

PROBLEM SUMMARY



Sample Rating Trend





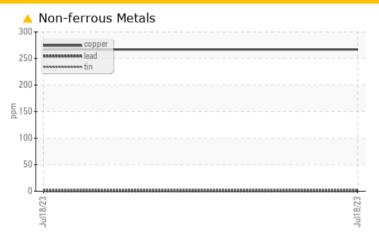


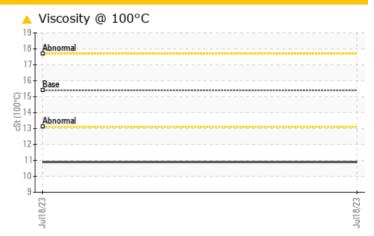
Store 1 - Cowen Machine Id JOHN DEERE 210G 1FF210GXVMF529638

Component **Diesel Engine**

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 R	ESULTS			
Sample Status				ABNORMAL	
Copper	ppm	ASTM D5185m	>26	^ 267	
Visc @ 100°C	cSt	ASTM D445	15.4	10.9	

Customer Id: LESMAROH Sample No.: LEC0042852 Lab Number: 05903136 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 dougb@wearcheckusa.com

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

RECOMMENDE	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



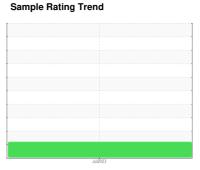
OIL ANALYSIS REPORT



Store 1 - Cowen **JOHN DEERE 210G 1FF210GXVMF529638**

Diesel Engine

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

Fuel content negligible. No other contaminants were detected 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.

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SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		LEC0042852		
Sample Date		Client Info		18 Jul 2023		
Machine Age	hrs	Client Info		742		
Oil Age	hrs	Client Info		742		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINATIO	N	method	limit/base	current	history1	history2
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>51	63		
Chromium	ppm	ASTM D5185m	>11	2		
Nickel	ppm	ASTM D5185m	>5	15		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>31	5		
Lead	ppm	ASTM D5185m	>26	0		
Copper	ppm	ASTM D5185m	>26	<u>^</u> 267		
Tin	ppm	ASTM D5185m	>4	3		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		129		
Barium	ppm	ASTM D5185m		<1		
Molybdenum	ppm	ASTM D5185m		235		
Manganese	ppm	ASTM D5185m		6		
Magnesium	ppm	ASTM D5185m		903		
Calcium	ppm	ASTM D5185m		1529		
Phosphorus	ppm	ASTM D5185m		894		
Zinc	ppm	ASTM D5185m		1137		
Sulfur	ppm	ASTM D5185m		3312		
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>!20	11		
Sodium	ppm	ASTM D5185m	>31	7		
Potassium	ppm	ASTM D5185m	>20	3		
Fuel	%	ASTM D3524	>2.1	0.4		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5		
Nitration	Abs/cm	*ASTM D7624	>20	10.4		
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.8		
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	22.5		
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	7.3		
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OIL ANALYSIS REPORT







Laboratory Sample No. Lab Number **Unique Number**

: LEC0042852 : 05903136

: 10564492

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 20 Jul 2023 Diagnosed : 23 Jul 2023

Diagnostician : Doug Bogart

Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, TBN) Certificate L2367 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. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

LESLIE EQUIPMENT COMPANY

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