



Area Store 2 - Beaver [RO#142726] **JOHN DEERE 550K 1T0550KKANF418184** Component Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (4 GAL)

RECOMMENDATION		Test	UOM	Method	Limit/Abn	Current LEC0042626	History1	History2
We advise that you check the fuel injection system. Oil and filter		Sample Number		Client Info				
change at the time of sampling has b		Sample Date	lava	Client Info		11 Sep 2023		
early resample to monitor this conditi		Machine Age	hrs	Client Info		517		
		Oil Age	hrs	Client Info		517		
		Filter Age	hrs	Client Info		517		
		Oil Changed		Client Info		Changed		
		Filter Changed		Client Info		Changed		
		Sample Status				SEVERE		
WEAR		Iron	ppm	ASTM D5185m	>51	45		
The copper level is abnormal. In the a metals, suspect copper due to source core).	•	Chromium	ppm	ASTM D5185m	>11	3		
		Nickel	ppm	ASTM D5185m	>5	1		
		Titanium	ppm	ASTM D5185m		<1		
		Silver	ppm	ASTM D5185m	>3	0		
		Aluminum	ppm	ASTM D5185m	>31	6		
		Lead	ppm	ASTM D5185m	>26	9		
		Copper	ppm	ASTM D5185m	>26	🔺 111		
		Tin	ppm	ASTM D5185m	>4	3		
		Vanadium	ppm	ASTM D5185m		0		
		White Metal	scalar	*Visual	NONE	NONE		
		Yellow Metal	scalar	*Visual	NONE	NONE		
	0:"				4 4 6 7			
CONTAMINATION		Silicon	ppm	ASTM D5185m		▲ 167 6		
Elemental level of silicon (Si) above r material. There is a high amount of fu		Potassium	ppm	ASTM D5185m		6		
		Fuel	%	ASTM D3524	>2.1	▲ 10.7		
		Water		WC Method	>0.21	NEG		
		Glycol Soot %	%	WC Method *ASTM D7844	. 0	NEG		
		Nitration	Abs/cm	*ASTM D7644	>3 >20	0.6 10.5		
		Sulfation	Abs/.1mm	*ASTM D7024		23.9		
		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		*Visual	>0.21	NEG		
FLUID CONDITION		Sodium	ppm	ASTM D5185m	>31	7		
First is supervised in the self-analysis laws		Boron	ppm	ASTM D5185m		98		
Fuel is present in the oil and is loweri indicates that there is suitable alkalin		Barium	ppm	ASTM D5185m		3		
		Molybdenum	ppm	ASTM D5185m		192		
		Manganese	ppm	ASTM D5185m		4		
		Magnesium	ppm	ASTM D5185m		625		
		Calcium	ppm	ASTM D5185m		1534		
		Phosphorus	ppm	ASTM D5185m		837		
		Zinc	ppm	ASTM D5185m		1035		
		Sulfur	ppm	ASTM D5185m		3300		
		Out deat	AL / J	*AOTH D7///	05			

Oxidation

Visc @ 100°C cSt

19.4

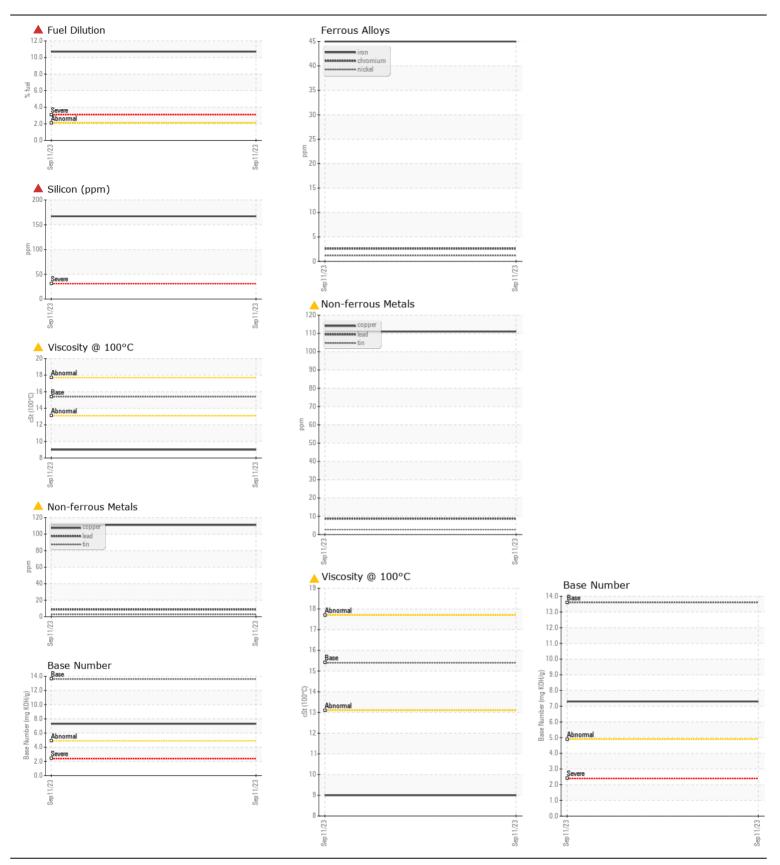
7.3

9

Abs/.1mm *ASTM D7414 >25

ASTM D445 15.4

Base Number (BN) mg KOH/g ASTM D2896 13.6



LESLIE EQUIPMENT COMPANY Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 105 TENNIS CENTER DR. Sample No. : LEC0042626 Received : 13 Sep 2023 Lab Number : 05950667 Tested : 15 Sep 2023 MARIETTA, OH : 18 Sep 2023 - Jonathan Hester US 45750-9765 Unique Number : 10646626 Diagnosed Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, TBN) Contact: LEANNE KENDALL Certificate L2367 KendalLeanne@lec1.com 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. T: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (740)373-5570

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