



**James River  
Equipment**

**OIL ANALYSIS REPORT**

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

Machine Id  
**JOHN DEERE 331G 1T0331GKLN424449**  
Component  
**Right Final Drive**  
Fluid  
**GEAR OIL SAE 80W90 (--- GAL)**

**RECOMMENDATION**

We recommend that you drain the oil from the component if this has not already been done. 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>JR0221276</b>	---	---
Sample Date		Client Info		<b>03 Jul 2024</b>	---	---
Machine Age	hrs	Client Info		<b>559</b>	---	---
Oil Age	hrs	Client Info		<b>0</b>	---	---
Filter Age	hrs	Client Info		<b>0</b>	---	---
Oil Changed		Client Info		<b>Not Changd</b>	---	---
Filter Changed		Client Info		<b>Not Changd</b>	---	---
Sample Status				<b>SEVERE</b>	---	---

**WEAR**

Gear wear is indicated.

PQ		ASTM D8184	>1250	<b>60</b>	---	---
Iron	ppm	ASTM D5185m	>750	<b>▲ 1986</b>	---	---
Chromium	ppm	ASTM D5185m	>9	<b>▲ 39</b>	---	---
Nickel	ppm	ASTM D5185m	>10	<b>5</b>	---	---
Titanium	ppm	ASTM D5185m		<b>2</b>	---	---
Silver	ppm	ASTM D5185m		<b>0</b>	---	---
Aluminum	ppm	ASTM D5185m	>40	<b>19</b>	---	---
Lead	ppm	ASTM D5185m	>15	<b>0</b>	---	---
Copper	ppm	ASTM D5185m	>40	<b>2</b>	---	---
Tin	ppm	ASTM D5185m	>10	<b>0</b>	---	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---

