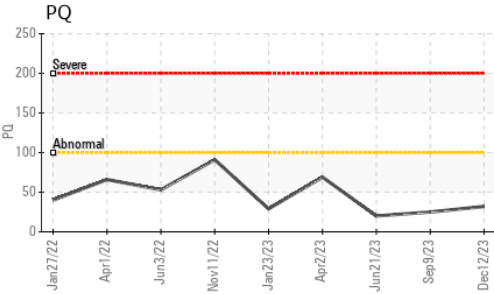
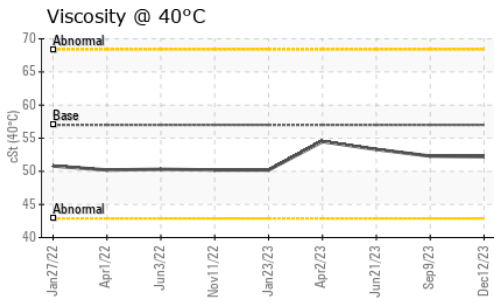
There is no indication of any contamination in the fluid.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Silicon	ppm	ASTM D5185m	>75	<b>4</b>	5	4
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	0	<1
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 fluid is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sodium	ppm	ASTM D5185m		<b>&lt;1</b>	2	2
Boron	ppm	ASTM D5185m	6	<b>&lt;1</b>	2	<1
Barium	ppm	ASTM D5185m	0	<b>0</b>	<1	5
Molybdenum	ppm	ASTM D5185m	0	<b>0</b>	0	2
Manganese	ppm	ASTM D5185m		<b>2</b>	1	2
Magnesium	ppm	ASTM D5185m	145	<b>100</b>	103	111
Calcium	ppm	ASTM D5185m	3570	<b>3283</b>	3384	3568
Phosphorus	ppm	ASTM D5185m	1290	<b>989</b>	997	1048
Zinc	ppm	ASTM D5185m	1640	<b>1221</b>	1205	1278
Sulfur	ppm	ASTM D5185m		<b>3435</b>	4517	4180
Visc @ 40°C	cSt	ASTM D445	57.0	<b>52.2</b>	52.3	53.3



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0193995 **Received** : 14 Dec 2023  
**Lab Number** : 06034815 **Diagnosed** : 18 Dec 2023  
**Unique Number** : 10790044 **Diagnostician** : Sean Felton  
**Test Package** : CONST ( Additional Tests: PQ )

**JRE - GARNER**  
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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)