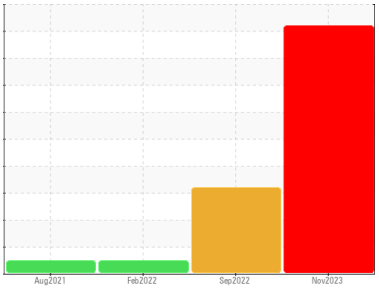
PROBLEM SUMMARY

Sample Rating Trend

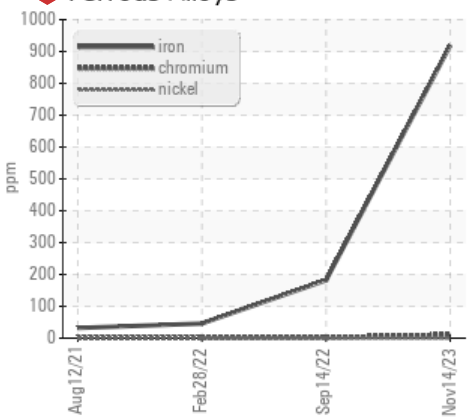


WEAR

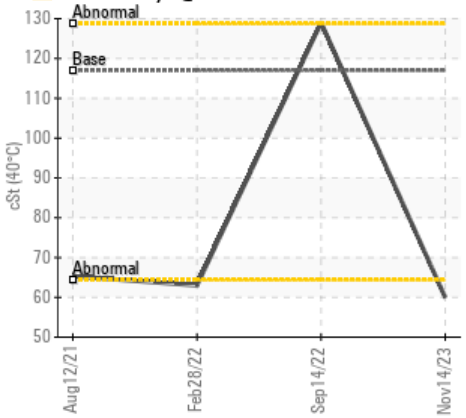
Area
[W8149]
Machine Id
JOHN DEERE 210G 1FF210GXPLF528921
Component
Pump Drive
Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- GAL)

COMPONENT CONDITION SUMMARY

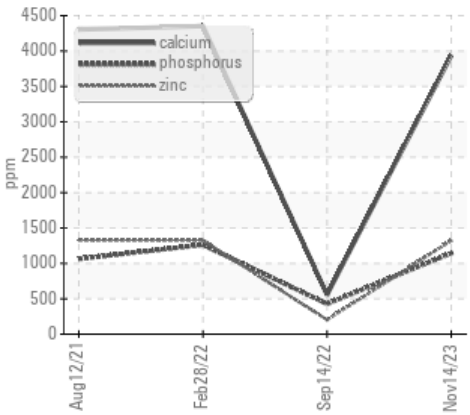
Ferrous Alloys



Viscosity @ 40°C



Additives



RECOMMENDATION

We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. (Customer Sample Comment: W8149)

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	ATTENTION	NORMAL
Iron	ppm	ASTM D5185m	>151	**919**	182	46
Chromium	ppm	ASTM D5185m	>11	**11**	2	1
Boron	ppm	ASTM D5185m		**57**	11	65
Magnesium	ppm	ASTM D5185m		**19**	13	19
Calcium	ppm	ASTM D5185m		**3935**	557	4353
Phosphorus	ppm	ASTM D5185m		**1143**	428	1262
Sulfur	ppm	ASTM D5185m		**7400**	12407	7364
Visc @ 40°C	cSt	ASTM D445	117	**60.0**	129	63.0

Customer Id: RWMFAY
Sample No.: JR0183216
Lab Number: 06008597
Test Package: MOBCE

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.
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.

HISTORICAL DIAGNOSIS

14 Sep 2022 Diag: Jonathan Hester

VISCOSITY

No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The oil viscosity is higher than normal. Additive levels indicate the addition of a different brand, or type of oil. Confirm oil type.

view report

28 Feb 2022 Diag: Don Baldridge

NORMAL

Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

view report

12 Aug 2021 Diag: Jonathan Hester

NORMAL

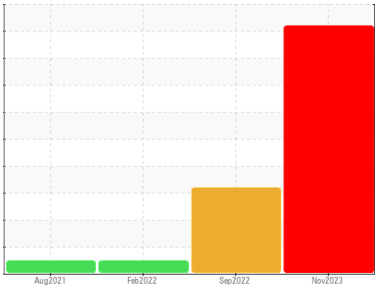
Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

view report

OIL ANALYSIS REPORT

Area
[W8149]
Machine Id
JOHN DEERE 210G 1FF210GXPLF528921
Component
Pump Drive
Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- GAL)

Sample Rating Trend



WEAR

DIAGNOSIS

Recommendation
We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. (Customer Sample Comment: W8149)

Wear
Gear wear is indicated.

