



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	ABNORMAL



Area
[A33767]
Machine Id
JOHN DEERE 210G 1FF210GXJKF527964
Component
Front Right Final Drive
Fluid
JOHN DEERE GL-5 80W90 (8 GAL)

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: A33767)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WE0005525	---	---
Sample Date		Client Info		12 Oct 2023	---	---
Machine Age	hrs	Client Info		1476	---	---
Oil Age	hrs	Client Info		1476	---	---
Filter Age	hrs	Client Info		1476	---	---
Oil Changed		Client Info		Not Changd	---	---
Filter Changed		Client Info		N/A	---	---
Sample Status				SEVERE	---	---

WEAR

Gear wear is indicated.

PQ		ASTM D8184	>1250	495	---	---
Iron	ppm	ASTM D5185m	>750	▲ 3126	---	---
Chromium	ppm	ASTM D5185m	>9	▲ 26	---	---
Nickel	ppm	ASTM D5185m	>10	4	---	---
Titanium	ppm	ASTM D5185m		10	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m	>40	▲ 68	---	---
Lead	ppm	ASTM D5185m	>15	0	---	---
Copper	ppm	ASTM D5185m	>40	5	---	---
Tin	ppm	ASTM D5185m	>10	<1	---	---
Vanadium	ppm	ASTM D5185m		<1	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

