



OIL ANALYSIS REPORT

WEAR CONTAMINATION FLUID CONDITION

ATTENTION

ABNORMAL

NORMAL



Store 8 - Pikeville

## **JOHN DEERE 210G 1FF210GXCNF530286**

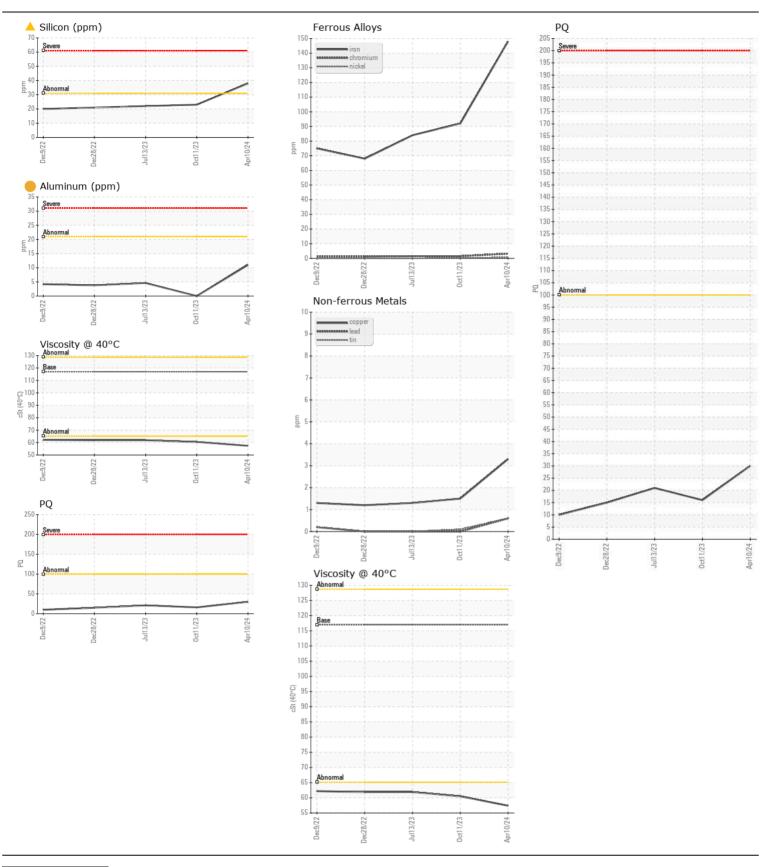
**Pump Drive** 

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (1 QTS)

JOHN DEERE ENGINE OIL PLU	15 50 II 15 W	40 (1	Q13)				
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. Resample at the next service interval to monitor.	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		LEC0049628	LEC0042790	LEC0041076
	Sample Date		Client Info		10 Apr 2024	11 Oct 2023	13 Jul 2023
	Machine Age	hrs	Client Info		1919	1570	1083
	Oil Age	hrs	Client Info		1919	1570	1083
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Not Changd	Not Changd
	Filter Changed		Client Info		None	N/A	N/A
	Sample Status				ABNORMAL	NORMAL	NORMAL
WEAR	PQ		ASTM D8184		30	16	21
All component wear rates are normal.	Iron	ppm	ASTM D5185m	>151	148	92	84
	Chromium	ppm	ASTM D5185m	>11	3	2	2
	Nickel	ppm	ASTM D5185m	>10	<1	<1	0
	Titanium	ppm	ASTM D5185m		1	<1	<1
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>21	<b>11</b>	0	5
	Lead	ppm	ASTM D5185m	>51	<1	0	0
	Copper	ppm	ASTM D5185m	>51	3	2	1
	Tin	ppm	ASTM D5185m	>4	<1	<1	0
	Vanadium	ppm	ASTM D5185m		<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	LIGHT	MODER
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>31	<b>▲</b> 38	23	22
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.	Potassium	ppm	ASTM D5185m		6	4	2
	Water	la la	WC Method	>0.1	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	>0.1	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>51	12	6	8
The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185m		155	52	41
	Barium	ppm	ASTM D5185m		10	4	6
	Molybdenum	ppm	ASTM D5185m		198	106	104
	Manganese	ppm	ASTM D5185m		5	4	4
	Magnesium	ppm	ASTM D5185m		304	17	18
	Calcium	ppm	ASTM D5185m		4651	3819	4273
	Phosphorus	ppm	ASTM D5185m		1639	1163	1221
	Zinc	ppm	ASTM D5185m		1808	1369	1416
	Sulfur	ppm	ASTM D5185m		10228	9419	10227
	Visc @ 40°C	cSt	ASTM D445	117	57.4	60.5	61.9

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Submitted By: JOHN MARTIN







Certificate L2367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : LEC0049628 Lab Number : 06149672

Unique Number : 10979750

Received **Tested** 

Diagnosed Test Package : CONST ( Additional Tests: PQ )

: 16 Apr 2024 : 18 Apr 2024 - Jonathan Hester

: 15 Apr 2024

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. LESLIE EQUIPMENT COMPANY

105 TENNIS CENTER DR. MARIETTA, OH US 45750-9765 Contact: LEANNE KENDALL

KendalLeanne@lec1.com T:

F: (740)373-5570 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)