



## Area Store 1 - Cowen [147365] Machine Id JOHN DEERE 550K 1T0550KXKGF300306NEW Component Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (5 GAL)

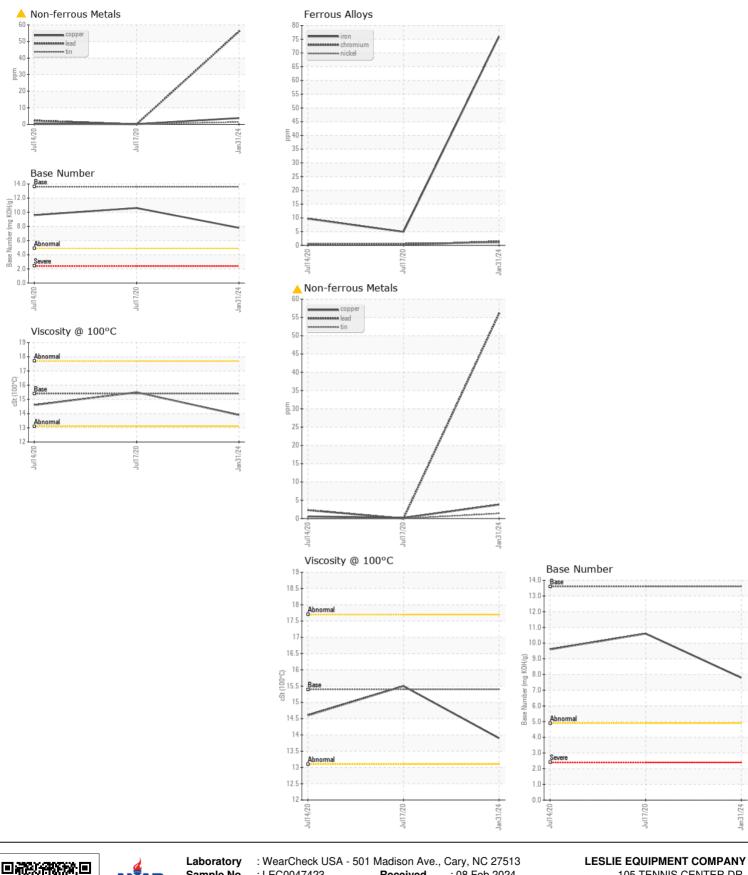
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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		LEC0047423	LEC0011409	LEC0011522
	Sample Date		Client Info		31 Jan 2024	17 Jul 2020	14 Jul 2020
	Machine Age	hrs	Client Info		4567	2201	2198
	Oil Age	hrs	Client Info		724	3	158
	Filter Age	hrs	Client Info		724	5	158
	Oil Changed		Client Info		Changed	Not Changd	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ABNORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>51	76	5	10
The lead level is abnormal. All other component wear rates are normal for time on oil.	Chromium	ppm	ASTM D5185m		1	<1	<1
	Nickel	ppm	ASTM D5185m		1	<1	<1
	Titanium	ppm	ASTM D5185m	20	<1	<1	<1
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		13	5	5
	Lead	ppm	ASTM D5185m		▲ 56	0	2
	Copper	ppm	ASTM D5185m		4	<1	<1
	Tin	ppm	ASTM D5185m		-	0	0
	Vanadium	ppm	ASTM D5185m	~1	<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
		····	, iouui				HONE
CONTAMINATION	Silicon	ppm	ASTM D5185m		13	9	6
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		4	<1	0
	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	1	0.1	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	13.7	5.9	8.7
	Sulfation	Abs/.1mm	*ASTM D7415		28.3	20.6	21.9
	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	3	3	2
	Boron	ppm	ASTM D5185m		65	365	230
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	ASTM D5185m		325	348	242
	Manganese	ppm	ASTM D5185m		1	<1	<1
	Magnesium	ppm	ASTM D5185m		1046	1233	827
	Calcium	ppm	ASTM D5185m		1801	1994	1366
	Phosphorus	ppm	ASTM D5185m		1107	1218	861
	Zinc	ppm	ASTM D5185m		1324	1350	946
	Sulfur	ppm	ASTM D5185m		4133	3496	2292
	Oxidation	Abs/.1mm	*ASTM D7414	>25	23.7	15.5	17.2
	Base Number (BN)	mg KOH/g	ASTM D2896	13.6	7.8	10.6	9.6

13.9

15.5

Visc @ 100°C cSt ASTM D445 15.4

14.6



LESLIE EQUIPMENT COMPANY Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. Received 105 TENNIS CENTER DR. : LEC0047423 :08 Feb 2024 Lab Number : 06083311 Tested :08 Feb 2024 MARIETTA, OH Unique Number : 10870756 Diagnosed : 09 Feb 2024 - Don Baldridge US 45750-9765 Test Package : CONST (Additional Tests: TBN) Contact: LEANNE KENDALL Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. KendalLeanne@lec1.com \* - 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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