CONTAMINATION

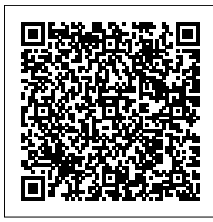
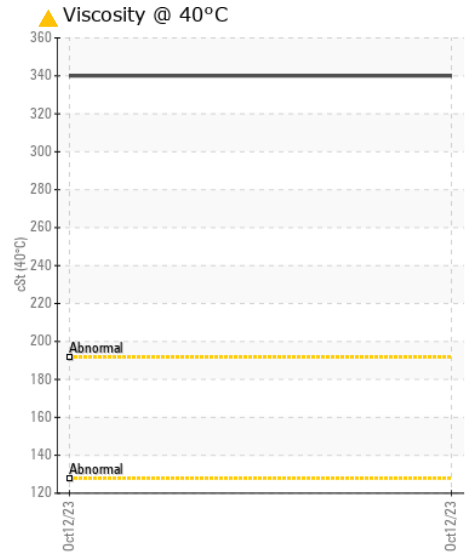
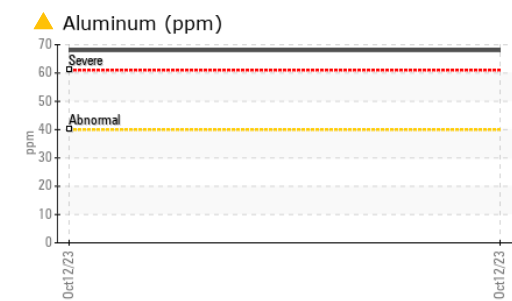
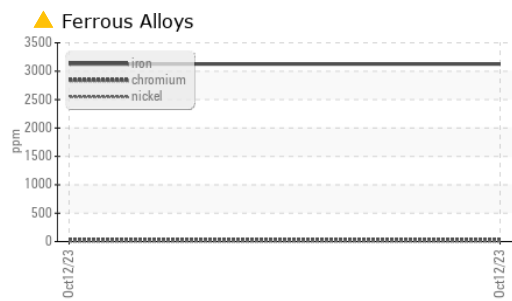
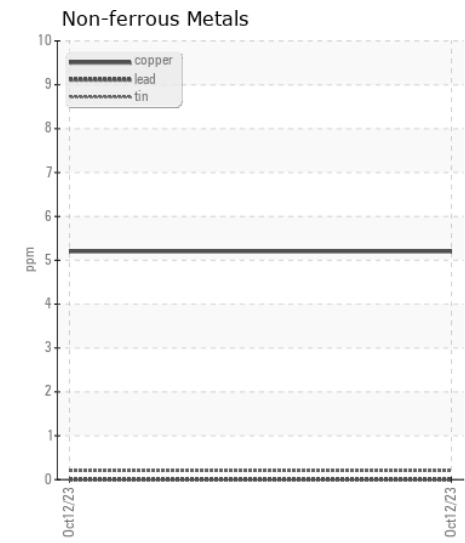
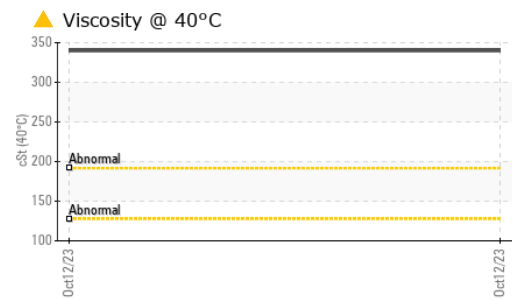
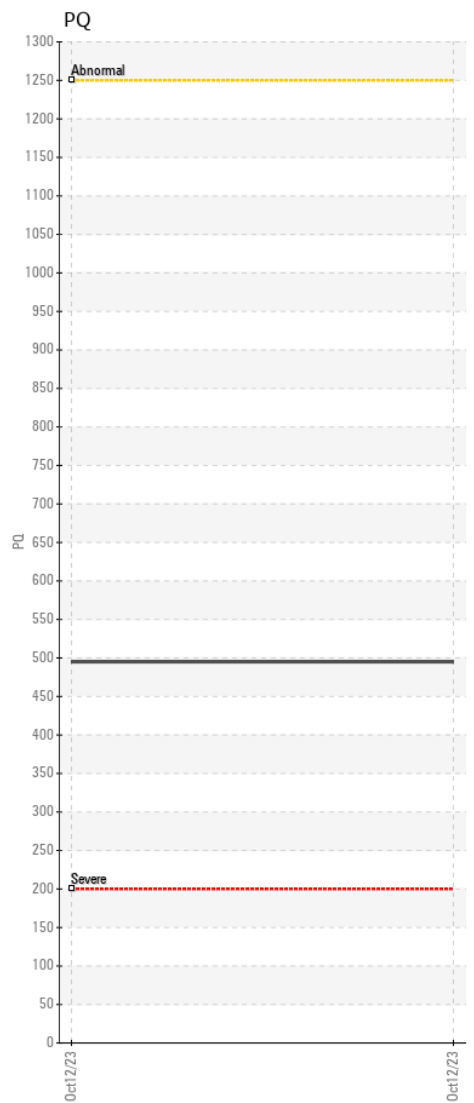
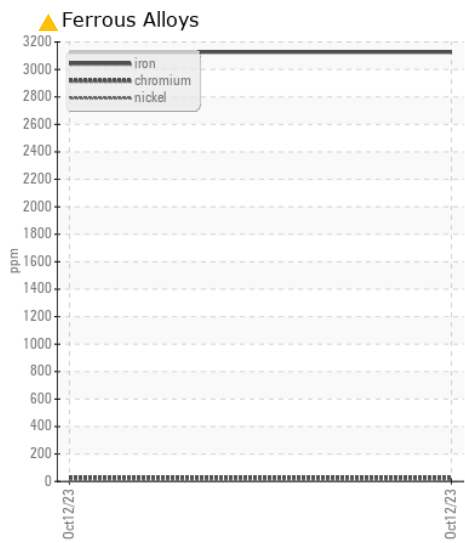
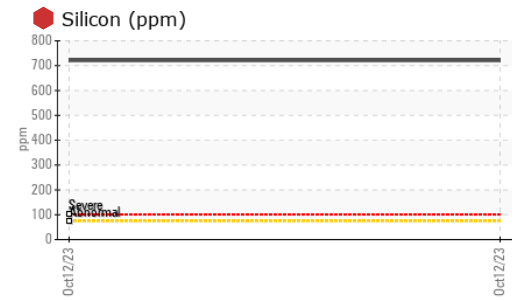
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>75	◆ 721	---	---
Potassium	ppm	ASTM D5185m	>20	15	---	---
Water		WC Method	>0.075	NEG	---	---
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	---	---

FLUID CONDITION

The oil viscosity is higher than normal. The oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185m	>51	1	---	---
Boron	ppm	ASTM D5185m		113	---	---
Barium	ppm	ASTM D5185m		0	---	---
Molybdenum	ppm	ASTM D5185m		<1	---	---
Manganese	ppm	ASTM D5185m		25	---	---
Magnesium	ppm	ASTM D5185m		<1	---	---
Calcium	ppm	ASTM D5185m		20	---	---
Phosphorus	ppm	ASTM D5185m		853	---	---
Zinc	ppm	ASTM D5185m		8	---	---
Sulfur	ppm	ASTM D5185m		25954	---	---
Visc @ 40°C	cSt	ASTM D445		▲ 340	---	---



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WE0005525 **Received** : 16 Oct 2023
Lab Number : 05979934 **Diagnosed** : 18 Oct 2023
Unique Number : 10697229 **Diagnostician** : Jonathan Hester
Test Package : CONST (Additional Tests: PQ)

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 25135 ONE AVIATION WAY SW
 MADISON, AL
 US 35756
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 T:
 F:

Certificate L2367
 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)