



WEAR
CONTAMINATION
FLUID CONDITION

NORMAL

ABNORMAL

NORMAL

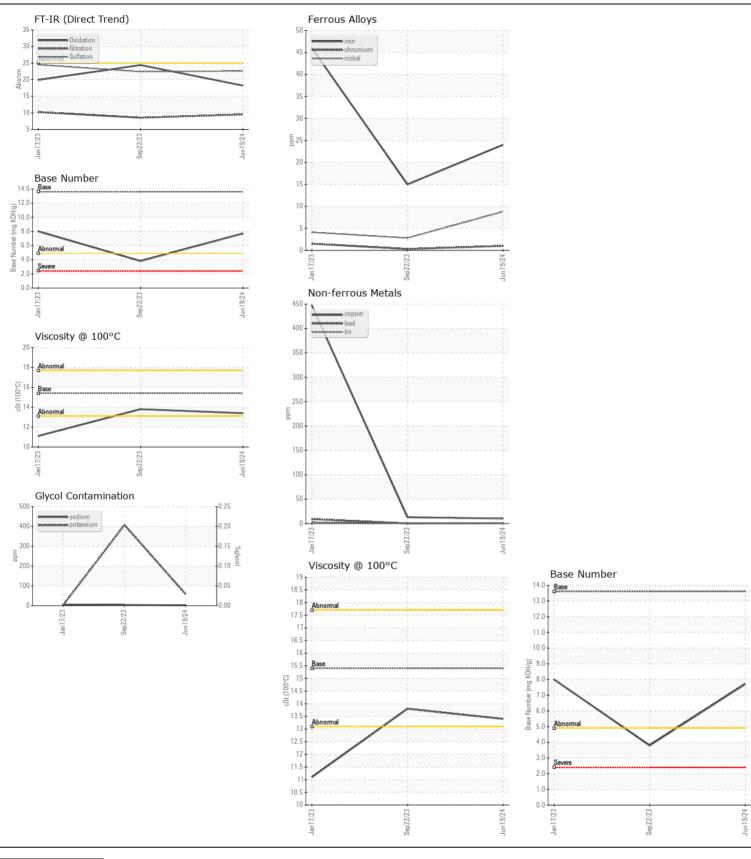
Area

## Store 4 - Fairmont

## **JOHN DEERE 210G 1FF210GXJNF530304**

Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (6 GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Check for low coolant level. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number	00	Client Info		LEC0051042	LEC0045604	LEC0037187
	Sample Date		Client Info		19 Jun 2024	22 Sep 2023	17 Jan 2023
	Machine Age	hrs	Client Info		1664	1294	650
	Oil Age	hrs	Client Info		370	644	650
	Filter Age	hrs	Client Info		370	644	650
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR	Iron	ppm	ASTM D5185m	>51	24	15	46
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>11	1	<1	2
	Nickel	ppm	ASTM D5185m	>5	9	3	4
	Titanium	ppm	ASTM D5185m		<1	<1	<1
	Silver	ppm	ASTM D5185m		<1	0	0
	Aluminum	ppm	ASTM D5185m		6	16	4
	Lead	ppm	ASTM D5185m		<1	0	9
	Copper	ppm	ASTM D5185m		10	13	<u>447</u>
	Tin	ppm	ASTM D5185m	>4	<1	<1	3
	Vanadium	ppm	ASTM D5185m		<1	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>!20	9	12	10
Sodium and/or potassium levels are high.	Potassium	ppm	ASTM D5185m	>20	<b>△</b> 56	<u></u> 407	2
	Fuel		WC Method	>2.1	<1.0	<1.0	0.7
	Water		WC Method	>0.21	NEG	NEG	NEG
	Glycol	%	*ASTM D2982		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.4	0.3	0.5
	Nitration	Abs/cm	*ASTM D7624	>20	9.5	8.5	10.2
	Sulfation	Abs/.1mm	*ASTM D7415		22.6	22.4	24.5
	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	2	4	5
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185m		231	447	119
	Barium	ppm	ASTM D5185m		3	7	0
	Molybdenum	ppm	ASTM D5185m		362	0 1041	205
	Manganese	ppm	ASTM D5185m		1	<1	4
	Magnesium	ppm	ASTM D5185m		722	186	867
	Calcium	ppm	ASTM D5185m		1315	638	1548
	Phosphorus	ppm	ASTM D5185m		776	171	850
	Zinc	ppm	ASTM D5185m		993	195	1115
	Sulfur	ppm	ASTM D5185m	05	2822	2565	2815
	Oxidation	Abs/.1mm	*ASTM D7414		18.2	24.4	19.9
	Base Number (BN)				7.7	▲ 3.8	8.0
	Visc @ 100°C	cSt	ASTM D445	15.4	13.4	13.8	11.1







Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06219481 Unique Number : 11097678

: LEC0051042

Received : 25 Jun 2024 **Tested** Diagnosed

: 26 Jun 2024

: 26 Jun 2024 - Sean Felton

Test Package: CONST (Additional Tests: Glycol, TBN)

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

To discuss this sample report, contact Customer Service at 1-800-237-1369.

LESLIE EQUIPMENT COMPANY

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Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)