



OIL ANALYSIS REPORT

WEAR CONTAMINATION FLUID CONDITION

ABNORMAL NORMAL NORMAL



Store 2 - Beaver [RO#152712]

## **JOHN DEERE 210G 1FF210GXCHF525223**

Diesel Engine

JOHN DEERE ENGINE OIL PLU	JS 50 II 15W	40 (6	GAL)				
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number		Client Info		LEC0051314	LEC0023206	LEC0014097
	Sample Date		Client Info		09 Jul 2024	02 Nov 2021	19 Aug 2021
	Machine Age	hrs	Client Info		4051	2980	2719
	Oil Age	hrs	Client Info		1071	621	360
	Filter Age	hrs	Client Info		1071	621	360
	Oil Changed		Client Info		Changed	Changed	Not Changd
	Filter Changed		Client Info		Changed	Changed	Not Changd
	Sample Status				ABNORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>51	51	42	29
The copper level is abnormal. All other component wear rates are normal for time on oil.	Chromium	ppm	ASTM D5185m	>11	<1	2	1
	Nickel	ppm	ASTM D5185m	>5	0	<1	<1
	Titanium	ppm	ASTM D5185m		0	<1	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>31	3	5	3
	Lead	ppm	ASTM D5185m		0	0	0
	Copper	ppm	ASTM D5185m		<u></u> 31	3	2
	Tin	ppm	ASTM D5185m	>4	0	<1	0
	Vanadium	ppm	ASTM D5185m		0	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon Potassium	ppm	ASTM D5185m ASTM D5185m		8 0	10 <1	8
There is no indication of any contamination in the oil.	Fuel	ppm	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	70.21	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	~3	0.5	0.7	0.4
	Nitration	Abs/cm	*ASTM D7624	>20	10.0	10.2	8.3
	Sulfation	Abs/.1mm			20.8	24.4	21
	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	>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	5	3	2
The DN was the distance that the conference of the last the last the conference of the last t	Boron	ppm	ASTM D5185m		4	184	271
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		65	279	265
	Manganese	ppm	ASTM D5185m		<1	1	<1
	Magnesium	ppm	ASTM D5185m		848	888	813
	Calcium	ppm	ASTM D5185m		1296	1577	1399
	Phosphorus	ppm	ASTM D5185m		989	934	863
	Zinc	ppm	ASTM D5185m		1200	1076	979
	Sulfur	ppm	ASTM D5185m		2985	2702	2385
	Oxidation	Abs/.1mm			17.1	18.9	15.6
	Base Number (BN)	mg KOH/g	ASTM D2896	13.6	7.2	9.2	9.2
	Vian (2) 10000	- 121	A COTAL DATE	4 1 1	400	440	440

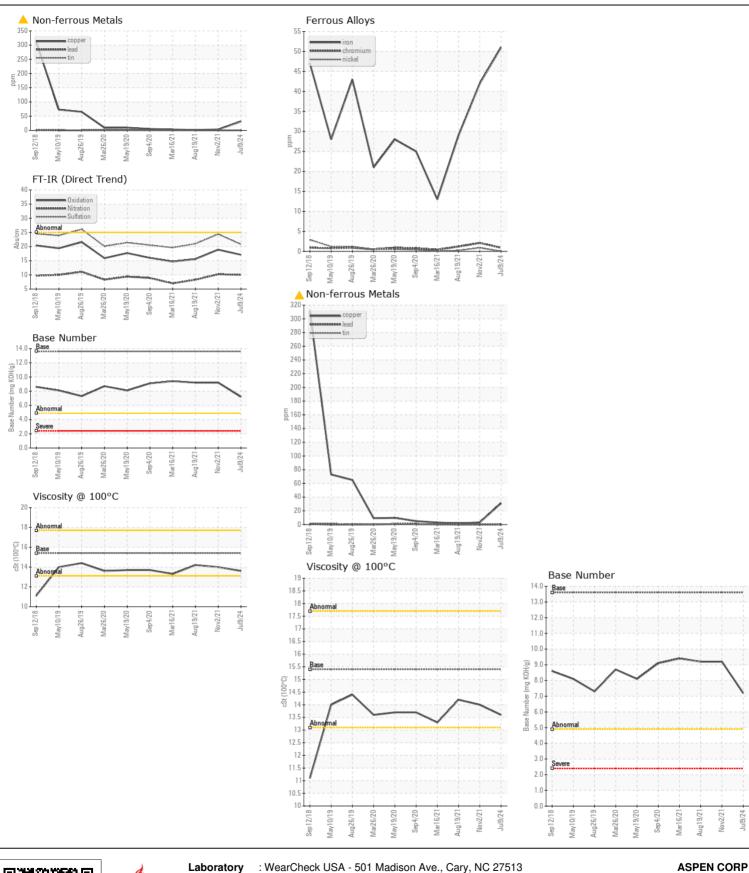
Visc @ 100°C cSt

14.0

13.6

ASTM D445 15.4

14.2







Certificate L2367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06234280

: LEC0051314

Received **Tested** Unique Number : 11123114

: 11 Jul 2024 : 12 Jul 2024 Diagnosed Test Package : CONST ( Additional Tests: TBN )

: 14 Jul 2024 - Don Baldridge

DANIELS, WV US 25832 Contact: JASON ST CLAIR jstclair@aspen-golf.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. T: (304)688-8753

F:

2400 RITTER DR