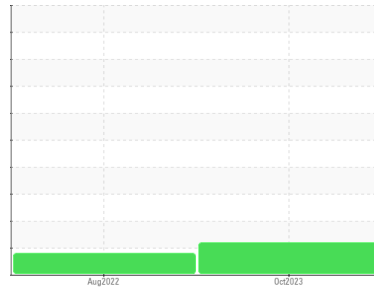


# PROBLEM SUMMARY

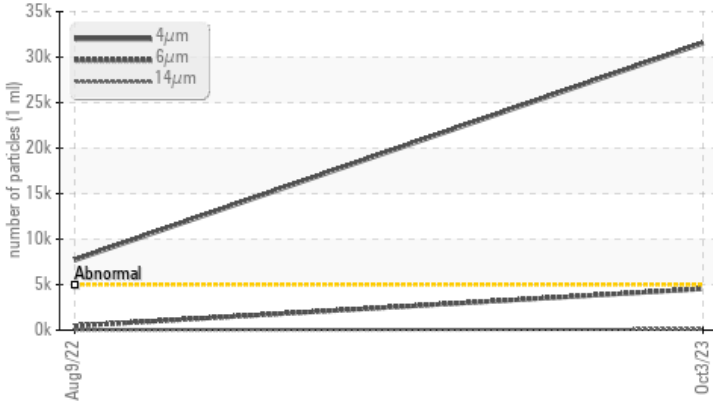
Area  
**[W47006]**  
 Machine Id  
**JOHN DEERE 323E 1T0323EKTJJ328397**  
 Component  
**Hydraulic System**  
 Fluid  
**JOHN DEERE HYDRAU (--- GAL)**

Sample Rating Trend



## COMPONENT CONDITION SUMMARY

▲ Particle Trend



## RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

## PROBLEMATIC TEST RESULTS

Sample Status			<b>ABNORMAL</b>	ATTENTION	---
Particles >4µm	ASTM D7647	>5000	▲ <b>31531</b>	▲ 7695	---
Particles >6µm	ASTM D7647	>1300	▲ <b>4545</b>	470	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ <b>22/19/14</b>	▲ 20/16/12	---

Customer Id: JAMASH  
 Sample No.: JR0179332  
 Lab Number: 05968837  
 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data:  
 Don Baldrige +1  
[don.b505@comcast.net](mailto:don.b505@comcast.net)

To change component or sample information:  
 Customer Service +1 1-800-237-1369  
[customerservice@wearcheck.com](mailto:customerservice@wearcheck.com)

## RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Filter	---	---	?	We recommend you service the filters on this component.

## HISTORICAL DIAGNOSIS

09 Aug 2022 Diag: Jonathan Hester

ISO



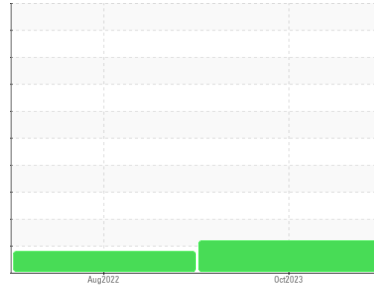
No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of silt (particulates < 6 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oils additive package is suitable for further service.

view report



# OIL ANALYSIS REPORT

Sample Rating Trend


**ISO**


Area

**[W47006]**

Machine Id

**JOHN DEERE 323E 1T0323EKTJJ328397**

Component

**Hydraulic System**

Fluid

**JOHN DEERE HYDRAU (--- GAL)**
**DIAGNOSIS**
**▲ Recommendation**

We recommend you service the filters on this component. Resample at the next service interval to monitor.

**Wear**

All component wear rates are normal.

