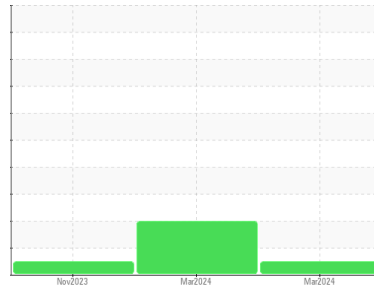


# OIL ANALYSIS REPORT

**Sample Rating Trend**

**NORMAL**


Machine Id  
**JOHN DEERE 748L 1DW748LBKPL717741**  
 Component  
**Rear Differential**  
 Fluid  
**JOHN DEERE HY-GARD HYD/TRANS (--- GAL)**

**DIAGNOSIS**
**Recommendation**

Resample at the next service interval to monitor.

**Wear**

All component wear rates are normal.

**Contamination**

There is no indication of any contamination in the oil.

**Fluid Condition**

The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>JR0200371</b>	JR0196598	JR0179124
Sample Date	Client Info			<b>28 Mar 2024</b>	13 Mar 2024	03 Nov 2023
Machine Age	hrs	Client Info		<b>1101</b>	1000	479
Oil Age	hrs	Client Info		<b>622</b>	0	479
Oil Changed	Client Info			<b>Changed</b>	Not Changd	Changed
Sample Status				<b>NORMAL</b>	ABNORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Water	WC Method		>.2	<b>NEG</b>	NEG	NEG

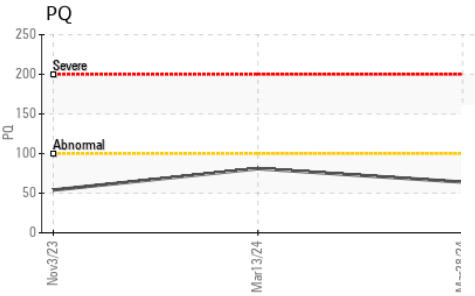
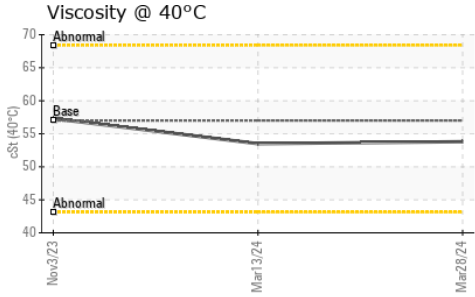
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		<b>64</b>	81	54
Iron	ppm	ASTM D5185m	>500	<b>89</b>	84	141
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	<1	<1
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>2</b>	2	<1
Lead	ppm	ASTM D5185m	>25	<b>&lt;1</b>	1	2
Copper	ppm	ASTM D5185m	>100	<b>10</b>	12	23
Tin	ppm	ASTM D5185m	>10	<b>0</b>	<1	1
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	0
Cadmium	ppm	ASTM D5185m		<b>0</b>	<1	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	6	<b>6</b>	10	2
Barium	ppm	ASTM D5185m	0	<b>0</b>	<1	6
Molybdenum	ppm	ASTM D5185m	0	<b>4</b>	4	0
Manganese	ppm	ASTM D5185m		<b>2</b>	2	4
Magnesium	ppm	ASTM D5185m	145	<b>107</b>	112	98
Calcium	ppm	ASTM D5185m	3570	<b>3432</b>	3524	3310
Phosphorus	ppm	ASTM D5185m	1290	<b>1017</b>	1055	919
Zinc	ppm	ASTM D5185m	1640	<b>1237</b>	1226	1174
Sulfur	ppm	ASTM D5185m		<b>4572</b>	4885	3343

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	<b>7</b>	6	6
Sodium	ppm	ASTM D5185m		<b>2</b>	0	7
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	2	0

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	▲ HEAVY	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>	0.2%	NEG
Free Water	scalar	*Visual		<b>NEG</b>	NEG	NEG

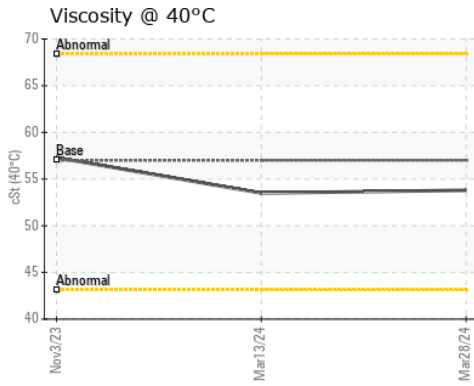
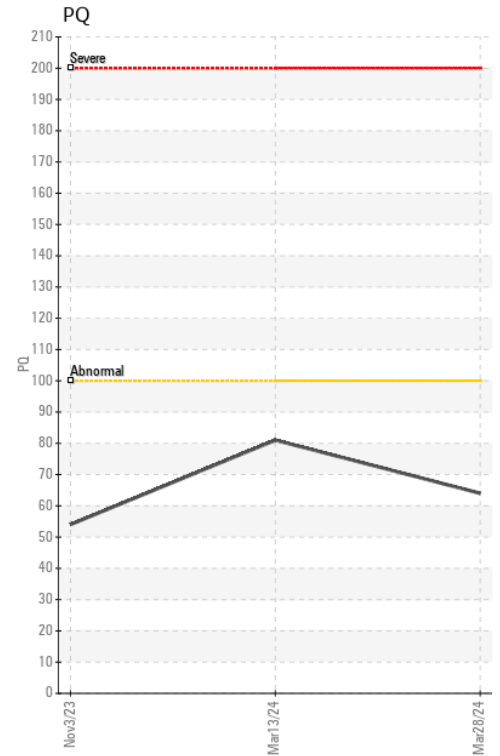
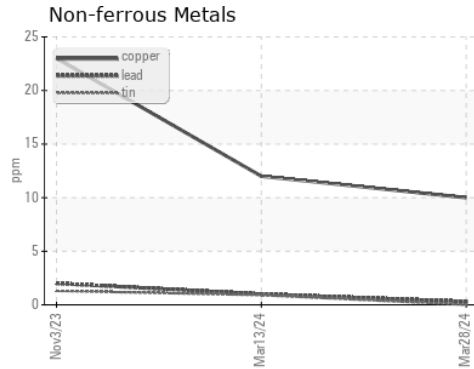
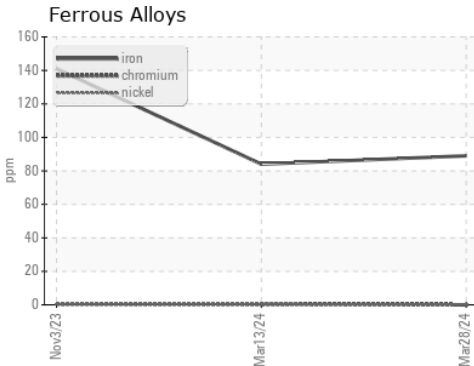
# OIL ANALYSIS REPORT



FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	57.0	<b>53.8</b>	53.5	57.3

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				no image	no image
Bottom				no image	no image

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0200371      **Received** : 29 Mar 2024  
**Lab Number** : **06133586**      **Tested** : 17 Apr 2024  
**Unique Number** : 10953051      **Diagnosed** : 17 Apr 2024 - Wes Davis  
**Test Package** : CONST ( Additional Tests: PQ )

**JRE - ASHLAND**  
 11047 LEADBETTER RD  
 ASHLAND, VA  
 US 23005  
 Contact: DAVID ZIEG  
 dzieg@jamesriverequipment.com  
 T: (804)798-6001  
 F: (804)798-0292

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)