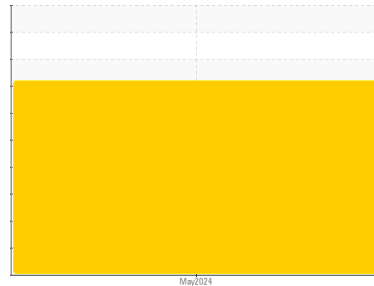


# PROBLEM SUMMARY

Sample Rating Trend

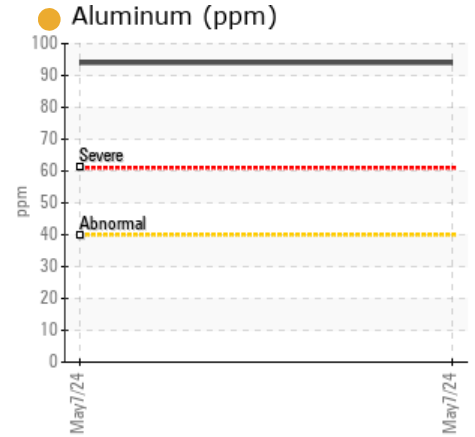
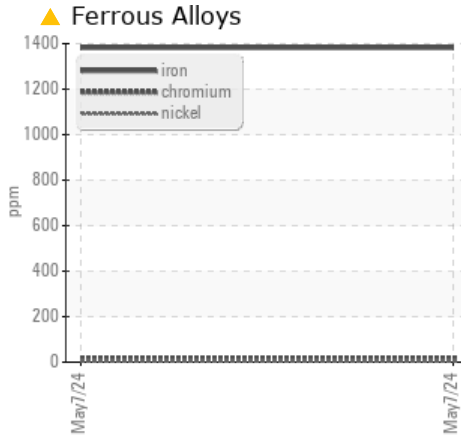
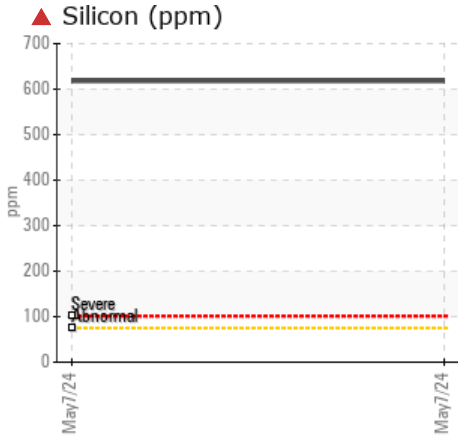


**DIRT**



Machine Id  
**JOHN DEERE 160G 1FF160GXKMF058261**  
 Component  
**Right Final Drive**  
 Fluid  
**JOHN DEERE GL-5 80W90 (--- GAL)**

## COMPONENT CONDITION SUMMARY



## RECOMMENDATION

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

## PROBLEMATIC TEST RESULTS

Sample Status				<b>SEVERE</b>	---	---
Iron	ppm	ASTM D5185m	>750	<b>▲ 1382</b>	---	---
Chromium	ppm	ASTM D5185m	>9	<b>▲ 20</b>	---	---
Silicon	ppm	ASTM D5185m	>75	<b>▲ 618</b>	---	---

**Customer Id:** JAMASH  
**Sample No.:** JR0211452  
**Lab Number:** 06174171  
**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)

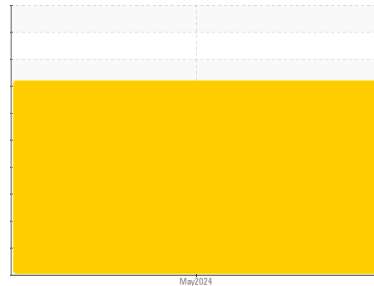
## RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Fluid	---	---	?	We recommend that you drain the oil from the component if this has not already been done.
Resample	---	---	?	We recommend an early resample to monitor this condition.
Check Dirt Access	---	---	?	We advise that you check all areas where dirt can enter the system.

## HISTORICAL DIAGNOSIS

# OIL ANALYSIS REPORT

Sample Rating Trend



**DIRT**



Machine Id  
**JOHN DEERE 160G 1FF160GXKMF058261**  
 Component  
**Right Final Drive**  
 Fluid  
**JOHN DEERE GL-5 80W90 (--- GAL)**

**DIAGNOSIS**

- ▲ Recommendation**  
 We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.
- ▲ Wear**  
 Gear wear is indicated.
- ▲ Contamination**  
 Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.
- Fluid Condition**  
 The oil is no longer serviceable due to the presence of contaminants.