Contamination
There is no indication of any contamination in the oil.

Fluid Condition
The oil viscosity is lower than normal. Additive levels indicate the addition of a different brand, or type of oil. Confirm oil type. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**JR0183216**	JR0098024	JR0098600
Sample Date		Client Info		**14 Nov 2023**	14 Sep 2022	28 Feb 2022
Machine Age	hrs	Client Info		**2748**	1524	967
Oil Age	hrs	Client Info		**656**	557	967
Oil Changed		Client Info		**Not Changd**	Not Changd	Changed
Sample Status				**SEVERE**	ATTENTION	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.1	**NEG**	NEG	NEG

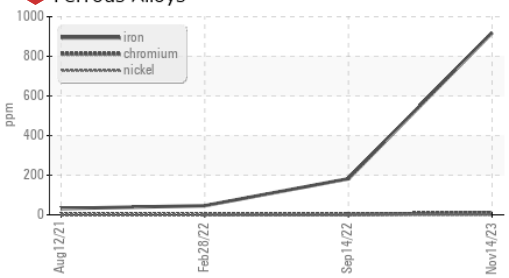
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		**243**	10	21
Iron	ppm	ASTM D5185m	>151	**919**	182	46
Chromium	ppm	ASTM D5185m	>11	**11**	2	1
Nickel	ppm	ASTM D5185m	>10	**0**	0	0
Titanium	ppm	ASTM D5185m		**<1**	<1	<1
Silver	ppm	ASTM D5185m		**0**	<1	0
Aluminum	ppm	ASTM D5185m	>21	**2**	3	<1
Lead	ppm	ASTM D5185m	>51	**0**	0	0
Copper	ppm	ASTM D5185m	>51	**2**	<1	1
Tin	ppm	ASTM D5185m	>4	**<1**	<1	0
Antimony	ppm	ASTM D5185m	>5	**---**	---	<1
Vanadium	ppm	ASTM D5185m		**<1**	0	0
Cadmium	ppm	ASTM D5185m		**0**	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**57**	11	65
Barium	ppm	ASTM D5185m		**2**	0	0
Molybdenum	ppm	ASTM D5185m		**103**	18	108
Manganese	ppm	ASTM D5185m		**11**	2	3
Magnesium	ppm	ASTM D5185m		**19**	13	19
Calcium	ppm	ASTM D5185m		**3935**	557	4353
Phosphorus	ppm	ASTM D5185m		**1143**	428	1262
Zinc	ppm	ASTM D5185m		**1322**	202	1326
Sulfur	ppm	ASTM D5185m		**7400**	12407	7364

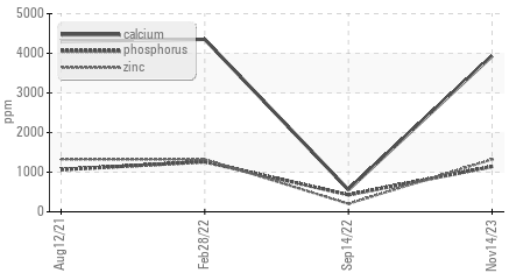
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>31	**17**	9	13
Sodium	ppm	ASTM D5185m	>51	**4**	<1	2
Potassium	ppm	ASTM D5185m	>20	**0**	0	0

