



Machine Id
JOHN DEERE 210G 1FF210GXPLF528983
Component
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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0221015	JR0201034	JR0173751
Sample Date		Client Info		08 Jul 2024	29 Mar 2024	14 Jun 2023
Machine Age	hrs	Client Info		2496	2167	1516
Oil Age	hrs	Client Info		329	651	1516
Filter Age	hrs	Client Info		0	0	1516
Oil Changed		Client Info		Not Changd	Changed	Changed
Filter Changed		Client Info		N/A	N/A	Changed
Sample Status				SEVERE	SEVERE	ABNORMAL

WEAR

The iron level has decreased, but is still abnormal. Gear wear is indicated.

PQ		ASTM D8184	>1250	502	890	601
Iron	ppm	ASTM D5185m	>750	▲ 883	▲ 1336	2051
Chromium	ppm	ASTM D5185m	>9	7	▲ 12	22
Nickel	ppm	ASTM D5185m	>10	1	5	5
Titanium	ppm	ASTM D5185m		4	7	8
Silver	ppm	ASTM D5185m		0	<1	0
Aluminum	ppm	ASTM D5185m	>40	● 32	● 46	● 63
Lead	ppm	ASTM D5185m	>15	0	1	0
Copper	ppm	ASTM D5185m	>40	2	4	4
Tin	ppm	ASTM D5185m	>10	0	0	<1
Vanadium	ppm	ASTM D5185m		0	<1	<1
White Metal	scalar	*Visual	NONE	MODER	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