**▲ Contamination**

There is a high amount of silt (particulates < 14 microns in size) 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>JR0179332</b>	JR0124001	---
Sample Date	Client Info		<b>03 Oct 2023</b>	09 Aug 2022	---
Machine Age	hrs	Client Info	<b>824</b>	362	---
Oil Age	hrs	Client Info	<b>824</b>	362	---
Oil Changed	Client Info		<b>Not Chngd</b>	Not Chngd	---
Sample Status			<b>ABNORMAL</b>	ATTENTION	---

**WEAR METALS**

	method	limit/base	current	history1	history2
PQ	ASTM D8184		<b>15</b>	19	---
Iron	ppm	ASTM D5185m >20	<b>22</b>	18	---
Chromium	ppm	ASTM D5185m >10	<b>5</b>	2	---
Nickel	ppm	ASTM D5185m >10	<b>0</b>	0	---
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	---
Silver	ppm	ASTM D5185m	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m >10	<b>5</b>	3	---
Lead	ppm	ASTM D5185m >10	<b>2</b>	4	---
Copper	ppm	ASTM D5185m >75	<b>17</b>	33	---
Tin	ppm	ASTM D5185m >10	<b>&lt;1</b>	1	---
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	---
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	---

**ADDITIVES**

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>0</b>	4	---
Barium	ppm	ASTM D5185m	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m	<b>2</b>	3	---
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185m	<b>10</b>	15	---
Calcium	ppm	ASTM D5185m 87	<b>140</b>	203	---
Phosphorus	ppm	ASTM D5185m 727	<b>534</b>	556	---
Zinc	ppm	ASTM D5185m 900	<b>737</b>	754	---
Sulfur	ppm	ASTM D5185m 1500	<b>1800</b>	1772	---

**CONTAMINANTS**

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	<b>5</b>	4	---
Sodium	ppm	ASTM D5185m	<b>2</b>	0	---
Potassium	ppm	ASTM D5185m >20	<b>2</b>	4	---

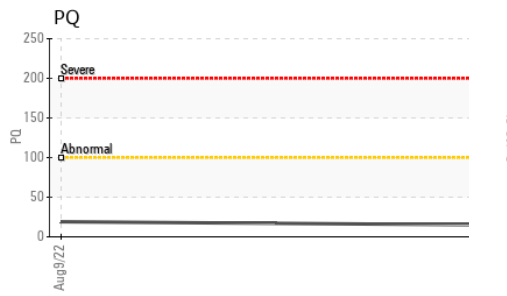
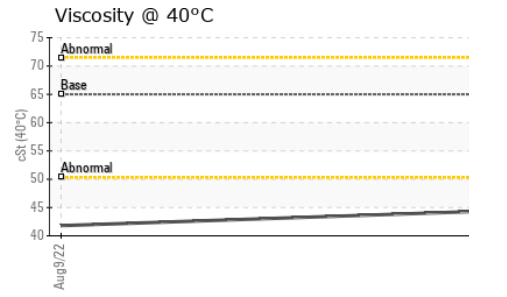
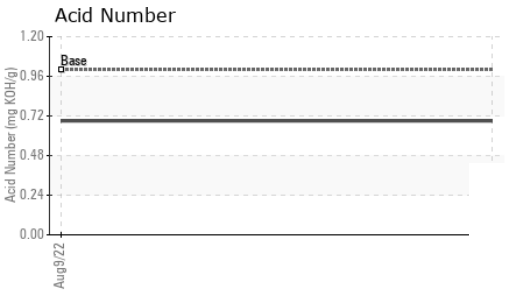
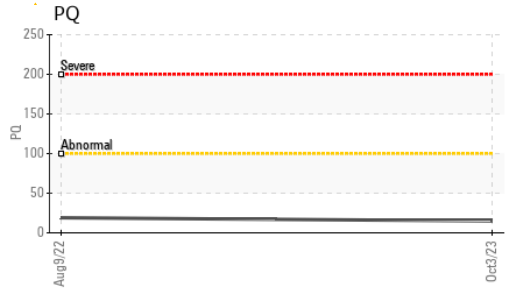
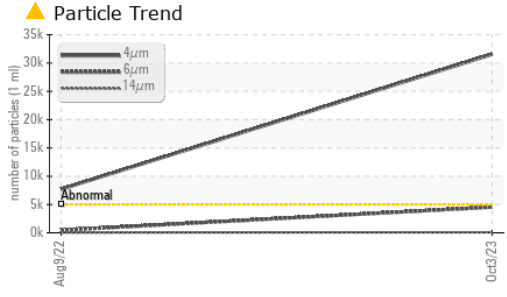
**FLUID CLEANLINESS**

