



OIL ANALYSIS REPORT

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

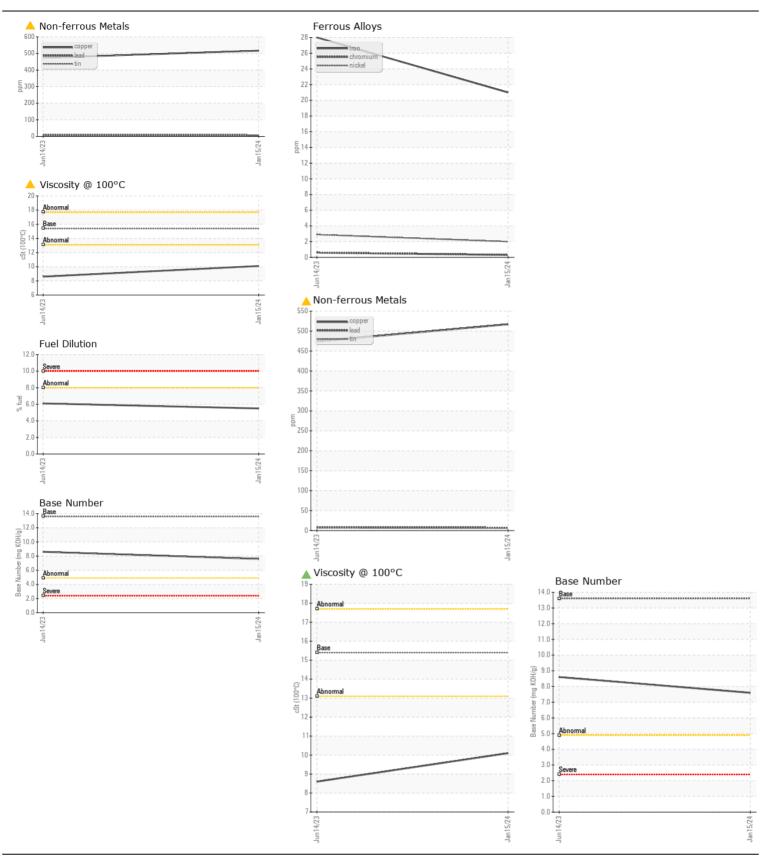


Store 2 - Beaver [RO#146830]

JOHN DEERE 1050K 1T01050PEJF332204

Component
Diesel Engine
Fluid

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		LEC0046908	LEC0041462	
	Sample Date		Client Info		15 Jan 2024	14 Jun 2023	
	Machine Age	hrs	Client Info		815	210	
	Oil Age	hrs	Client Info		605	210	
	Filter Age	hrs	Client Info		605	210	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				ABNORMAL	ABNORMAL	
WEAD	luan		ACTM DE10E		04	00	
WEAR	Iron	ppm	ASTM D5185m		21	28	
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 component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1	<1	
	Nickel	ppm	ASTM D5185m	>5	2	3	
	Titanium	ppm	ASTM D5185m	0	0	<1	
	Silver	ppm	ASTM D5185m		0	<1	
	Aluminum	ppm	ASTM D5185m		3	4	
	Lead	ppm	ASTM D5185m	>26	7	8	
	Copper	ppm	ASTM D5185m		<u>▲</u> 517	<u>474</u>	
	Tin	ppm	ASTM D5185m	>4	6	6	
	Vanadium	ppm	ASTM D5185m	NONE	0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>!20	11	15	
Fuel content negligible. No other contaminants were detected in the oil.	Potassium	ppm	ASTM D5185m	>20	5	4	
	Fuel	%	ASTM D3524	>8.0	5.5	△ 6.1	
	Water		WC Method	>0.21	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.1	0.1	
	Nitration	Abs/cm	*ASTM D7624	>20	8.4	7.8	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.2	21.4	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	4	11	
	Boron	ppm	ASTM D5185m		248	280	
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil.	Barium	ppm	ASTM D5185m		5	2	
	Molybdenum	ppm	ASTM D5185m		232	244	
	Manganese	ppm	ASTM D5185m		2	4	
	Magnesium	ppm	ASTM D5185m		759	789	
	Calcium	ppm	ASTM D5185m		1265	1384	
	Phosphorus	ppm	ASTM D5185m		844	888	
	Zinc	ppm	ASTM D5185m		1018	1065	
	Sulfur	ppm	ASTM D5185m		3208	3667	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	17.9	17.4	
	Base Number (BN)	mg KOH/g	ASTM D2896	13.6	7.6	8.6	
	Visc @ 100°C	cSt	ASTM D445	15.4	10.1	<u> </u>	







Certificate L2367

Laboratory Sample No. Lab Number

: 06064017 : 10835399 **Unique Number**

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 18 Jan 2024 : LEC0046908 Diagnosed : 22 Jan 2024 Diagnostician : Doug Bogart

Test Package: CONST (Additional Tests: 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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