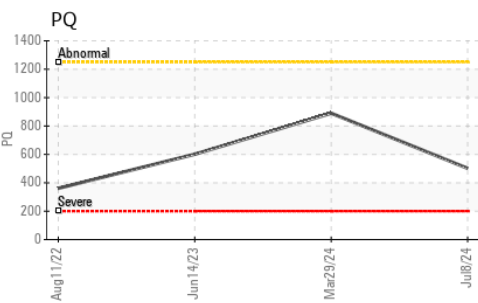
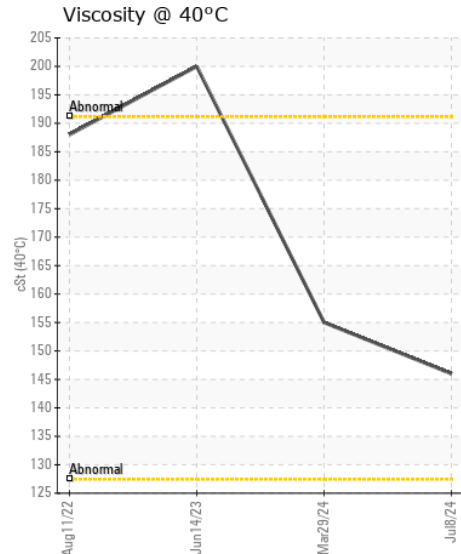
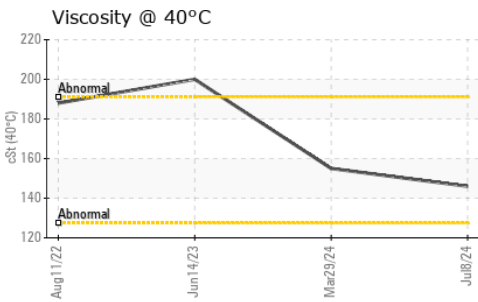
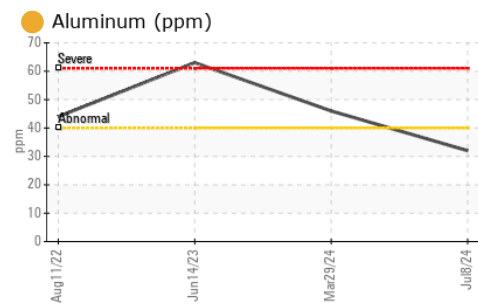
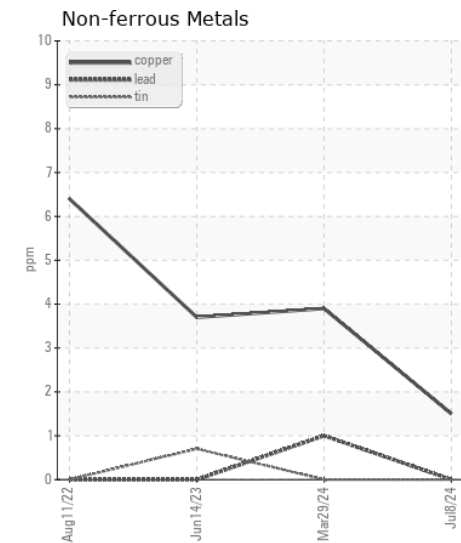
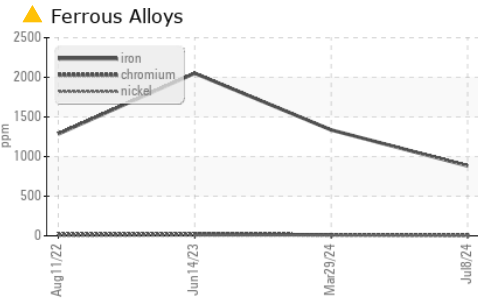
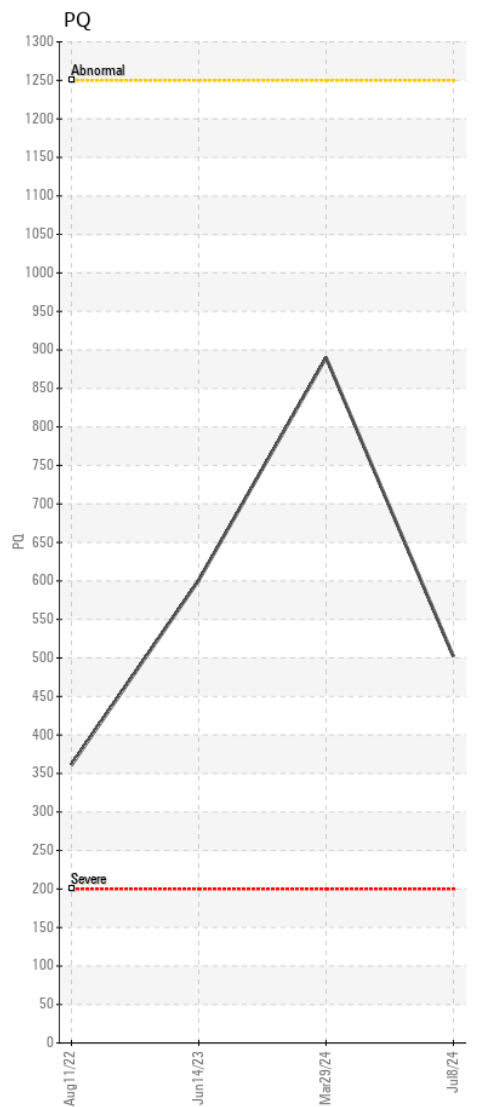
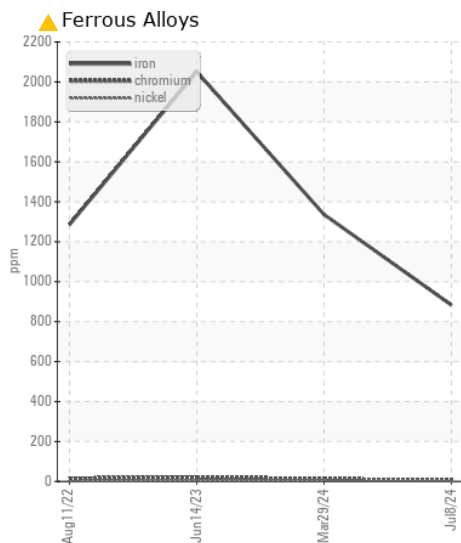
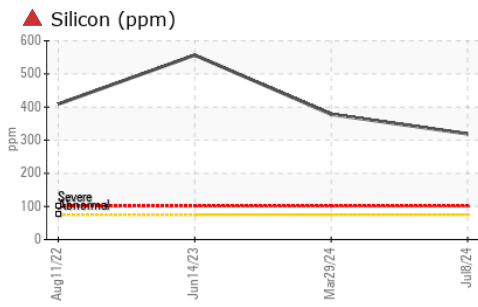
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>75	▲ 319	▲ 378	▲ 557
Potassium	ppm	ASTM D5185m	>20	7	13	14
Water		WC Method	>0.075	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.075	NEG	▲ 0.2%	NEG

FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185m	>51	3	1	2
Boron	ppm	ASTM D5185m		14	16	66
Barium	ppm	ASTM D5185m		<1	0	6
Molybdenum	ppm	ASTM D5185m		0	2	2
Manganese	ppm	ASTM D5185m		8	14	22
Magnesium	ppm	ASTM D5185m		4	7	6
Calcium	ppm	ASTM D5185m		63	51	32
Phosphorus	ppm	ASTM D5185m		1989	1908	519
Zinc	ppm	ASTM D5185m		17	49	23
Sulfur	ppm	ASTM D5185m		27904	28480	24894
Visc @ 40°C	cSt	ASTM D445		146	155	200



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : JR0221015

Lab Number : 06231689

Unique Number : 11115182

Test Package : CONST (Additional Tests: PQ)

Received : 09 Jul 2024

Tested : 10 Jul 2024

Diagnosed : 11 Jul 2024 - Don Baldridge

JRE - NEW BERN
3816 MARTIN LUTHER KING BLVD
NEW BERN, NC
US 28562

Contact: NEW BERN SHOP

nick.etherdridge@jamesriverequipment.com; canastasio@wearcheckusa.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)

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F: