



OIL ANALYSIS REPORT

WEAR CONTAMINATION **FLUID CONDITION** **ABNORMAL** NORMAL **ATTENTION**

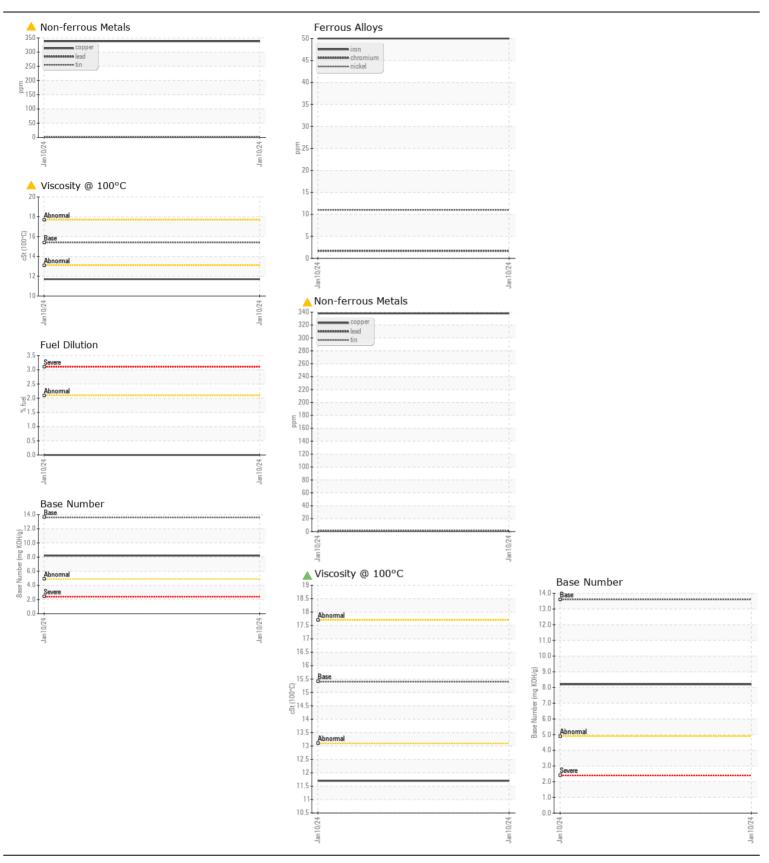


Store 1 - Cowen [146367]

JOHN DEERE 210P 1FF210PAHPF000369

Component Diesel Engine

JOHN DEERE ENGINE OIL PLU	S 50 II 15W	40 (6	GAL)				
RECOMMENDATION Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		LEC0045974		
	Sample Date		Client Info		10 Jan 2024		
	Machine Age	hrs	Client Info		406		
	Oil Age	hrs	Client Info		406		
	Filter Age	hrs	Client Info		406		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				ABNORMAL		
WEAR	Iron	ppm	ASTM D5185m	>51	50		
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.	Chromium	ppm	ASTM D5185m		2		
	Nickel	ppm	ASTM D5185m		11		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m	>3	0		
	Aluminum	ppm	ASTM D5185m	>31	4		
	Lead	ppm	ASTM D5185m	>26	1		
	Copper	ppm	ASTM D5185m	>26	△ 338		
	Tin	ppm	ASTM D5185m	>4	2		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION Fuel content negligible. There is no indication of any contamination in the oil.	Silicon	ppm	ASTM D5185m	~I20	11		
	Potassium	ppm	ASTM D5185m		3		
	Fuel	%	ASTM D3524		0.0		
	Water	70	WC Method		NEG		
	Glycol		WC Method	, 0.2.	NEG		
	Soot %	%	*ASTM D7844	>3	0.7		
	Nitration	Abs/cm	*ASTM D7624	>20	9.7		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	25.1		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.21	NEG		
ELUID CONDITION	Sodium	nnm	ACTM DE10Em	. 01	4		
FLUID CONDITION	Boron	ppm	ASTM D5185m ASTM D5185m	>31	4 229		
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Barium	ppm	ASTM D5185m		5		
	Molybdenum	ppm	ASTM D5185m		247		
	Manganese	ppm	ASTM D5185m		5		
	Magnesium	ppm	ASTM D5185m		797		
	Calcium	ppm	ASTM D5185m		1511		
	Phosphorus	ppm	ASTM D5185m		870		
	Zinc	ppm	ASTM D5185m		1065		
	Sulfur	ppm	ASTM D5185m		2857		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	20.6		
	Base Number (BN)				8.2		
	Visc @ 100°C	cSt	ASTM D445	15.4	11.7		







Certificate L2367

Laboratory Sample No. Lab Number

: 06059153 : 10830535 **Unique Number**

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 12 Jan 2024 : LEC0045974 Diagnosed : 16 Jan 2024

Diagnostician : Don Baldridge Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, TBN)

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)

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