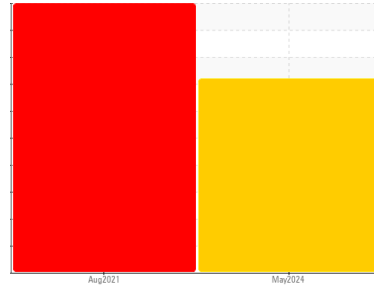


PROBLEM SUMMARY

Sample Rating Trend

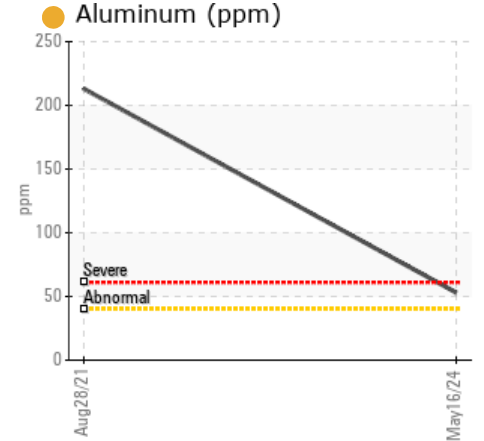
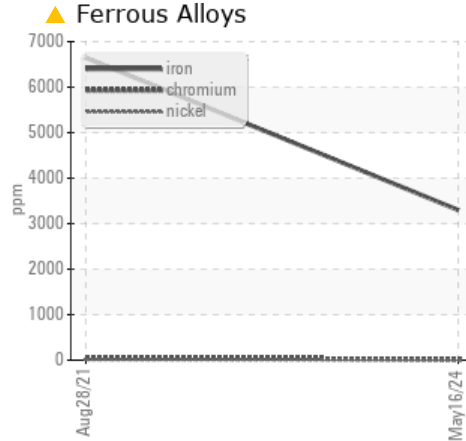
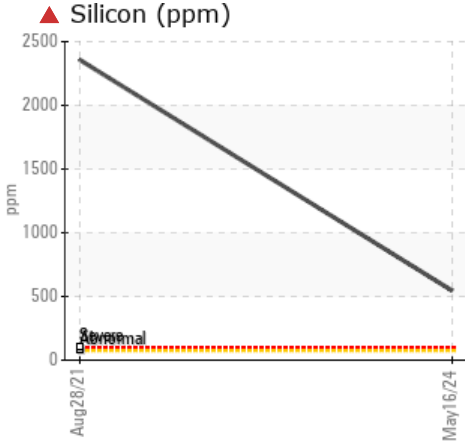


DIRT



Area
[W8908]
 Machine Id
JOHN DEERE 210G 1FF210GXKHF525414
 Component
Right Final Drive
 Fluid
JOHN DEERE GL-5 80W90 (2 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. (Customer Sample Comment: W8908)

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	SEVERE	---
Iron	ppm	ASTM D5185m	>750	▲ 3299	▲ 6646	---
Chromium	ppm	ASTM D5185m	>9	▲ 19	▲ 59	---
Silicon	ppm	ASTM D5185m	>75	▲ 545	▲ 2357	---

Customer Id: RWMFAY
 Sample No.: JR0196864
 Lab Number: 06183523
 Test Package: MOBCE



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
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

WEAR



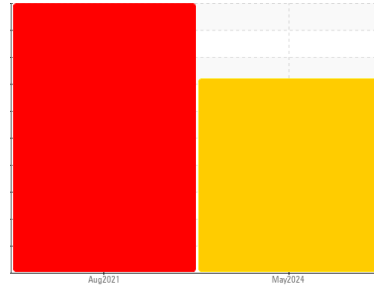
28 Aug 2021 Diag: Don Baldrige

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. Gear wear is indicated. Component wear metal level(s) high for break in. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. Confirm oil type. The oil is no longer serviceable due to the presence of contaminants.

