



WEAR
CONTAMINATION
FLUID CONDITION

NORMAL ABNORMAL ABNORMAL

Area

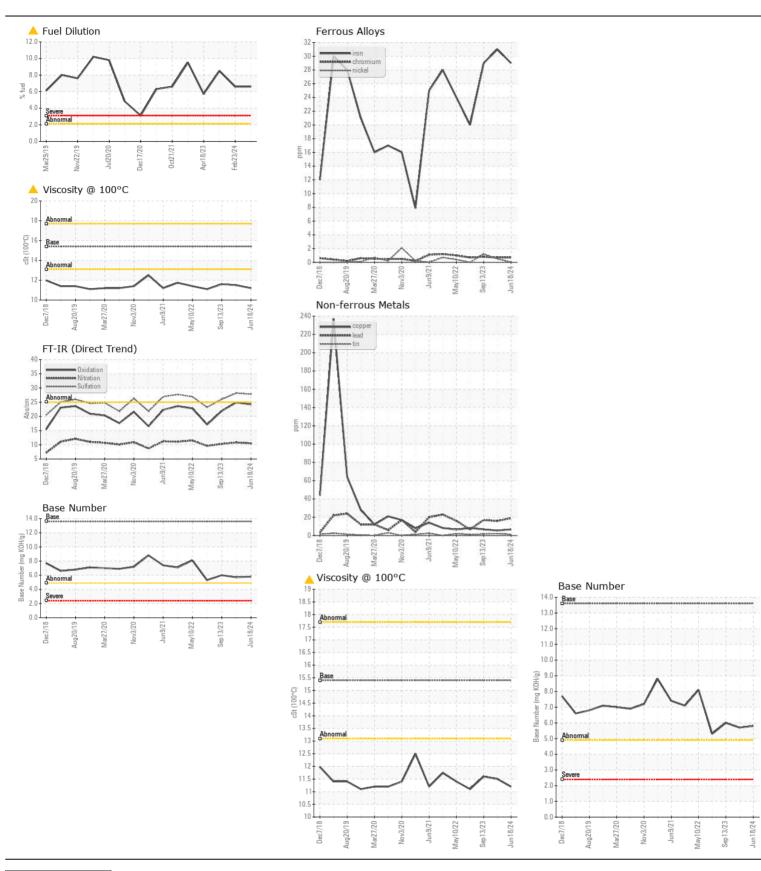


Store 2 - Beaver [RO#152201]

JOHN DEERE 470GL 1FF470GXCJF235366

Diesel Engine

JOHN DEERE ENGINE OIL PL	US 50 II 15W	40 (1	1 GAL)				
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		LEC0051127	-	LEC0043543
	Sample Date		Client Info		18 Jun 2024	23 Feb 2024	13 Sep 2023
	Machine Age	hrs	Client Info		7439	6956	6447
	Oil Age	hrs	Client Info		483	509	494
	Filter Age	hrs	Client Info		483	509	494
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ABNORMAL	ABNORMAL	SEVERE
WEAR	Iron	ppm	ASTM D5185m	>58	29	31	29
	Chromium	ppm	ASTM D5185m	>11	<1	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	<1	1
	Titanium	ppm	ASTM D5185m		<1	0	<1
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		4	4	6
	Lead	ppm	ASTM D5185m		19	16	17
	Copper	ppm	ASTM D5185m	>26	7	6	7
	Tin	ppm	ASTM D5185m	>4	1	2	2
	Vanadium	ppm	ASTM D5185m		<1	<1	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>!20	12	11	13
	Potassium	ppm	ASTM D5185m	>20	5	5	10
There is a moderate amount of fuel present in the oil.	Fuel	%	ASTM D3524	>2.1	▲ 6.6	△ 6.6	▲ 8.5
	Water		WC Method	>0.21	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.4	0.4	0.4
	Nitration	Abs/cm	*ASTM D7624	>20	10.5	10.8	10.3
	Sulfation	Abs/.1mm	*ASTM D7415	>30	27.8	28.2	26.0
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.	Sodium	ppm	ASTM D5185m	>31	10	9	13
	Boron	ppm	ASTM D5185m		37	37	39
	Barium	ppm	ASTM D5185m		<1	0	0
	Molybdenum	ppm	ASTM D5185m		242	239	221
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		818	905	725
	Calcium	ppm	ASTM D5185m		1497	1583	1481
	Phosphorus	ppm	ASTM D5185m		900	859	873
	Zinc	ppm	ASTM D5185m		1100	1191	1090
	Sulfur	ppm	ASTM D5185m		3250	3019	2860
	Oxidation	Abs/.1mm	*ASTM D7414		24.2	24.9	21.9
	Base Number (BN)	0 0	ASTM D2896		5.8	5.7	6.0
	Visc @ 100°C	cSt	ASTM D445	15.4	11.2	<u> </u>	<u> 11.6</u>







Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : LEC0051127 Lab Number : 06215676

Unique Number: 11088540

Received : 20 Jun 2024 **Tested** : 24 Jun 2024 Diagnosed

: 24 Jun 2024 - Jonathan Hester

Test Package : CONST (Additional Tests: 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.

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Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)