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	<b>▲ 31531</b>	▲ 7695	---
Particles >6µm	ASTM D7647	>1300	<b>▲ 4545</b>	470	---
Particles >14µm	ASTM D7647	>160	<b>89</b>	38	---
Particles >21µm	ASTM D7647	>40	<b>12</b>	7	---
Particles >38µm	ASTM D7647	>10	<b>0</b>	0	---
Particles >71µm	ASTM D7647	>3	<b>0</b>	0	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<b>▲ 22/19/14</b>	▲ 20/16/12	---

**FLUID DEGRADATION**

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 1.0	<b>0.69</b>	0.69	---

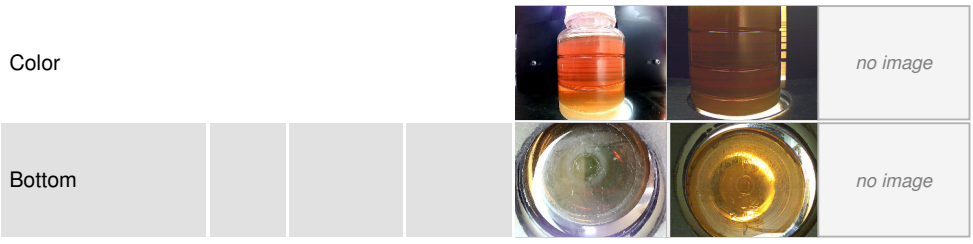
# OIL ANALYSIS REPORT



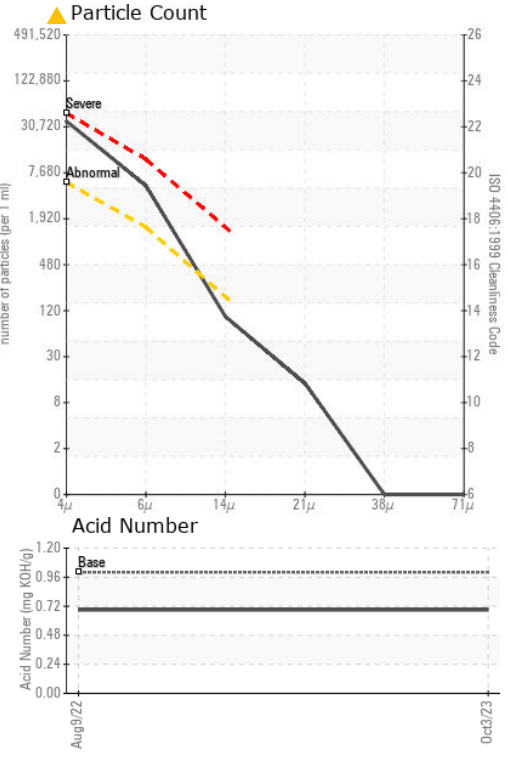
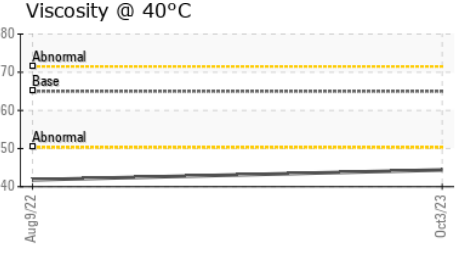
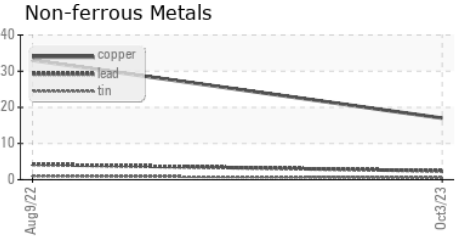
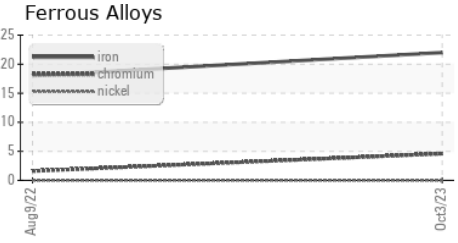
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.1	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 65	<b>44.4</b>	41.8	---

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0179332 **Received** : 04 Oct 2023  
**Lab Number** : **05968837** **Diagnosed** : 06 Oct 2023  
**Unique Number** : 10675388 **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)