view report



OIL ANALYSIS REPORT

Sample Rating Trend

DIRT


Area
[W8908]
 Machine Id
JOHN DEERE 210G 1FF210GXKHF525414
 Component
Right Final Drive
 Fluid
JOHN DEERE GL-5 80W90 (2 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. (Customer Sample Comment: W8908)

▲ 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		JR0196864	JR0054235	---
Sample Date	Client Info		16 May 2024	28 Aug 2021	---
Machine Age	hrs	Client Info	6525	2806	---
Oil Age	hrs	Client Info	3719	2806	---
Oil Changed	Client Info		Not Chngd	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	1124	2048	---
Iron	ppm	ASTM D5185m >750	▲ 3299	▲ 6646	---
Chromium	ppm	ASTM D5185m >9	▲ 19	▲ 59	---
Nickel	ppm	ASTM D5185m >10	5	11	---
Titanium	ppm	ASTM D5185m	8	31	---
Silver	ppm	ASTM D5185m	<1	0	---
Aluminum	ppm	ASTM D5185m >40	● 53	● 213	---
Lead	ppm	ASTM D5185m >15	<1	<1	---
Copper	ppm	ASTM D5185m >40	6	13	---
Tin	ppm	ASTM D5185m >10	0	<1	---
Antimony	ppm	ASTM D5185m >5	---	0	---
Vanadium	ppm	ASTM D5185m	<1	2	---
Cadmium	ppm	ASTM D5185m	0	0	---

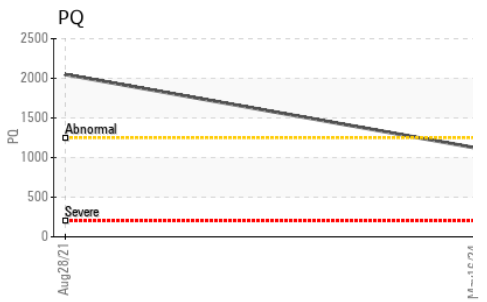
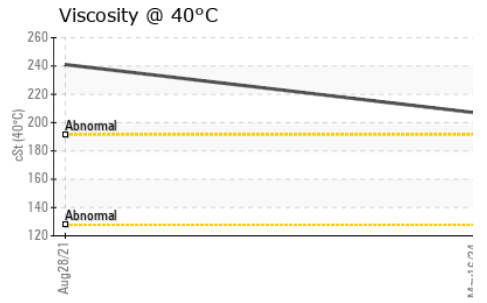
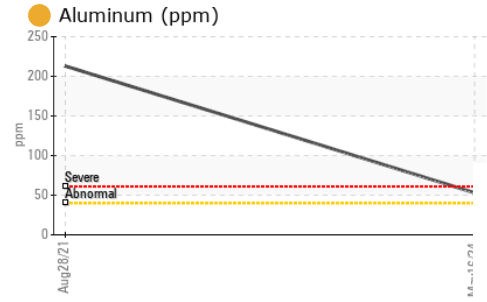
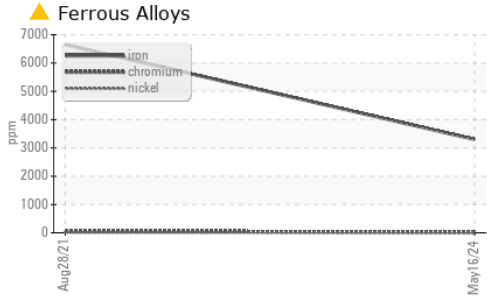
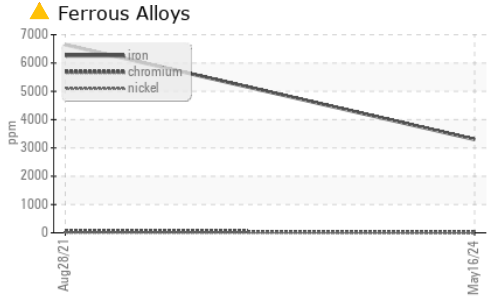
ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	138	73	---
Barium	ppm	ASTM D5185m	0	3	---
Molybdenum	ppm	ASTM D5185m	3	5	---
Manganese	ppm	ASTM D5185m	22	52	---
Magnesium	ppm	ASTM D5185m	3	8	---
Calcium	ppm	ASTM D5185m	8	21	---
Phosphorus	ppm	ASTM D5185m	1853	425	---
Zinc	ppm	ASTM D5185m	15	30	---
Sulfur	ppm	ASTM D5185m	27606	36075	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >75	▲ 545	▲ 2357	---
Sodium	ppm	ASTM D5185m >51	<1	11	---
Potassium	ppm	ASTM D5185m >20	8	33	---

