



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

Machine Id  
**JOHN DEERE 5055E 1PY5055EHFY110189**

Component  
**Hydraulic System**

Fluid  
**{not provided} (--- QTS)**

### RECOMMENDATION

We recommend you service the filters on this component. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0145275</b>	---	---
Sample Date		Client Info		<b>08 Dec 2023</b>	---	---
Machine Age	hrs	Client Info		<b>1182</b>	---	---
Oil Age	hrs	Client Info		<b>0</b>	---	---
Filter Age	hrs	Client Info		<b>0</b>	---	---
Oil Changed		Client Info		<b>N/A</b>	---	---
Filter Changed		Client Info		<b>N/A</b>	---	---
Sample Status				<b>SEVERE</b>	---	---

### WEAR

The iron level is severe. The copper level is severe.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
Iron	ppm	ASTM D5185m	>20	<b>▲ 113</b>	---	---
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	---	---
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	---	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Silver	ppm	ASTM D5185m		<b>0</b>	---	---
Aluminum	ppm	ASTM D5185m	>10	<b>2</b>	---	---
Lead	ppm	ASTM D5185m	>10	<b>2</b>	---	---
Copper	ppm	ASTM D5185m	>75	<b>▲ 222</b>	---	---
Tin	ppm	ASTM D5185m	>10	<b>4</b>	---	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	---	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---

