



## Store 2 - Beaver [RO#149101] JOHN DEERE 550K 1T0550KKANF418184

Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 10W30 (4 GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		LEC0048848	LEC0048506	LEC0035463
Resample at the next service interval to monitor. (Customer Sample	Sample Date		Client Info		11 Apr 2024	06 Mar 2024	02 Oct 2023
Comment: Replaced Eng. Sample new oil. Break in oil )	Machine Age	hrs	Client Info		628	626	547
	Oil Age	hrs	Client Info		1	109	30
	Filter Age	hrs	Client Info		1	109	30
	Oil Changed		Client Info		Changed	Not Changd	Not Changd
	Filter Changed		Client Info		Changed	Not Changd	Not Changd
	Sample Status				NORMAL	SEVERE	SEVERE
					_	40	0
WEAR	Iron	ppm	ASTM D5185m		7	13	8
All component wear rates are normal.	Chromium Nickel	ppm	ASTM D5185m		<1	<1	<1
		ppm	ASTM D5185m	>5	0	<1	0
	Titanium	ppm	ASTM D5185m	0	0	<1	0
	Silver	ppm	ASTM D5185m		0	<1	0
	Aluminum	ppm	ASTM D5185m		6	5	5
	Lead	ppm	ASTM D5185m		<1	2	<1
	Copper Tin	ppm	ASTM D5185m		1	15	12
		ppm		>4	<1	<1	<1
	Vanadium White Metal	ppm	ASTM D5185m	NONE		<1 NONE	<1 NONE
		scalar	*Visual	NONE	NONE NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE		NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>!20	9	<b>1</b> 95	<b>9</b> 6
	Potassium	ppm	ASTM D5185m	>20	<1	3	2
Fuel content negligible. There is no indication of any contamination in the oil.	Fuel	%	ASTM D3524	>2.1	0.2	▲ 8.0	<b>1</b> 2.5
	Water		WC Method	>0.21	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0	0.2	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	5.6	8.7	6.8
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.0	22.0	19.7
	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		ASTM D5185m	. 01	1	.1	1
FLUID CONDITION	Boron	ppm	ASTM D5185m	>01	335	<1 255	290
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		2	0	0
	Molybdenum	ppm ppm	ASTM D5185m		255	240	234
	Manganese	ppm	ASTM D5185m		3	<1	<1
	Magnesium	ppm	ASTM D5185m		880	747	687
	Calcium	ppm	ASTM D5185m		1406	1273	1167
	Phosphorus	ppm	ASTM D5185m		979	875	806
	Zinc	ppm	ASTM D5185m		1098	995	949
	Sulfur	ppm	ASTM D5185m		3753	2988	2943
	Oxidation	Abs/.1mm	*ASTM D310311	>25	14.6	18.1	15.2
	Base Number (BN)			-20	10.5	9.1	8.2
		ing toning			10.0	0.1	0.2

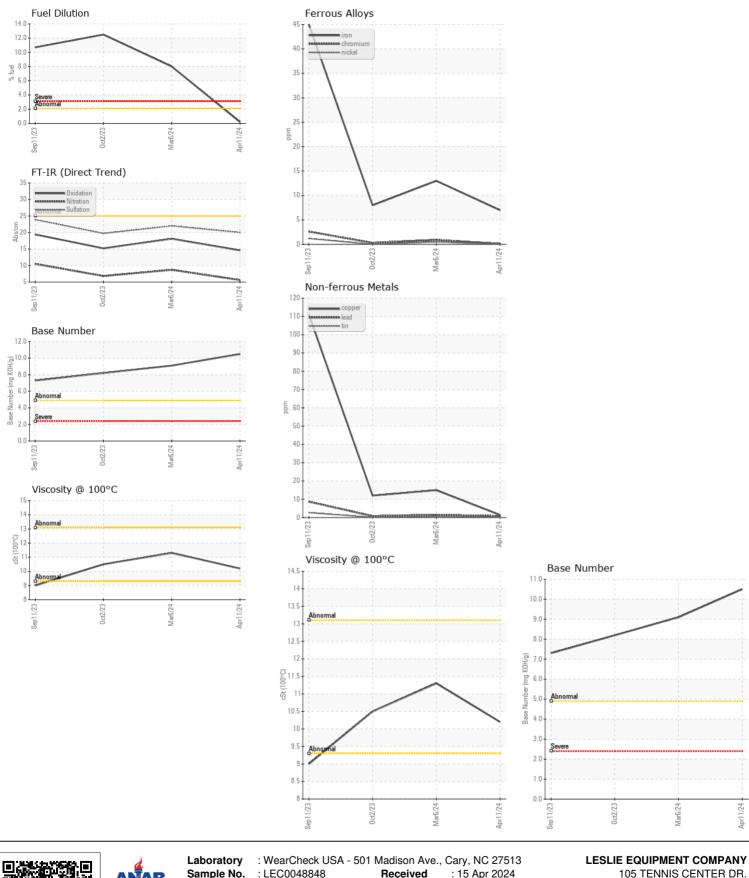
Visc @ 100°C cSt

ASTM D445

11.3

**1**0.5

10.2



Sample No. Received 105 TENNIS CENTER DR. : LEC0048848 : 15 Apr 2024 Lab Number : 06149292 Tested MARIETTA, OH : 17 Apr 2024 Diagnosed : 17 Apr 2024 - Don Baldridge US 45750-9765 Unique Number : 10979370 Test Package : CONST ( Additional Tests: 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

Submitted By: STORE 2 - BEAVER - CASEY TONEY Page 2 of 2