



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

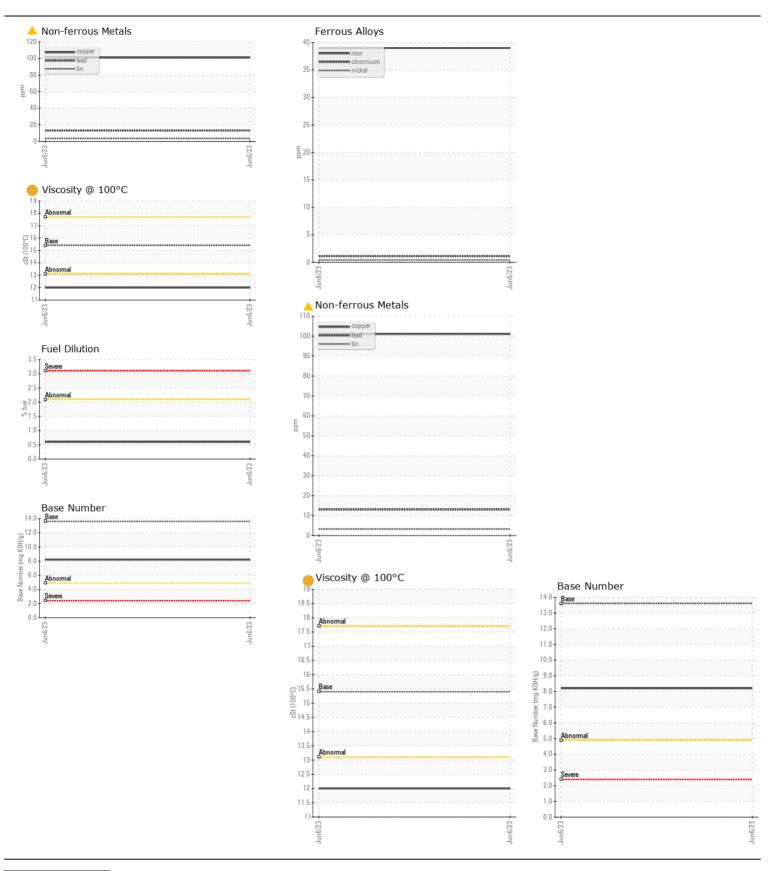


Store 2 - Beaver [RO#139855]

JOHN DEERE 550K 1T0550KKTNF432092

Component Diesel Engine

JOHN DEERE ENGINE OIL PLU	JS 30 II 13 W	70 (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		LEC0040569		
	Sample Date Machine Age	bro	Client Info		06 Jun 2023		
	U	hrs	Client Info		583 583		
	Oil Age Filter Age	hrs	Client Info		583		
	Oil Changed	hrs	Client Info				
					Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				ABNORMAL		
WEAR	Iron	ppm	ASTM D5185m	>51	39		
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	>11	1		
	Nickel	ppm	ASTM D5185m	>5	<1		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m	>3	0		
	Aluminum	ppm	ASTM D5185m		7		
	Lead	ppm	ASTM D5185m		13		
	Copper	ppm	ASTM D5185m	>26	<u> 101</u>		
	Tin	ppm	ASTM D5185m	>4	3		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>!20	10		
	Potassium	ppm	ASTM D5185m	>20	4		
Fuel content negligible. There is no indication of any contamination in the oil.	Fuel	%	ASTM D3524	>2.1	0.6		
	Water		WC Method	>0.21	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.6		
	Nitration	Abs/cm	*ASTM D7624	>20	11.4		
	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		
TI LUD CONDITION							
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	6		
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Boron	ppm	ASTM D5185m		68		
	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		196		
	Manganese	ppm	ASTM D5185m		3		
	Magnesium	ppm	ASTM D5185m		794		
	Calcium	ppm	ASTM D5185m		1649		
	Phosphorus	ppm	ASTM D5185m		907		
	Zinc	ppm	ASTM D5185m		1201		
	Sulfur	ppm	ASTM D5185m		3493		
	Oxidation	Abs/.1mm	*ASTM D7414		20.9		
	Base Number (BN)				8.2		
	Visc @ 100°C	cSt	ASTM D445	15.4	12.0		







Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : LEC0040569 Lab Number : 05869287

Unique Number : 10509071

Received : 09 Jun 2023 **Tested** Diagnosed

: 12 Jun 2023 : 13 Jun 2023 - Sean Felton

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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