



RECOMMENDATION

Store 4 - Fairmont JOHN DEERE 210G 1FF210GXJNF530304

Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (6 GAL)

We advise that you check for the source of the coolant leak. Check for low coolant level. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

	- 1

All component wear rates are normal.

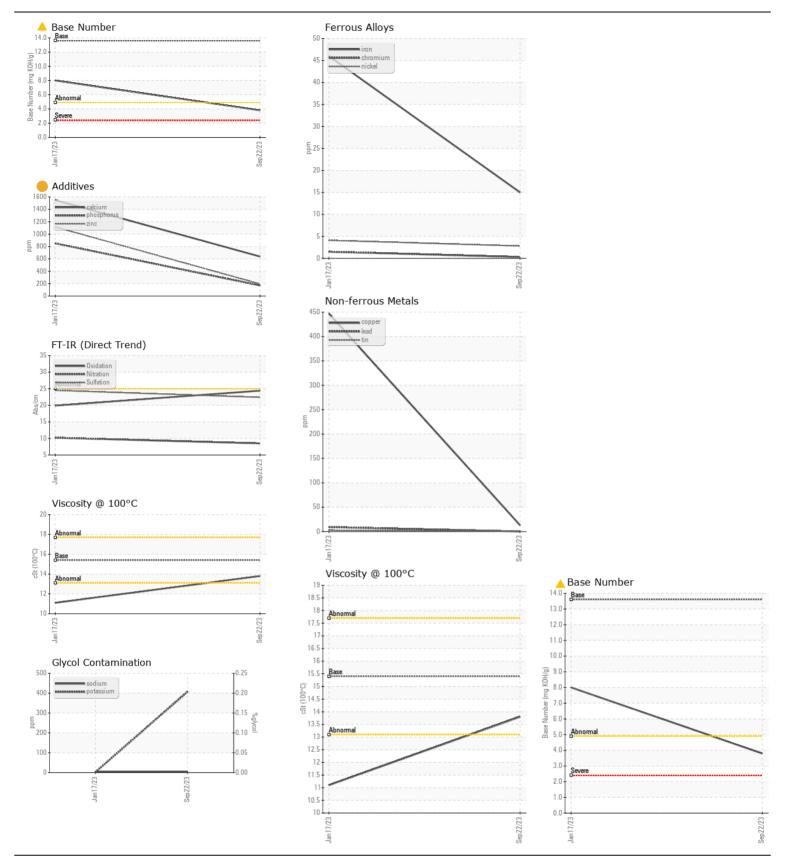
CONTAMINATION

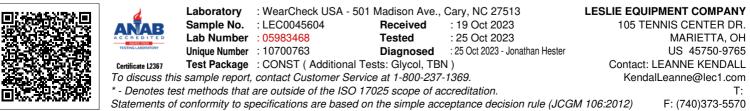
Sodium and/or potassium levels are high.

FLUID CONDITION

Additive levels indicate the addition of a different brand, or type of oil. The BN level is low. The condition of the oil is acceptable for the time in service.

50 50 11 15 11	10 (0					
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0045604	LEC0037187	
Sample Date		Client Info		22 Sep 2023	17 Jan 2023	
Machine Age	hrs	Client Info		1294	650	
Oil Age	hrs	Client Info		644	650	
Filter Age	hrs	Client Info		644	650	
Oil Changed		Client Info		Changed	Changed	
Filter Changed		Client Info		Changed	Changed	
Sample Status		0.0.0.0		ABNORMAL	ABNORMAL	
Iron	ppm	ASTM D5185m	>51	15	46	
Chromium	ppm	ASTM D5185m	>11	<1	2	
Nickel	ppm	ASTM D5185m	>5	3	4	
Titanium	ppm	ASTM D5185m		<1	<1	
Silver	ppm	ASTM D5185m	>3	0	0	
Aluminum	ppm	ASTM D5185m		16	4	
Lead	ppm	ASTM D5185m	>26	0	9	
Copper	ppm	ASTM D5185m	>26	13	447	
Tin	ppm	ASTM D5185m	>4	<1	3	
Vanadium	ppm	ASTM D5185m	21	0	<1	
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal		*Visual	NONE	NONE	NONE	
	scalar	visual	NONE	NONE	NONE	
Silicon	ppm	ASTM D5185m	>!20	12	10	
Potassium	ppm	ASTM D5185m	>20	407	2	
Fuel	le le	WC Method	>2.1	<1.0	0.7	
Water		WC Method		NEG	NEG	
Glycol	%	*ASTM D2982	/ 0.121	NEG	NEG	
Soot %	%	*ASTM D7844	>3	0.3	0.5	
Nitration	Abs/cm	*ASTM D7624	>20	8.5	10.2	
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.4	24.5	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
		*Visual	NORML	NORML	NORML	
Appearance Odor	scalar scalar	*Visual	NORML	NORML	NORML	
Emulsified Water		*Visual		NORME	NEG	
Emuisilieu waler	scalar	visual	>0.21	NEG	NEG	
Sodium	ppm	ASTM D5185m	>31	4	5	
Boron	ppm	ASTM D5185m		447	119	
Barium	ppm	ASTM D5185m		7	0	
Molybdenum	ppm	ASTM D5185m		<u> </u>	205	
Manganese	ppm	ASTM D5185m		<1	4	
Ū		ASTM D5185m		186	867	
Magnesium Calcium	ppm	ASTM D5185m		638	1548	
	ppm					
Phosphorus	ppm	ASTM D5185m		171	850	
Zinc	ppm	ASTM D5185m		195	1115	
Sulfur	ppm	ASTM D5185m	05	2565	2815	
Oxidation	Abs/.1mm	*ASTM D7414	>25	24.4	19.9	
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	3.8	8.0	
Visc @ 100°C	cSt	ASTM D445	15.4	13.8	11.1	





Submitted By: JEFF SHERRY Page 2 of 2