### CONTAMINATION

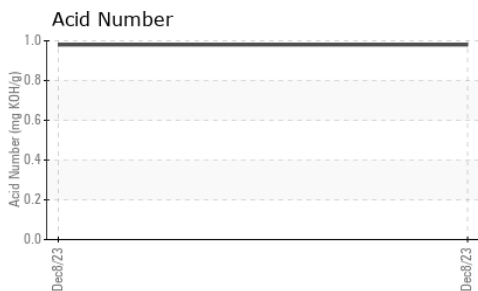
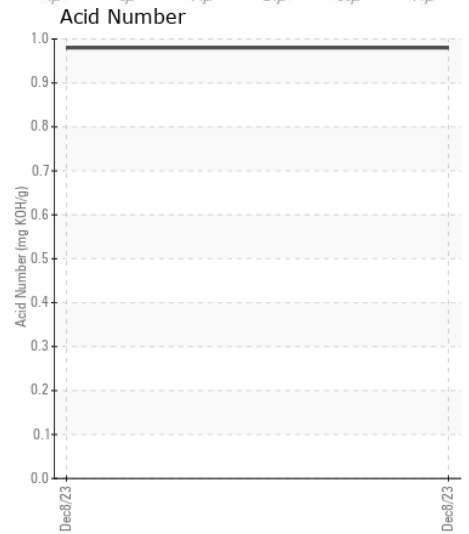
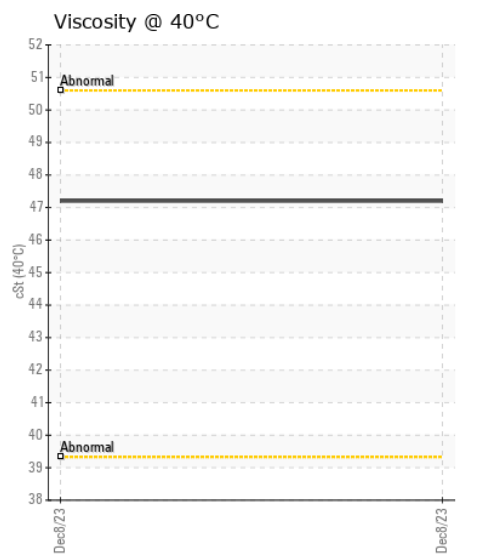
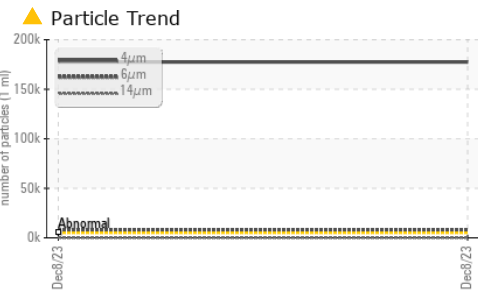
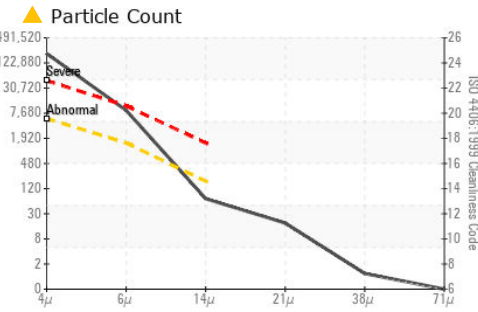
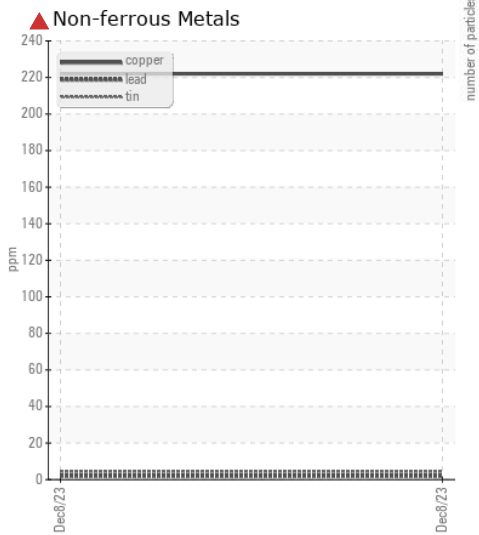
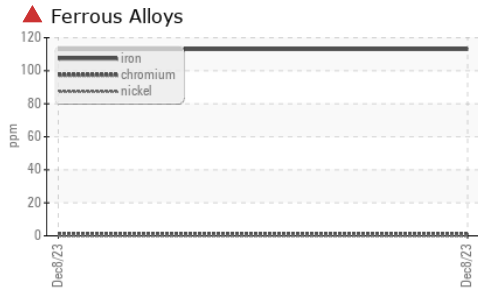
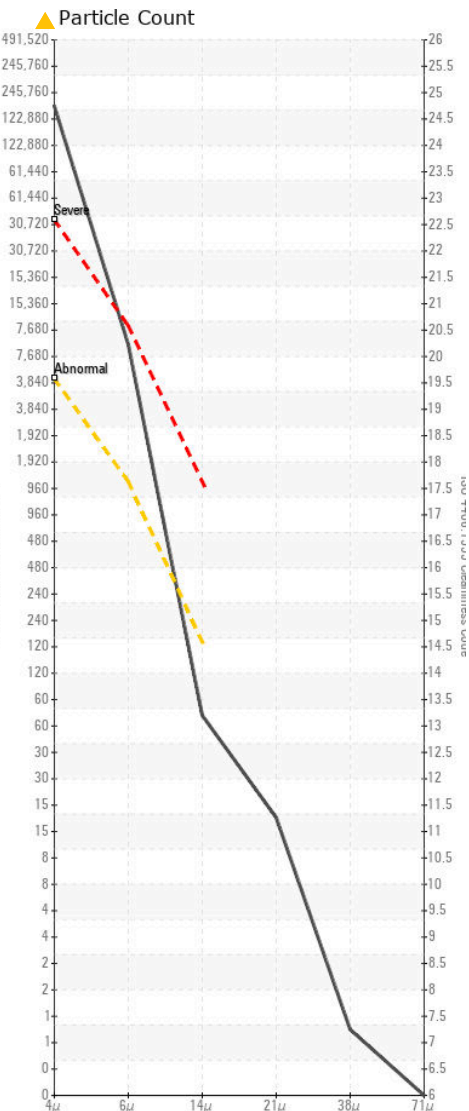
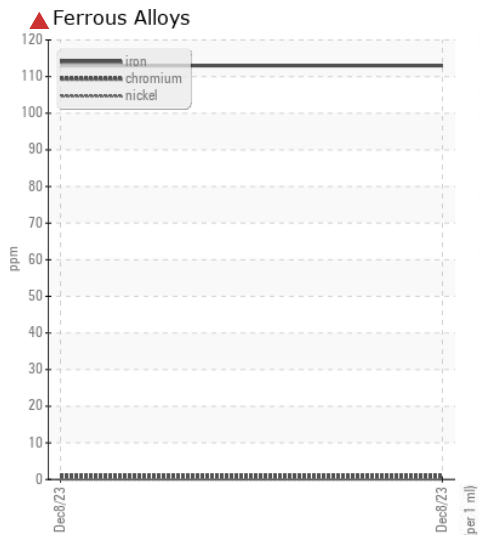
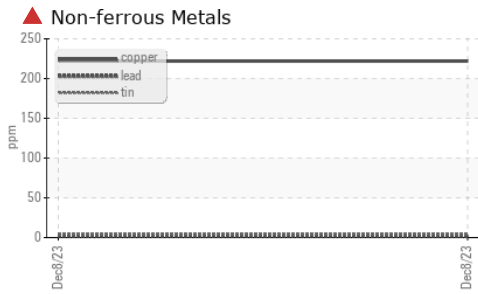
There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Silicon	ppm	ASTM D5185m	>20	<b>14</b>	---	---
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	---	---
Water		WC Method	>0.1	<b>NEG</b>	---	---
Particles >4µm		ASTM D7647	>5000	<b>▲ 177444</b>	---	---
Particles >6µm		ASTM D7647	>1300	<b>▲ 7827</b>	---	---
Particles >14µm		ASTM D7647	>160	<b>61</b>	---	---
Particles >21µm		ASTM D7647	>40	<b>16</b>	---	---
Particles >38µm		ASTM D7647	>10	<b>1</b>	---	---
Particles >71µm		ASTM D7647	>3	<b>0</b>	---	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>▲ 25/20/13</b>	---	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	---	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	---	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	---	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	---	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	---	---
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	---	---

### FLUID CONDITION

The AN level is acceptable for this fluid.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sodium	ppm	ASTM D5185m		<b>7</b>	---	---
Boron	ppm	ASTM D5185m		<b>5</b>	---	---
Barium	ppm	ASTM D5185m		<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Manganese	ppm	ASTM D5185m		<b>3</b>	---	---
Magnesium	ppm	ASTM D5185m		<b>78</b>	---	---
Calcium	ppm	ASTM D5185m		<b>2932</b>	---	---
Phosphorus	ppm	ASTM D5185m		<b>979</b>	---	---
Zinc	ppm	ASTM D5185m		<b>1151</b>	---	---
Sulfur	ppm	ASTM D5185m		<b>3545</b>	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.98</b>	---	---
Visc @ 40°C	cSt	ASTM D445		<b>47.2</b>	---	---



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0145275 **Received** : 11 Dec 2023  
**Lab Number** : 06030436 **Tested** : 13 Dec 2023  
**Unique Number** : 10780227 **Diagnosed** : 13 Dec 2023 - Don Baldrige  
**Test Package** : CONST ( Additional Tests: PQ )

**JRE - HARRISONBURG**  
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 US 22801  
 Contact: TERRY PUFFENBARGER  
 terry.puffenbarger@jamesriverequipment.com  
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 F:

Certificate L2367  
 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)