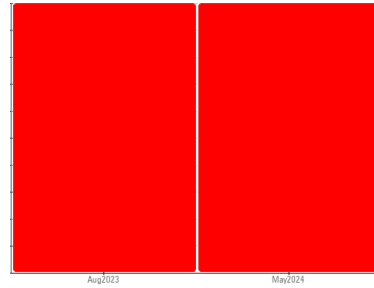


PROBLEM SUMMARY

Sample Rating Trend

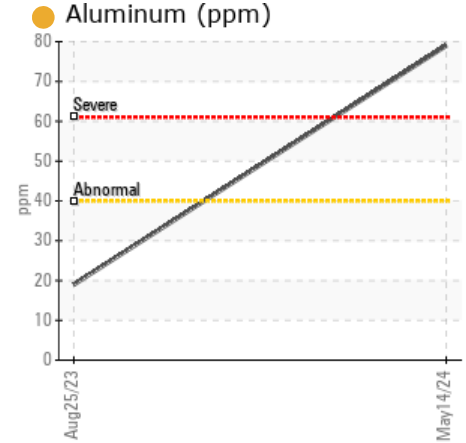
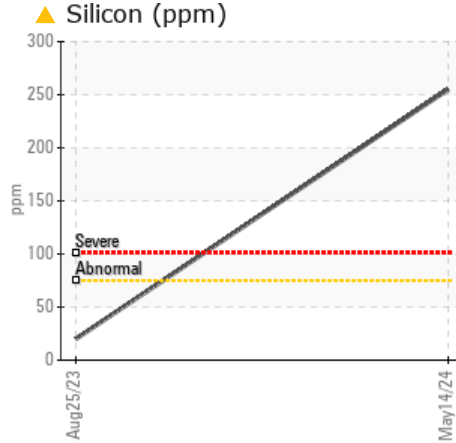
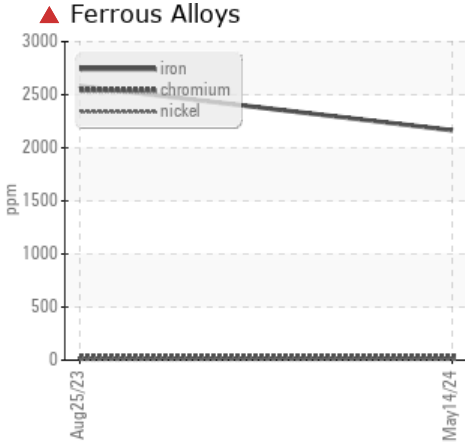


WEAR



Machine Id
JOHN DEERE 331G 1T0331GKJNF426129
 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. The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	SEVERE	---
Iron	ppm	ASTM D5185m	>750	▲ 2165	▲ 2581	---
Chromium	ppm	ASTM D5185m	>9	▲ 30	▲ 37	---
Silicon	ppm	ASTM D5185m	>75	▲ 255	20	---

Customer Id: JAMASH
 Sample No.: JR0212153
 Lab Number: 06181652
 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

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

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Inspect Wear Source	---	---	?	We advise that you inspect for the source(s) of wear.
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

WEAR



25 Aug 2023 Diag: Don Baldrige

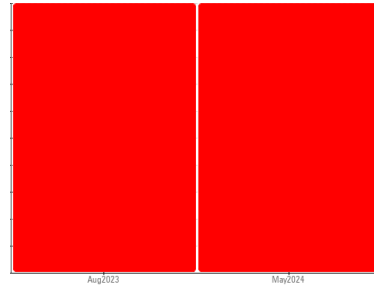
The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Gear wear is indicated. Component wear metal level(s) high for break in. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

view report



OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Machine Id
JOHN DEERE 331G 1T0331GKJNF426129
 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. The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

▲ Wear

Gear wear is indicated. Component wear metal level(s) high for break in.

