



OIL ANALYSIS REPORT

WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL



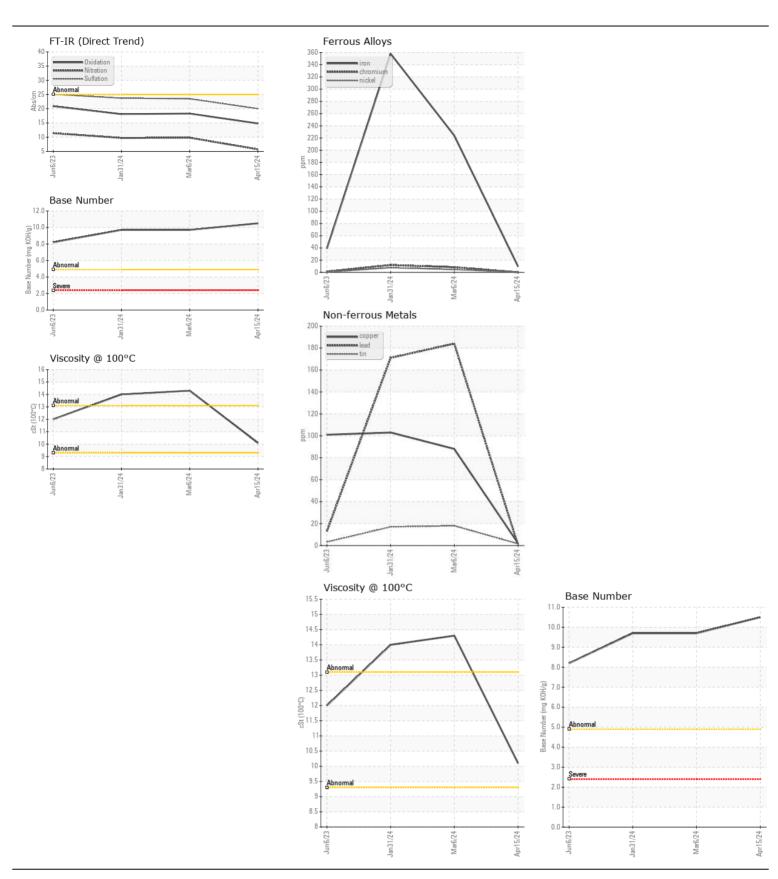
Store 2 - Beaver [RO#147458]

JOHN DEERE 550K 1T0550KKTNF432092

Diesel Engine

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

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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. (Customer Sample Comment: Installed new engine. sampled new oil. Break in oil)	Sample Number		Client Info		LEC0048847	LEC0048511	LEC0047521
	Sample Date		Client Info		15 Apr 2024	06 Mar 2024	31 Jan 2024
	Machine Age	hrs	Client Info		1101	1100	1099
	Oil Age	hrs	Client Info		1	517	516
	Filter Age	hrs	Client Info		1	517	516
	Oil Changed		Client Info		Changed	Not Changd	Not Changd
	Filter Changed		Client Info		Changed	Not Changd	Not Changd
	Sample Status				NORMAL	SEVERE	SEVERE
WEAR	Iron	ppm	ASTM D5185m	>51	10	2 24	▲ 358
All component wear rates are normal for time on oil.	Chromium	ppm	ASTM D5185m		0	8	<u>▲</u> 12
	Nickel	ppm	ASTM D5185m		0	5	<u>8</u>
	Titanium	ppm	ASTM D5185m	70	0	5	6
	Silver	ppm	ASTM D5185m	\3	0	<1	0
	Aluminum	ppm	ASTM D5185m		7	119	135
	Lead	ppm	ASTM D5185m		<1	▲ 184	▲ 171
	Copper	ppm	ASTM D5185m		2	<u> 88</u>	<u></u> 103
	Tin	ppm	ASTM D5185m		2	▲ 18	▲ 17
	Vanadium	ppm	ASTM D5185m		0	<1	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>!20	8	226	2 53
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	2	35	40
	Fuel		WC Method	>2.1	<1.0	<1.0	<1.0
	Water		WC Method	>0.21	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.1	0.6	0.7
	Nitration	Abs/cm	*ASTM D7624	>20	5.7	9.8	9.7
	Sulfation	Abs/.1mm	*ASTM D7415		20.0	23.5	23.7
	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	ppm	ASTM D5185m	>31	2	7	9
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		282	89	84
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		3	0	0
	Molybdenum	ppm	ASTM D5185m		218	170	168
	Manganese	ppm	ASTM D5185m		2	5	6
	Magnesium	ppm	ASTM D5185m		824	813	724
	Calcium	ppm	ASTM D5185m		1417	1511	1340
	Phosphorus	ppm	ASTM D5185m		840	1004	927
	Zinc	ppm	ASTM D5185m		1034	1291	1144
	Sulfur	ppm	ASTM D5185m		3679	3350	2947
	Oxidation	Abs/.1mm	*ASTM D7414	>25	14.8	18.3	18.1
	Base Number (BN)		ASTM D2896		10.5	9.7	9.7
	Visc @ 100°C	cSt	ASTM D445		10.1	14.3	14.0







Certificate L2367

Laboratory Sample No.

Lab Number : 06150162 Unique Number : 10980240 Test Package : CONST (Additional Tests: TBN)

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : LEC0048847 Received

: 16 Apr 2024 **Tested** Diagnosed

: 17 Apr 2024

: 18 Apr 2024 - Don Baldridge

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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