



WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

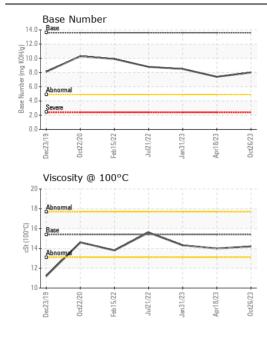
Store 8 - Pikeville

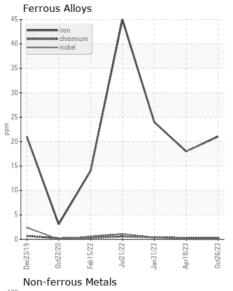
JOHN DEERE 850K 1T0850KXHKF347740

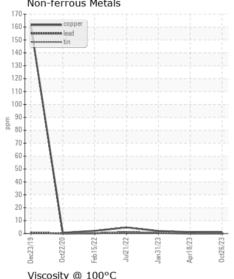
Component Diesel Engine

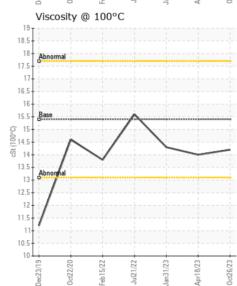
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (7 GAL)

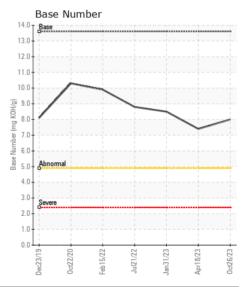
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (7 GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
TESSIMIETES/TISIT	Sample Number		Client Info		LEC0044448		LEC0038743
Resample at the next service interval to monitor.	Sample Date		Client Info		26 Oct 2023	18 Apr 2023	31 Jan 2023
	Machine Age	hrs	Client Info		3650	3067	2671
	Oil Age	hrs	Client Info		583	396	437
	Filter Age	hrs	Client Info		583	396	437
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	<u></u>	21	18	24
WEAT	Chromium	ppm	ASTM D5185m		<1	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	0	<1
	Titanium	ppm	ASTM D5185m	75	0	0	0
	Silver	ppm	ASTM D5185m	~3	0	0	0
	Aluminum	ppm	ASTM D5185m		5	3	4
	Lead	ppm	ASTM D5185m		0	0	<1
	Copper	ppm	ASTM D5185m		1	1	2
	Tin	ppm		>4	- <1	0	<1
	Vanadium	ppm	ASTM D5185m	7	<1	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
			v 150aa1			INOINE	TVOTVE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>!20	8	7	9
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	0	0	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	0.4	0.3	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	9.8	8.6	10.6
	Sulfation	Abs/.1mm	*ASTM D7415	>30	24.2	20.6	23.8
	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	<1	3	1
	Boron	ppm	ASTM D5185m		163	221	165
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		0	0	0
	Molybdenum	ppm	ASTM D5185m		265	250	245
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		873	838	813
	Calcium	ppm	ASTM D5185m		1641	1474	1515
	Phosphorus	ppm	ASTM D5185m		987	905	871
	Zinc	ppm	ASTM D5185m		1259	1122	1050
	Sulfur	ppm	ASTM D5185m		3150	3593	3397
	Oxidation	Abs/.1mm	*ASTM D7414	>25	19.2	16.3	18.7
	Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.0	7.4	8.5
	Visc @ 100°C	cSt	ASTM D445		14.2	14.0	14.3















Laboratory Sample No.

Lab Number : 05996586

Unique Number : 10724946

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : LEC0044448

Received **Tested** Diagnosed

: 02 Nov 2023 : 02 Nov 2023 - Wes Davis

: 02 Nov 2023

Test Package : CONST (Additional Tests: 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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