**SAMPLE INFORMATION**    method    limit/base    current    history1    history2

Sample Number	Client Info		<b>JR0211452</b>	---	---
Sample Date	Client Info		<b>07 May 2024</b>	---	---
Machine Age	hrs	Client Info	<b>2101</b>	---	---
Oil Age	hrs	Client Info	<b>0</b>	---	---
Oil Changed	Client Info		<b>N/A</b>	---	---
Sample Status			<b>SEVERE</b>	---	---

**CONTAMINATION**    method    limit/base    current    history1    history2

Water	WC Method	>0.075	<b>NEG</b>	---	---
-------	-----------	--------	------------	-----	-----

**WEAR METALS**    method    limit/base    current    history1    history2

PQ	ASTM D8184	>1250	<b>1075</b>	---	---
Iron	ppm	ASTM D5185m >750	<b>▲ 1382</b>	---	---
Chromium	ppm	ASTM D5185m >9	<b>▲ 20</b>	---	---
Nickel	ppm	ASTM D5185m >10	<b>4</b>	---	---
Titanium	ppm	ASTM D5185m	<b>12</b>	---	---
Silver	ppm	ASTM D5185m	<b>0</b>	---	---
Aluminum	ppm	ASTM D5185m >40	<b>● 94</b>	---	---
Lead	ppm	ASTM D5185m >15	<b>0</b>	---	---
Copper	ppm	ASTM D5185m >40	<b>1</b>	---	---
Tin	ppm	ASTM D5185m >10	<b>0</b>	---	---
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	---	---
Cadmium	ppm	ASTM D5185m	<b>0</b>	---	---

**ADDITIVES**    method    limit/base    current    history1    history2

Boron	ppm	ASTM D5185m	<b>74</b>	---	---
Barium	ppm	ASTM D5185m	<b>8</b>	---	---
Molybdenum	ppm	ASTM D5185m	<b>0</b>	---	---
Manganese	ppm	ASTM D5185m	<b>26</b>	---	---
Magnesium	ppm	ASTM D5185m	<b>4</b>	---	---
Calcium	ppm	ASTM D5185m	<b>17</b>	---	---
Phosphorus	ppm	ASTM D5185m	<b>535</b>	---	---
Zinc	ppm	ASTM D5185m	<b>43</b>	---	---
Sulfur	ppm	ASTM D5185m	<b>18456</b>	---	---

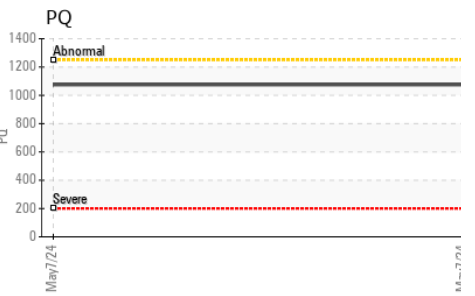
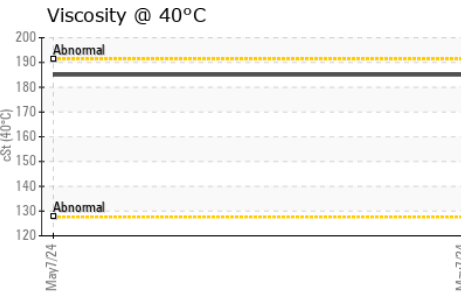
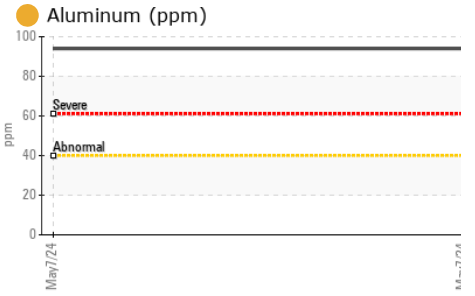
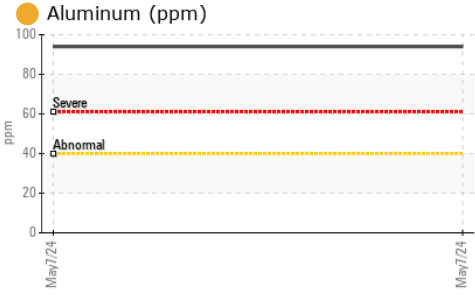
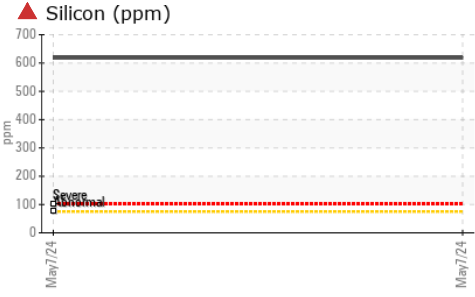
**CONTAMINANTS**    method    limit/base    current    history1    history2

