

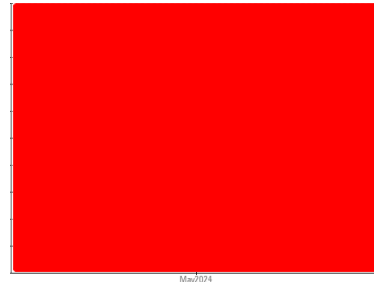
PROBLEM SUMMARY

Sample Rating Trend

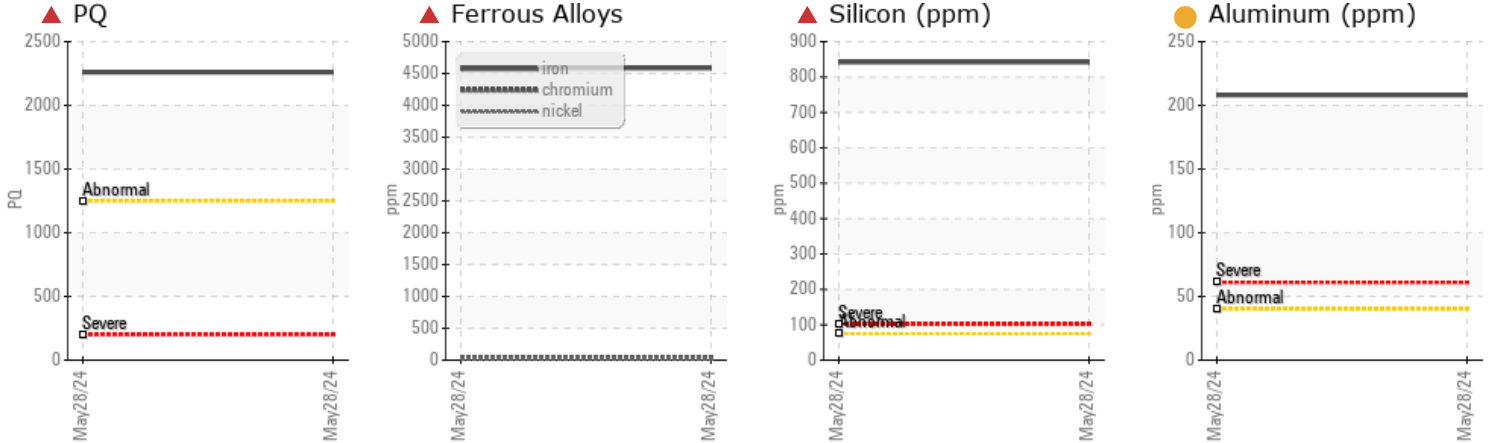
WEAR



Area
[W52052 HENDERSON]
 Machine Id
JOHN DEERE 331G 1T0331GMVLF371179
 Component
Left 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	---	---
PQ	▲ 2259	---	---
Iron	▲ 4585	---	---
Chromium	▲ 32	---	---
Nickel	▲ 20	---	---
Silicon	▲ 842	---	---

Customer Id: JAMASH
 Sample No.: JR0211647
 Lab Number: 06196969
 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Sean Felton +1 919-379-4092
sfelton@wearcheckusa.com

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

OIL ANALYSIS REPORT

Sample Rating Trend

WEAR

Area

[W52052 HENDERSON]

Machine Id

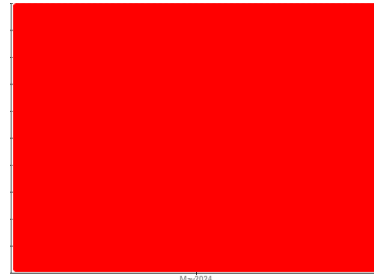
JOHN DEERE 331G 1T0331GMVLF371179

Component

Left 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.

▲ 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			JR0211647	---	---
Sample Date	Client Info			28 May 2024	---	---
Machine Age	hrs	Client Info		1431	---	---
Oil Age	hrs	Client Info		0	---	---
Oil Changed	Client Info			Changed	---	---
Sample Status				SEVERE	---	---

