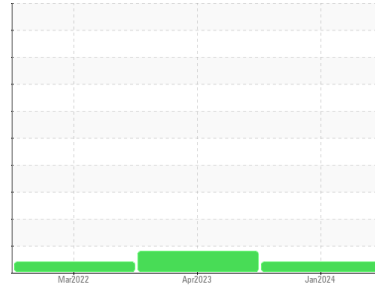


Machine Id  
**JOHN DEERE 324G 1T0324GKAMJ400490**  
 Component  
**Hydraulic System**  
 Fluid  
**JOHN DEERE HYDRAU (--- QTS)**


**DIAGNOSIS**
**Recommendation**

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.

**Wear**

All component wear rates are normal.

**Contamination**

Moderate concentration of visible dirt/debris present in the oil.

**Fluid Condition**

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>JR0200220</b>	JR0164406	JR0125407
Sample Date	Client Info		<b>15 Jan 2024</b>	17 Apr 2023	22 Mar 2022
Machine Age	hrs	Client Info	<b>1491</b>	1013	456
Oil Age	hrs	Client Info	<b>0</b>	1013	0
Oil Changed	Client Info		<b>Not Changed</b>	Changed	Not Changed
Sample Status			<b>ABNORMAL</b>	ATTENTION	ATTENTION

CONTAMINATION	method	limit/base	current	history1	history2
Water	WC Method	>0.1	<b>NEG</b>	NEG	NEG

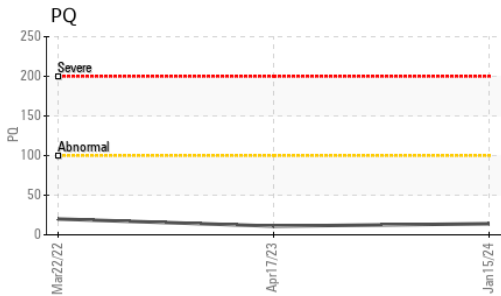
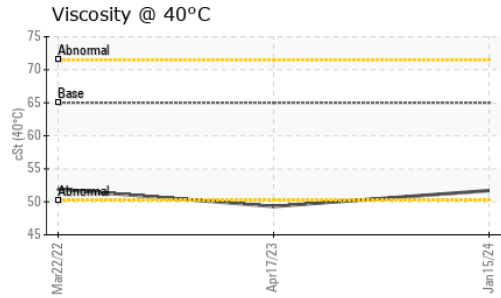
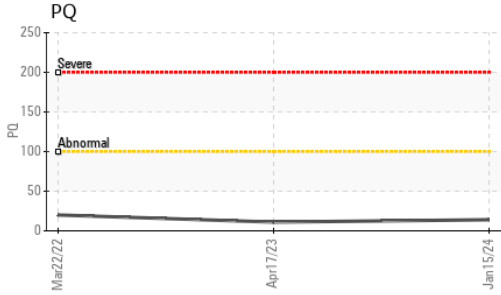
WEAR METALS	method	limit/base	current	history1	history2
PQ	ASTM D8184		<b>14</b>	11	20
Iron	ppm	ASTM D5185m >20	<b>19</b>	18	12
Chromium	ppm	ASTM D5185m >10	<b>2</b>	1	<1
Nickel	ppm	ASTM D5185m >10	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m	<b>0</b>	0	0
Silver	ppm	ASTM D5185m	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m >10	<b>3</b>	4	2
Lead	ppm	ASTM D5185m >10	<b>1</b>	0	2
Copper	ppm	ASTM D5185m >75	<b>7</b>	9	8
Tin	ppm	ASTM D5185m >10	<b>0</b>	0	<1
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

ADDITIVES	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>0</b>	0	6
Barium	ppm	ASTM D5185m	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>&lt;1</b>	<1	2
Manganese	ppm	ASTM D5185m	<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185m	<b>14</b>	4	9
Calcium	ppm	ASTM D5185m 87	<b>168</b>	171	176
Phosphorus	ppm	ASTM D5185m 727	<b>638</b>	582	624
Zinc	ppm	ASTM D5185m 900	<b>848</b>	797	900
Sulfur	ppm	ASTM D5185m 1500	<b>1835</b>	1989	1692

CONTAMINANTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	<b>2</b>	2	2
Sodium	ppm	ASTM D5185m	<b>1</b>	2	0
Potassium	ppm	ASTM D5185m >20	<b>2</b>	<1	2

FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	---	▲ 8139	▲ 5876
Particles >6µm	ASTM D7647	>1300	---	223	205
Particles >14µm	ASTM D7647	>160	---	21	23
Particles >21µm	ASTM D7647	>40	---	7	6
Particles >38µm	ASTM D7647	>10	---	0	1
Particles >71µm	ASTM D7647	>3	---	0	0
Oil Cleanliness	ISO 4406 (c)	>19/17/14	---	▲ 20/15/12	▲ 20/15/12

# OIL ANALYSIS REPORT

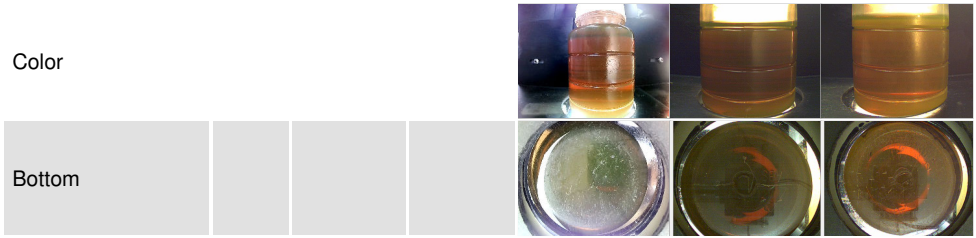


FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	<b>0.68</b>	0.75	0.66

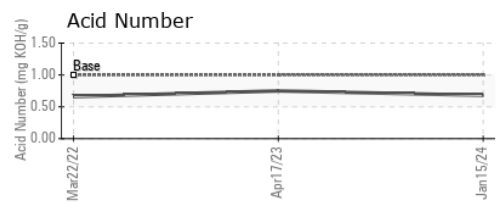
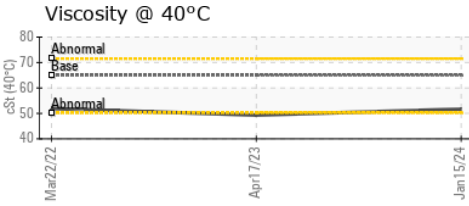
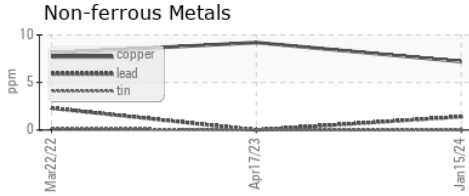
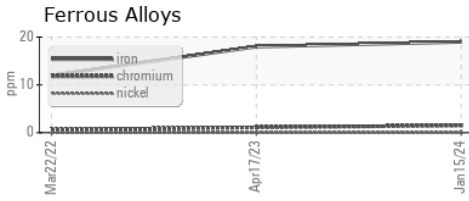
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	<b>LIGHT</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>▲ MODER</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	>0.1	<b>NEG</b>	NEG	NEG
Free Water	scalar	*Visual		<b>NEG</b>	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	65	<b>51.7</b>	49.3	51.9

SAMPLE IMAGES		method	limit/base	current	history1	history2
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## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0200220 **Recieved** : 17 Jan 2024  
**Lab Number** : **06062533** **Diagnosed** : 18 Jan 2024  
**Unique Number** : 10833915 **Diagnostician** : Don Baldrige  
**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)