Silicon	ppm	ASTM D5185m >75	<b>▲ 618</b>	---	---
Sodium	ppm	ASTM D5185m >51	<b>5</b>	---	---
Potassium	ppm	ASTM D5185m >20	<b>17</b>	---	---

**VISUAL**    method    limit/base    current    history1    history2

White Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---
Precipitate	scalar	*Visual	NONE	<b>NONE</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>	---	---
Free Water	scalar	*Visual		<b>NEG</b>	---	---

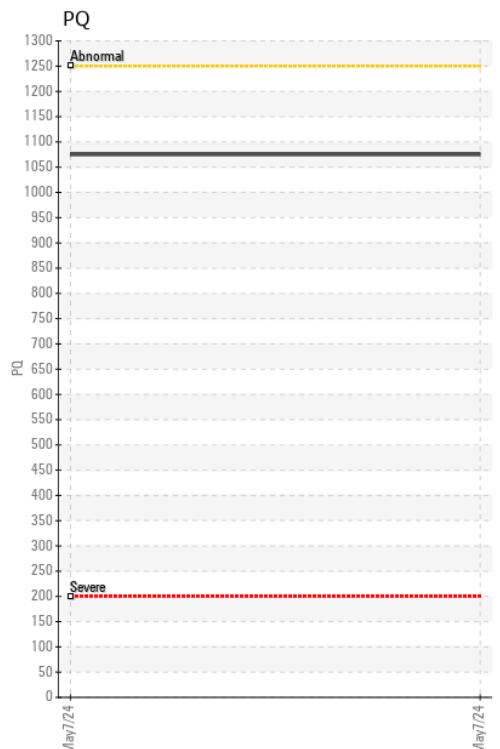
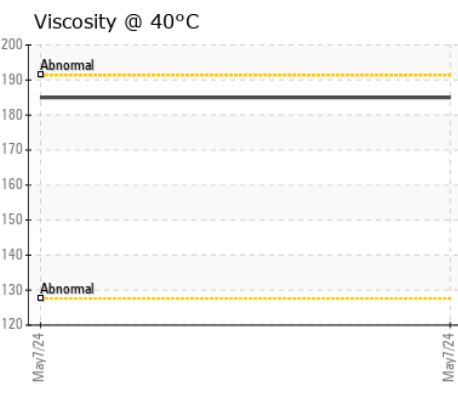
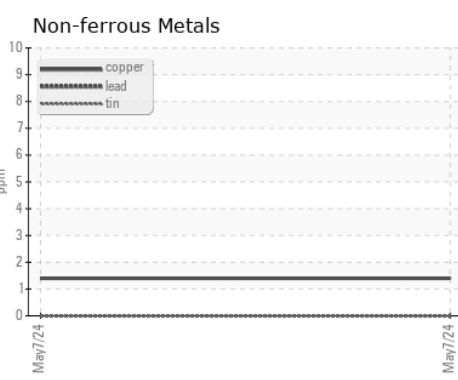
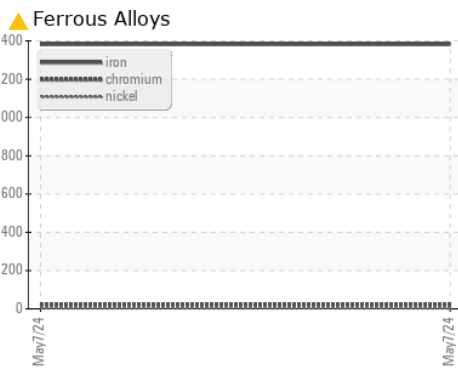
# OIL ANALYSIS REPORT



FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		185	---	---

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

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0211452      **Received** : 09 May 2024  
**Lab Number** : 06174171      **Tested** : 10 May 2024  
**Unique Number** : 11020224      **Diagnosed** : 12 May 2024 - Don Baldrige  
**Test Package** : CONST ( Additional Tests: PQ )

**JRE - ASHLAND**  
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 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)