



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

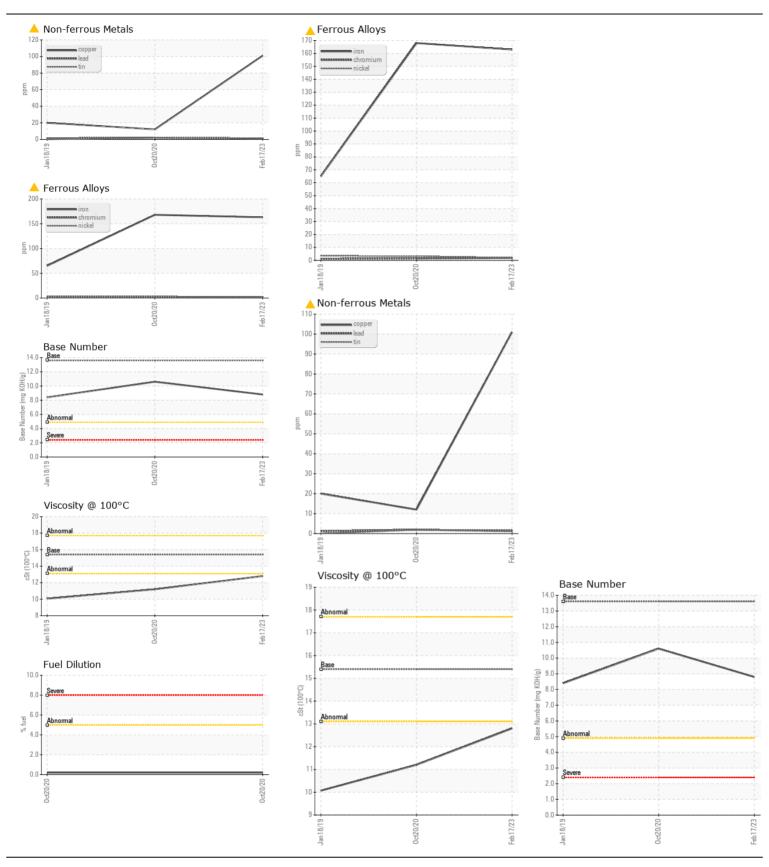


Store 4 - Fairmont

JOHN DEERE 950K 1T0950KPCJF334368

Component Diesel Engine

JOHN DEERE ENGINE OIL PLU	IS 50 II 15W	40 (7	GAL)				
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		LEC0039582	-	LECP193391
	Sample Date		Client Info		17 Feb 2023	20 Oct 2020	18 Jan 2019
	Machine Age	hrs	Client Info		1496	905	432
	Oil Age	hrs	Client Info		591	473	432
	Filter Age	hrs	Client Info		591	473	432
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ABNORMAL	ABNORMAL	NORMAL
WEAR The copper level is abnormal. Cylinder, crank, or cam shaft wear is indicated. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core).	Iron	ppm	ASTM D5185m	>51	<u> </u>	<u> </u>	65
	Chromium	ppm	ASTM D5185m	>11	2	2	1
	Nickel	ppm	ASTM D5185m	>5	2	3	4
	Titanium	ppm	ASTM D5185m		0	<1	<1
	Silver	ppm	ASTM D5185m	>3	<1	<1	0
	Aluminum	ppm	ASTM D5185m	>31	8	6	8
	Lead	ppm	ASTM D5185m	>26	1	2	1
	Copper	ppm	ASTM D5185m	>26	<u> </u>	12	20
	Tin	ppm	ASTM D5185m	>4	2	2	0
	Vanadium	ppm	ASTM D5185m		0	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION There is no indication of any contamination in the oil.	Silicon	ppm	ASTM D5185m	>!20	10	9	10
	Potassium	ppm	ASTM D5185m	>20	8	31	20
	Fuel	%	ASTM D3524	>5	<1.0	0.2	<1.0
	Water		WC Method	>0.21	NEG	NEG	NEG
	Glycol		WC Method		NEG	0.0	NEG
	Soot %	%	*ASTM D7844	>3	0.5	0.3	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	9.3	8	8.5
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.5	22.1	21.8
	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	Sodium	ppm	ASTM D5185m	>31	23	<u></u> 185	11
The DN recult indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		155	181	174
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.	Barium	ppm	ASTM D5185m		0	0	3
	Molybdenum	ppm	ASTM D5185m		250	182	226
	Manganese	ppm	ASTM D5185m		2	2	2
	Magnesium	ppm	ASTM D5185m		759	620	834
	Calcium	ppm	ASTM D5185m		1544	2257	1505
	Phosphorus	ppm	ASTM D5185m		781	969	819
	Zinc	ppm	ASTM D5185m		963	1191	996
	Sulfur	ppm	ASTM D5185m		2969	2896	2431
	Oxidation	Abs/.1mm	*ASTM D7414		16.3	15.3	16.4
	Base Number (BN)				8.8	10.6	8.4
	Visc @ 100°C	cSt	ASTM D445	15.4	12.8	▲ 11.2	10.07







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

: 05773378 : 10347995

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 21 Feb 2023 : LEC0039582 Diagnosed : 22 Feb 2023

Diagnostician : Jonathan Hester 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

105 TENNIS CENTER DR. MARIETTA, OH US 45750-9765 Contact: LEANNE KENDALL

KendalLeanne@lec1.com

T: F: (740)373-5570