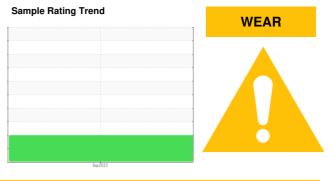


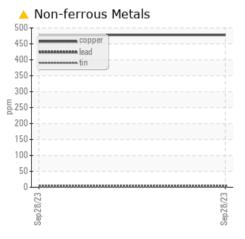
PROBLEM SUMMARY

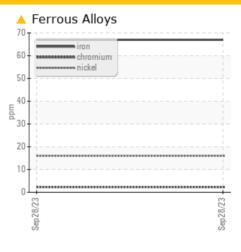


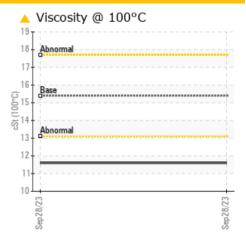
Area **Store 9 - Marietta** Machine Id **JOHN DEERE 210G 1FF210GXHNF530701** Component **Diesel Engine** Fluid

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.

PROBLEMATIC TEST RESULTS								
Sample Status				ABNORMAL				
Nickel	ppm	ASTM D5185m	>5	<u> </u>				
Copper	ppm	ASTM D5185m	>26	478				
Visc @ 100°C	cSt	ASTM D445	15.4	<u> </u>				

Customer Id: LESMAROH Sample No.: LEC0040927 Lab Number: 05966083 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 <u>jhester@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



Store 9 - Marietta **JOHN DEERE 210G 1FF210GXHNF530701** Component **Diesel Engine**

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



υ	·/-	N	U	0	10	

Recommendation

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

A Wear

The copper level is abnormal. The nickel 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

Fuel content negligible. There is no indication of any contamination in the oil.

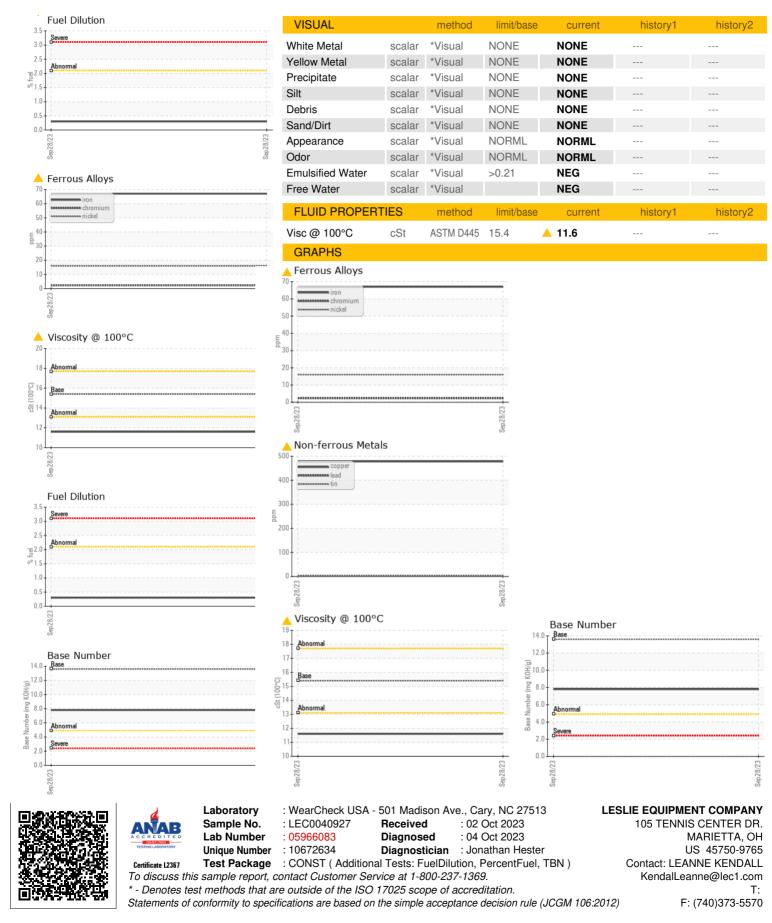
Fluid Condition

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		LEC0040927		
Sample Date		Client Info		28 Sep 2023		
Machine Age	hrs	Client Info		531		
Oil Age	hrs	Client Info		531		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINATION	١	method	limit/base	current	history1	history2
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>51	67		
Chromium	ppm	ASTM D5185m	>11	2		
Nickel	ppm	ASTM D5185m	>5	<u> </u>		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>31	6		
Lead	ppm	ASTM D5185m	>26	2		
Copper	ppm	ASTM D5185m	>26	478		
Tin	ppm	ASTM D5185m	>4	3		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		278		
Barium	ppm	ASTM D5185m		3		
Molybdenum	ppm	ASTM D5185m		292		
Manganese	ppm	ASTM D5185m		9		
Magnesium	ppm	ASTM D5185m		972		
Calcium	ppm	ASTM D5185m		2125		
Phosphorus	ppm	ASTM D5185m		1198		
Zinc	ppm	ASTM D5185m		1479		
Sulfur	ppm	ASTM D5185m		3795		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>!20	15		
Sodium	ppm	ASTM D5185m	>31	13		
Potassium	ppm	ASTM D5185m	>20	8		
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	9.7		
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.2		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.8		
Base Number (BN)	mg KOH/g	ASTM D2896		7.8		



OIL ANALYSIS REPORT



Submitted By: MIKE CRONIN