**CONTAMINATION**

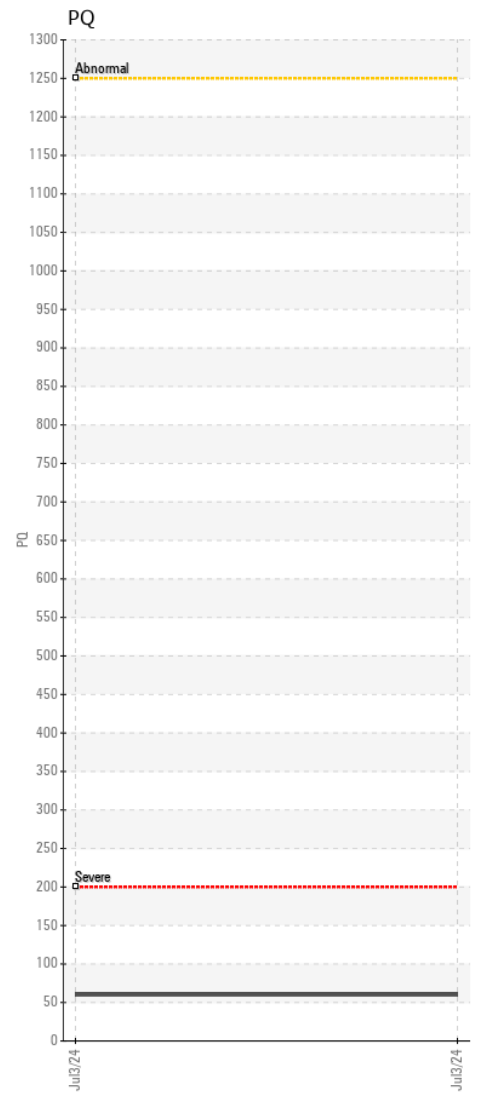
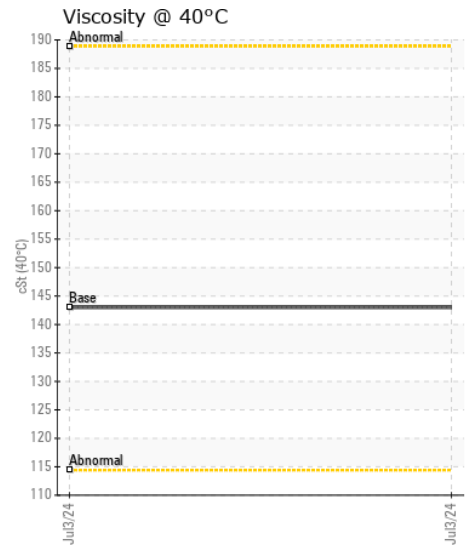
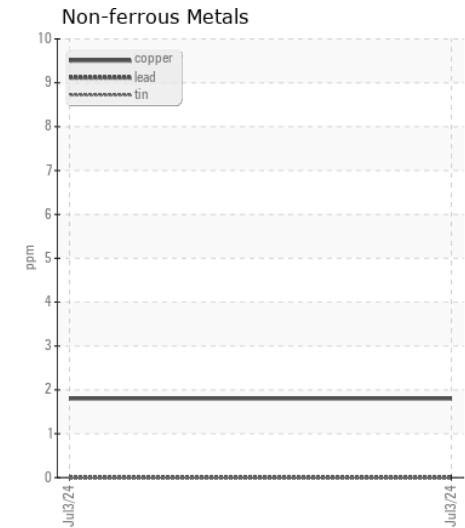
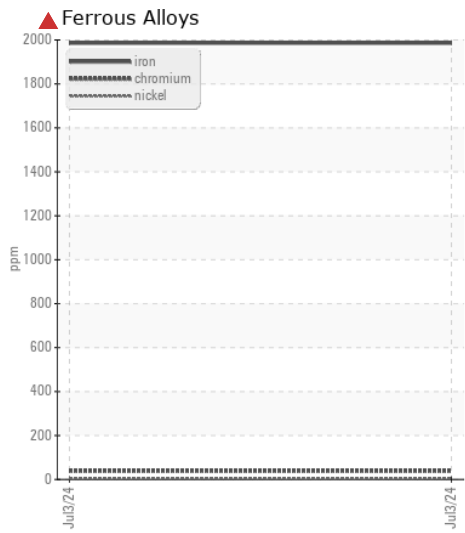
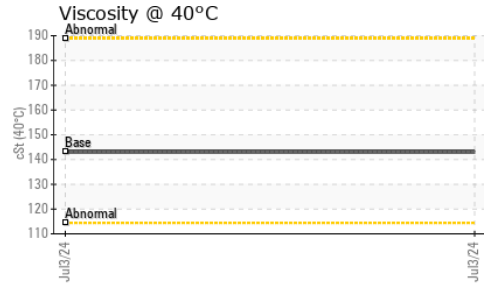
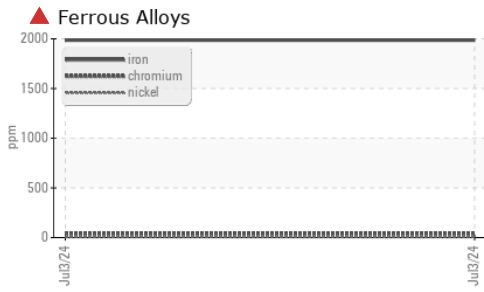
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	<b>59</b>	---	---
Potassium	ppm	ASTM D5185m	>20	<b>64</b>	---	---
Water		WC Method	>0.075	<b>NEG</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	>0.075	<b>NEG</b>	---	---

**FLUID CONDITION**

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Sodium	ppm	ASTM D5185m	>170	<b>15</b>	---	---
Boron	ppm	ASTM D5185m	400	<b>80</b>	---	---
Barium	ppm	ASTM D5185m	200	<b>95</b>	---	---
Molybdenum	ppm	ASTM D5185m	12	<b>4</b>	---	---
Manganese	ppm	ASTM D5185m		<b>22</b>	---	---
Magnesium	ppm	ASTM D5185m	12	<b>11</b>	---	---
Calcium	ppm	ASTM D5185m	150	<b>31</b>	---	---
Phosphorus	ppm	ASTM D5185m	1650	<b>825</b>	---	---
Zinc	ppm	ASTM D5185m	125	<b>57</b>	---	---
Sulfur	ppm	ASTM D5185m	22500	<b>20448</b>	---	---
Visc @ 40°C	cSt	ASTM D445	143	<b>143</b>	---	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : JR0221276

Lab Number : 06235203

Unique Number : 11124037

Test Package : CONST ( Additional Tests: PQ )

Received : 12 Jul 2024

Tested : 15 Jul 2024

Diagnosed : 16 Jul 2024 - Sean Felton

JRE - STEPHENSON

245 YARDMASTER COURT

STEPHENSON, VA

US 22656-1761

Contact: PHIL DAUGHERTY

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T: x:

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)

F: (540)693-2588