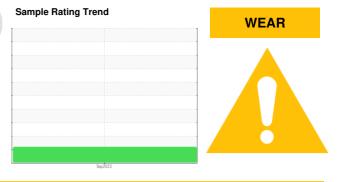


PROBLEM SUMMARY

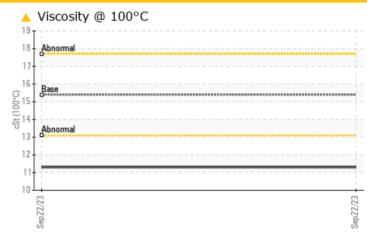


Area **Store 4 - Fairmont** Machine Id **JOHN DEERE 210P 1FF210PATPF000151** Component **Diesel Engine** Fluid

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

COMPONENT CONDITION SUMMARY





RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Sample Status				ABNORMAL	
Copper	ppm	ASTM D5185m	>26	<u> </u>	
Visc @ 100°C	cSt	ASTM D445	15.4	11.3	

Customer Id: LESMAROH Sample No.: LEC0043913 Lab Number: 05962092 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data: Doug Bogart +1 (800)237-1369 x4016 <u>dougb@wearcheckusa.com</u>

To change component or sample information: Customer Service +1 1-800-237-1369 <u>customerservice@wearcheck.com</u>

RECOMMENDED ACTIONS					
Action	Status	Date	Done By	Description	
Change Fluid			?	Oil and filter change at the time of sampling has been noted.	
Change Filter			?	Oil and filter change at the time of sampling has been noted.	

HISTORICAL DIAGNOSIS



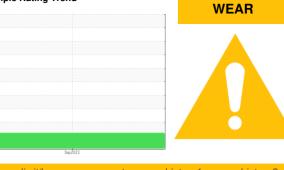
OIL ANALYSIS REPORT

Sample Rating Trend



Area Store 4 - Fairmont JOHN DEERE 210P 1FF210PATPF000151 Component Diesel Engine

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



DIAGNOSIS	

Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

🔺 Wear

The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		LEC0043913		
Sample Date		Client Info		22 Sep 2023		
Machine Age	hrs	Client Info		549		
Oil Age	hrs	Client Info		549		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINATION	V	method	limit/base	current	history1	history2
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>51	64		
Chromium	ppm	ASTM D5185m	>11	2		
Nickel	ppm	ASTM D5185m	>5	8		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>31	5		
Lead	ppm	ASTM D5185m	>26	1		
Copper	ppm	ASTM D5185m	>26	<u> </u>		
Tin	ppm	ASTM D5185m	>4	2		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		130		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		244		
Manganese	ppm	ASTM D5185m		6		
Magnesium	ppm	ASTM D5185m		752		
Calcium	ppm	ASTM D5185m		1607		
Phosphorus	ppm	ASTM D5185m		913		
Zinc	ppm	ASTM D5185m		1154		
Sulfur	ppm	ASTM D5185m		2956		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>!20	12		
Sodium	ppm	ASTM D5185m	>31	9		
Potassium	ppm	ASTM D5185m	>20	6		
Fuel	%	ASTM D3524	>2.1	0.3		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.7		
Nitration	Abs/cm	*ASTM D7624	>20	9.8		
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.6		
FLUID DEGRADA		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.7		
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	7.7		



OIL ANALYSIS REPORT

