WEAR
CONTAMINATION
FLUID CONDITION

NORMAL SEVERE ABNORMAL

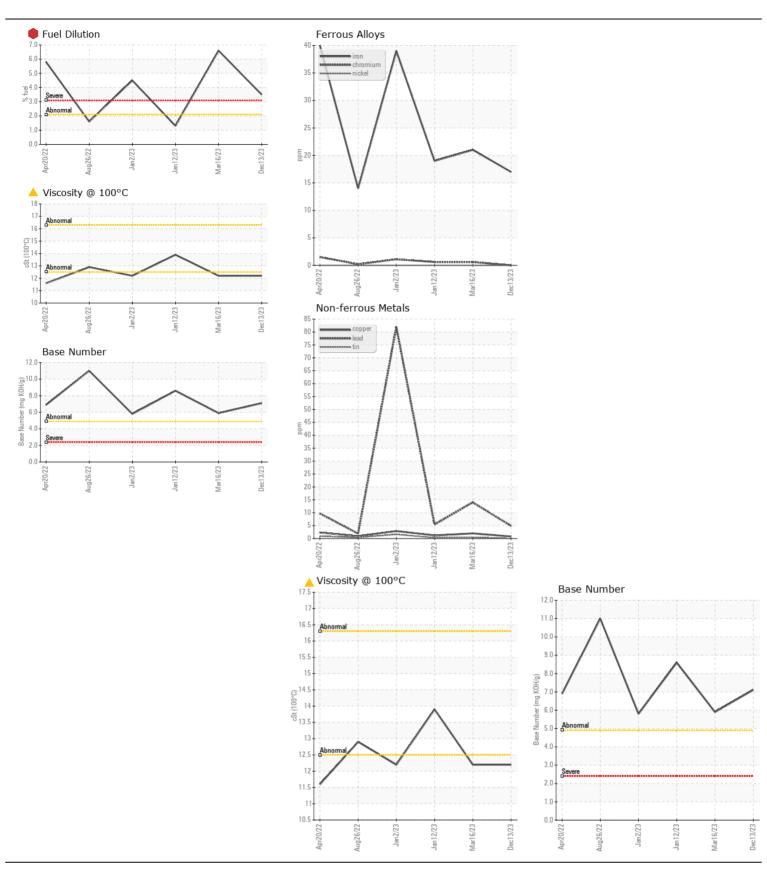


Ascendum Machinery/250 Hour CSA
Machine Id
JOHN DEERE 550K 1863 (S/N 308332)

Diesel Engine

VOLVO VDS-4.5 Premium Motor Oil 15W40 (5 GAL)

VOLVO VDS-4.5 Premium Motor Oil 15W40 (5 GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.	Sample Number	COM	Client Info	Ellille / toll	ASC0002531	VCP0005415	,
	Sample Date		Client Info		13 Dec 2023	16 Mar 2023	12 Jan 2023
	Machine Age	hrs	Client Info		7072	6484	6240
	Oil Age	hrs	Client Info		588	244	252
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				SEVERE	ABNORMAL	NORMAL
WEAR			40TH DE (05			0.4	4.0
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m		17	21	19
	Chromium	ppm	ASTM D5185m		0	<1	<1
	Nickel	ppm	ASTM D5185m	>5	0	0	0
	Titanium	ppm	ASTM D5185m	0	0	0	0
	Silver	ppm	ASTM D5185m		0	0 2	0
	Aluminum	ppm	ASTM D5185m		3	14	3
	Lead	ppm	ASTM D5185m ASTM D5185m		5 <1	2	5
	Copper Tin	ppm	ASTM D5185m		0	<1	<1
	Vanadium	ppm	ASTM D5185m	>4	0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
							NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	4	3	5
There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.	Potassium	ppm	ASTM D5185m	>20	<1	1	1
	Fuel	%	ASTM D3524	>2.1	3.5	△ 6.6	1.3
	Water		WC Method	>0.21	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.7	0.7	0.8
	Nitration	Abs/cm	*ASTM D7624	>20	12.5	11.8	9.6
	Sulfation	Abs/.1mm	*ASTM D7415		22.2	22.5	19.4
	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	0	<1
	Boron	ppm	ASTM D5185m		19	5	6
The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.	Barium	ppm	ASTM D5185m		0	0	1
	Molybdenum	ppm	ASTM D5185m		41	54	57
	Manganese	ppm	ASTM D5185m		0	<1	<1
	Magnesium	ppm	ASTM D5185m		443	716	824
	Calcium	ppm	ASTM D5185m		1488	1067	1153
	Phosphorus	ppm	ASTM D5185m		794	806	952
	Zinc	ppm	ASTM D5185m		1065	1057	1137
	Sulfur	ppm	ASTM D5185m		2630	2455	2880
	Oxidation	Abs/.1mm	*ASTM D7414	>25	23.6	21.9	16.6
	Base Number (BN)				7.1	5.9	8.6
	Visc @ 100°C	cSt	ASTM D445		12.2	<u> </u>	13.9







Certificate L2367

Laboratory Sample No. Lab Number

Unique Number

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : ASC0002531 : 06057662

: 10823611

Recieved : 11 Jan 2024 Diagnosed : 12 Jan 2024 Diagnostician : Wes Davis

Test Package: CONST (Additional Tests: PercentFuel, 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)

TRIANGLE GRADING AND PAVING INC

1521 Huffman Mill Rd BURLINGTON, NC

US 27216

Contact: ADAM CORBETT wacorbett@trianglegradingpaving.com

T: F: (336)584-0145