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

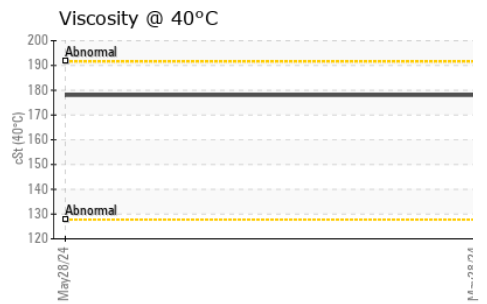
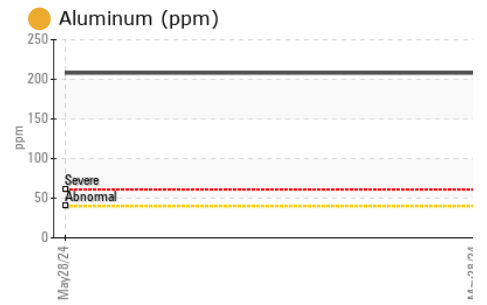
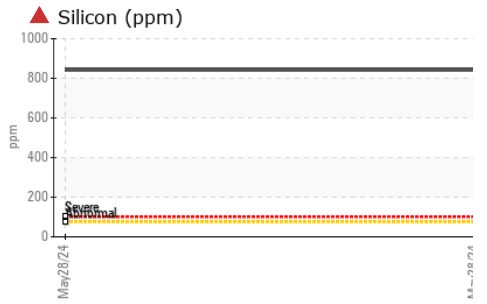
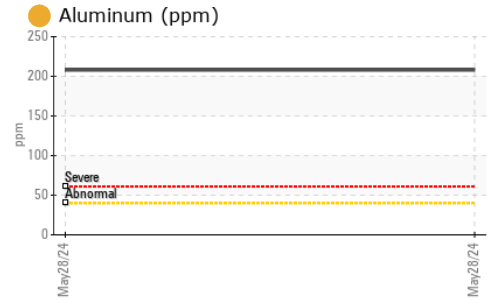
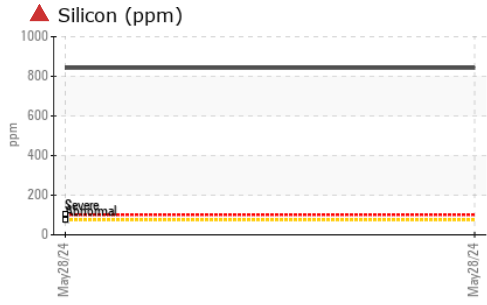
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>1250	▲ 2259	---	---
Iron	ppm	ASTM D5185m	>750	▲ 4585	---	---
Chromium	ppm	ASTM D5185m	>9	▲ 32	---	---
Nickel	ppm	ASTM D5185m	>10	▲ 20	---	---
Titanium	ppm	ASTM D5185m		22	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m	>40	● 208	---	---
Lead	ppm	ASTM D5185m	>15	<1	---	---
Copper	ppm	ASTM D5185m	>40	5	---	---
Tin	ppm	ASTM D5185m	>10	<1	---	---
Vanadium	ppm	ASTM D5185m		1	---	---
Cadmium	ppm	ASTM D5185m		<1	---	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		39	---	---
Barium	ppm	ASTM D5185m		4	---	---
Molybdenum	ppm	ASTM D5185m		10	---	---
Manganese	ppm	ASTM D5185m		33	---	---
Magnesium	ppm	ASTM D5185m		20	---	---
Calcium	ppm	ASTM D5185m		60	---	---
Phosphorus	ppm	ASTM D5185m		379	---	---
Zinc	ppm	ASTM D5185m		28	---	---
Sulfur	ppm	ASTM D5185m		22801	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	▲ 842	---	---
Sodium	ppm	ASTM D5185m	>51	7	---	---
Potassium	ppm	ASTM D5185m	>20	37	---	---

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

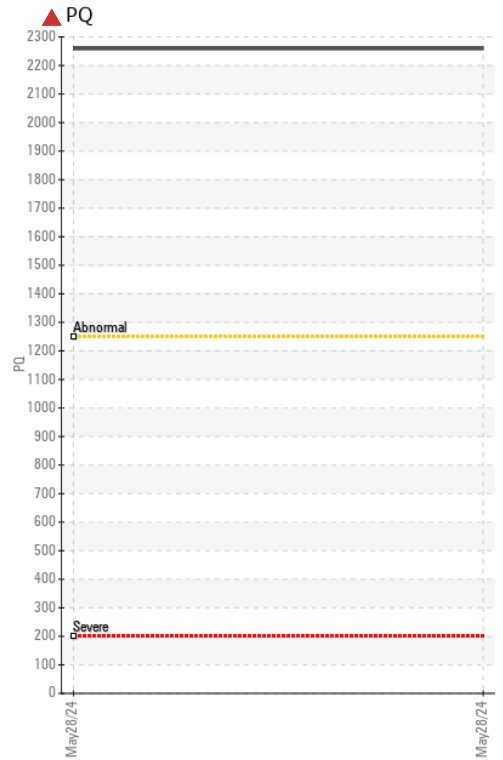
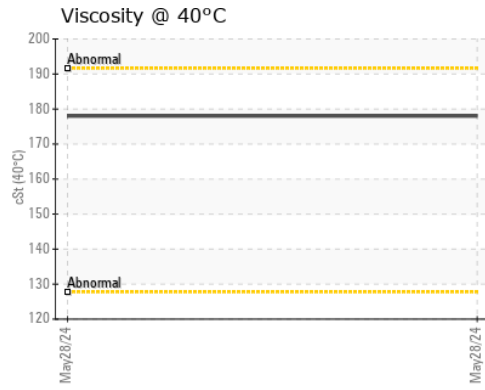
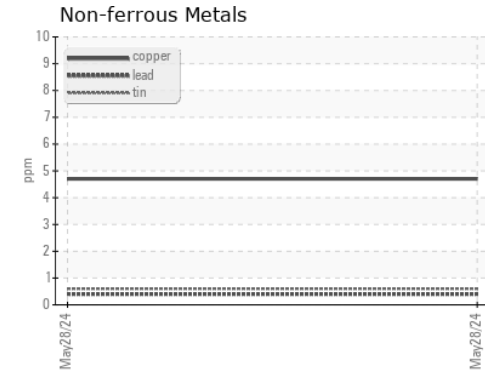
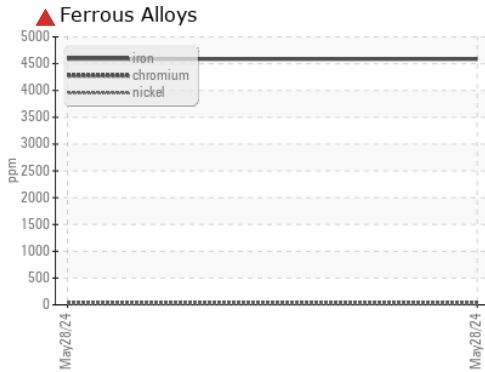
OIL ANALYSIS REPORT



FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		178	---	---

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

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0211647
Lab Number : 06196969
Unique Number : 11059092
Test Package : CONST (Additional Tests: PQ)

Received : 31 May 2024
Tested : 03 Jun 2024
Diagnosed : 04 Jun 2024 - Sean Felton

JRE - ASHLAND
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 US 23005
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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)