OIL ANALYSIS REPORT

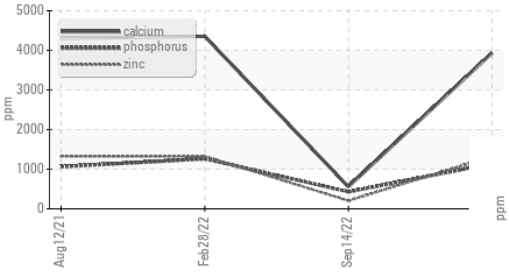
Ferrous Alloys



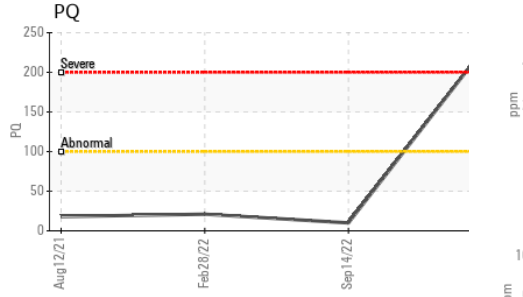
Additives



Additives



PQ



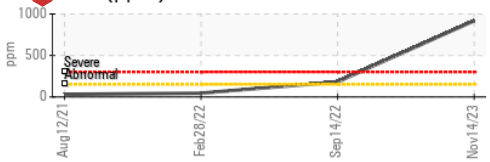
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Appearance	scalar	*Visual	NORML	**NORML**	NORML	NORML
Odor	scalar	*Visual	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	**NEG**	NEG	NEG
Free Water	scalar	*Visual		**NEG**	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	117	▲ **60.0**	▲ 129	63.0

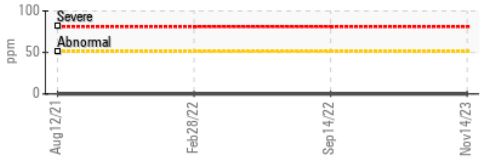
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			*no image*	*no image*	*no image*
Bottom			*no image*	*no image*	*no image*

GRAPHS

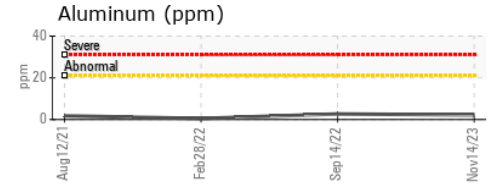
Iron (ppm)



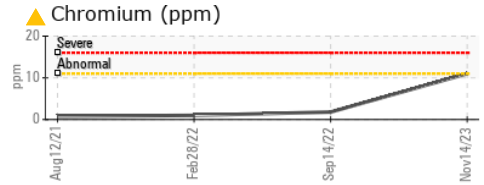
Lead (ppm)



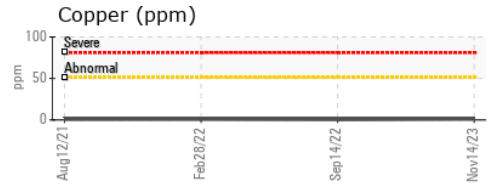
Aluminum (ppm)



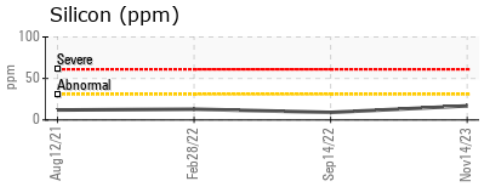
Chromium (ppm)



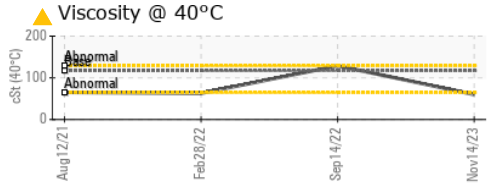
Copper (ppm)



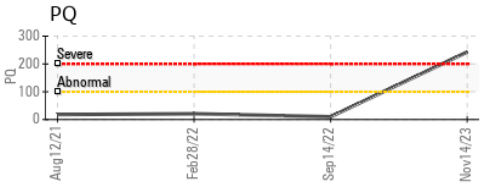
Silicon (ppm)



Viscosity @ 40°C



PQ



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0183216 **Received** : 15 Nov 2023
Lab Number : 06008597 **Diagnosed** : 17 Nov 2023
Unique Number : 10742359 **Diagnostician** : Sean Felton
Test Package : MOBCE (Additional Tests: PQ)

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)

JRE - HOPE MILLS/FAYETTEVILLE
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Contact: FAYETTEVILLE SHOP
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T:
F:

Report Id: RWMFAY [WUSCAR] 06008597 (Generated: 11/27/2023 08:19:54) Rev: 1

Submitted By: JUSTIN JACKSON