▲ Contamination

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Fluid Condition

The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			JR0212153	JR0180930	---
Sample Date	Client Info			14 May 2024	25 Aug 2023	---
Machine Age	hrs	Client Info		1044	532	---
Oil Age	hrs	Client Info		0	0	---
Oil Changed	Client Info			Changed	Changed	---
Sample Status				SEVERE	SEVERE	---

CONTAMINATION		method	limit/base	current	history1	history2
Water	WC Method		>0.075	NEG	NEG	---

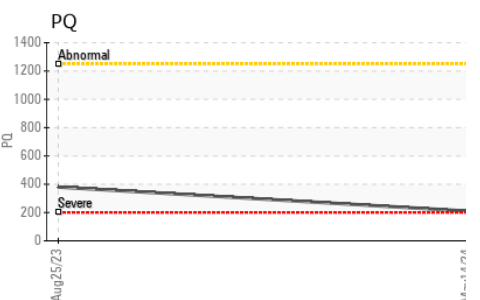
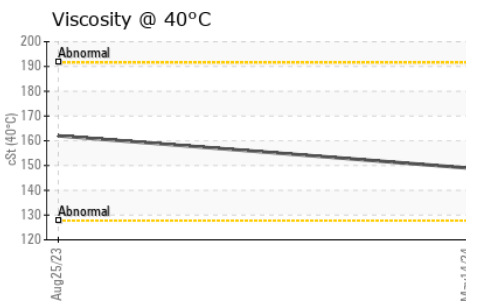
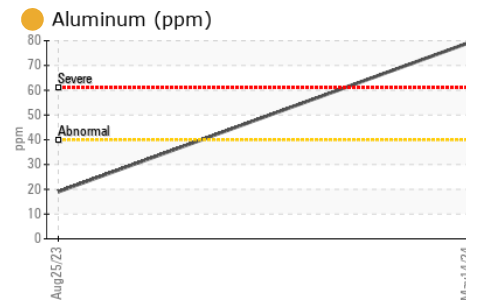
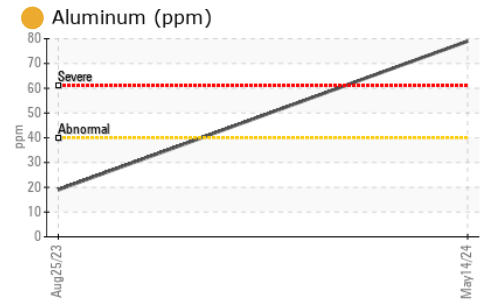
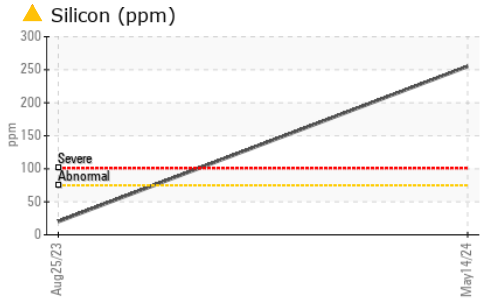
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>1250	210	380	---
Iron	ppm	ASTM D5185m	>750	▲ 2165	▲ 2581	---
Chromium	ppm	ASTM D5185m	>9	▲ 30	▲ 37	---
Nickel	ppm	ASTM D5185m	>10	6	6	---
Titanium	ppm	ASTM D5185m		6	<1	---
Silver	ppm	ASTM D5185m		<1	0	---
Aluminum	ppm	ASTM D5185m	>40	● 79	19	---
Lead	ppm	ASTM D5185m	>15	<1	0	---
Copper	ppm	ASTM D5185m	>40	2	1	---
Tin	ppm	ASTM D5185m	>10	0	0	---
Vanadium	ppm	ASTM D5185m		<1	<1	---
Cadmium	ppm	ASTM D5185m		<1	0	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		2	4	---
Barium	ppm	ASTM D5185m		17	81	---
Molybdenum	ppm	ASTM D5185m		3	3	---
Manganese	ppm	ASTM D5185m		19	23	---
Magnesium	ppm	ASTM D5185m		14	9	---
Calcium	ppm	ASTM D5185m		93	43	---
Phosphorus	ppm	ASTM D5185m		333	337	---
Zinc	ppm	ASTM D5185m		35	40	---
Sulfur	ppm	ASTM D5185m		19324	19328	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	▲ 255	20	---
Sodium	ppm	ASTM D5185m	>51	8	12	---
Potassium	ppm	ASTM D5185m	>20	32	56	---

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.075	NEG	NEG	---
Free Water	scalar	*Visual		NEG	NEG	---

OIL ANALYSIS REPORT

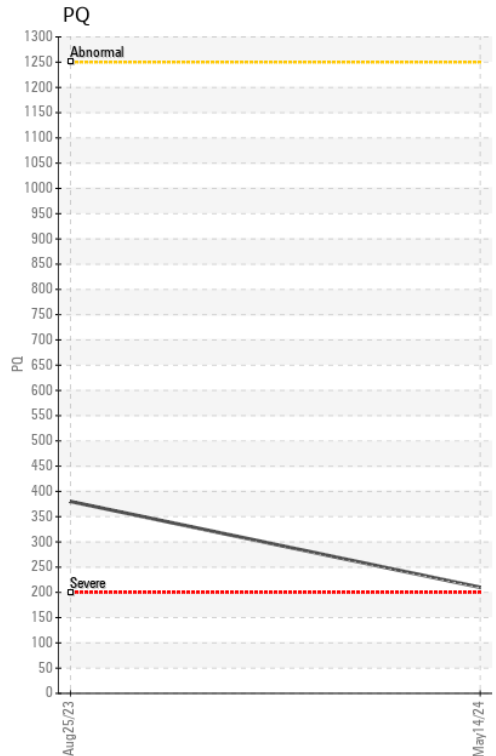
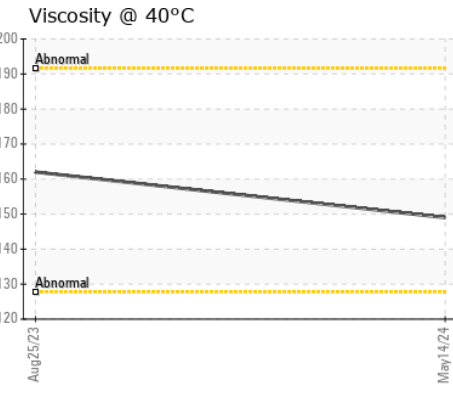
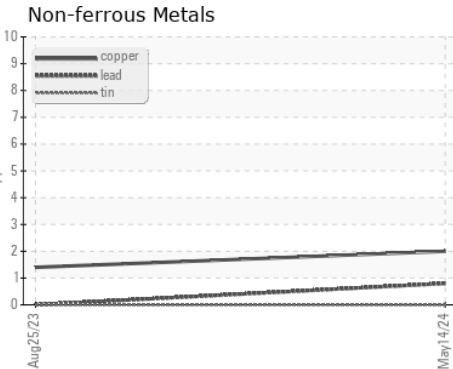
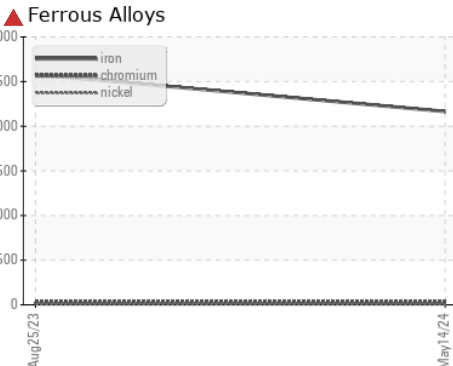


FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	149	162	---

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

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0212153 **Received** : 16 May 2024
Lab Number : **06181652** **Tested** : 17 May 2024
Unique Number : 11032978 **Diagnosed** : 20 May 2024 - Don Baldrige
Test Package : CONST (Additional Tests: PQ)

JRE - ASHLAND
 11047 LEADBETTER RD
 ASHLAND, VA
 US 23005

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Contact: DAVID ZIEG
 dzieg@jamesriverequipment.com

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

T: (804)798-6001

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

F: (804)798-0292