OIL ANALYSIS REPORT



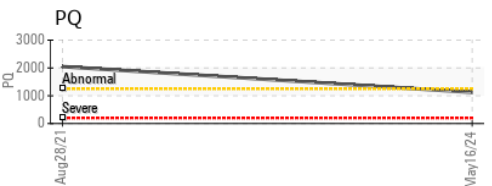
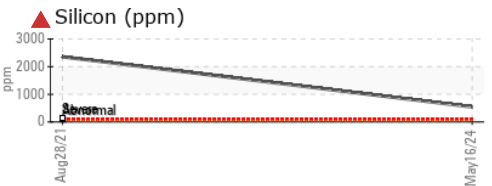
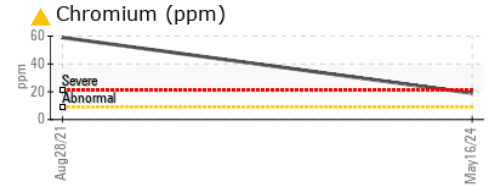
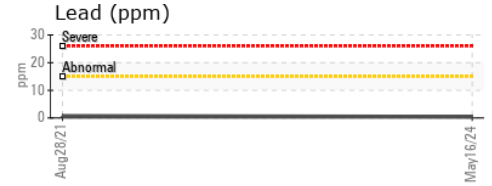
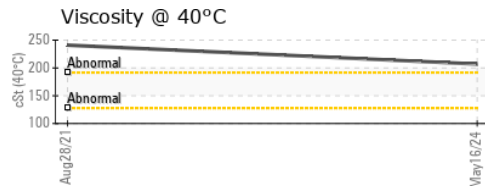
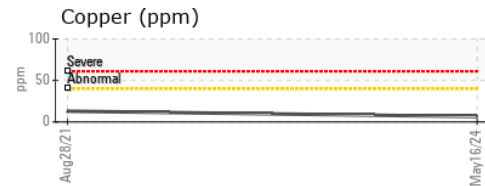
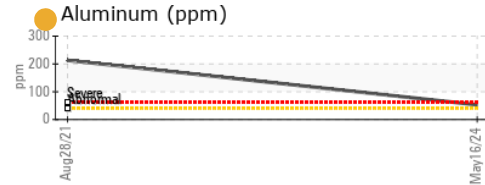
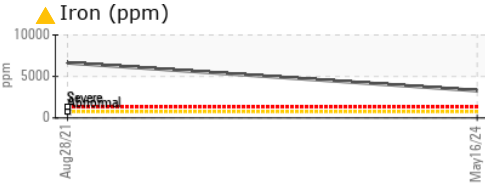
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	207	241	---

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



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0196864 **Received** : 17 May 2024
Lab Number : 06183523 **Tested** : 21 May 2024
Unique Number : 11034849 **Diagnosed** : 21 May 2024 - Don Baldrige
Test Package : MOBCE (Additional Tests: PQ)

JRE - HOPE MILLS/FAYETTEVILLE
 5039 HWY 301 SOUTH
 HOPE MILLS, NC
 US 28348
 Contact: FAYETTEVILLE SHOP
 stephen.mullis@jamesriverequipment.com; canastasio@wearcheck.com

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)