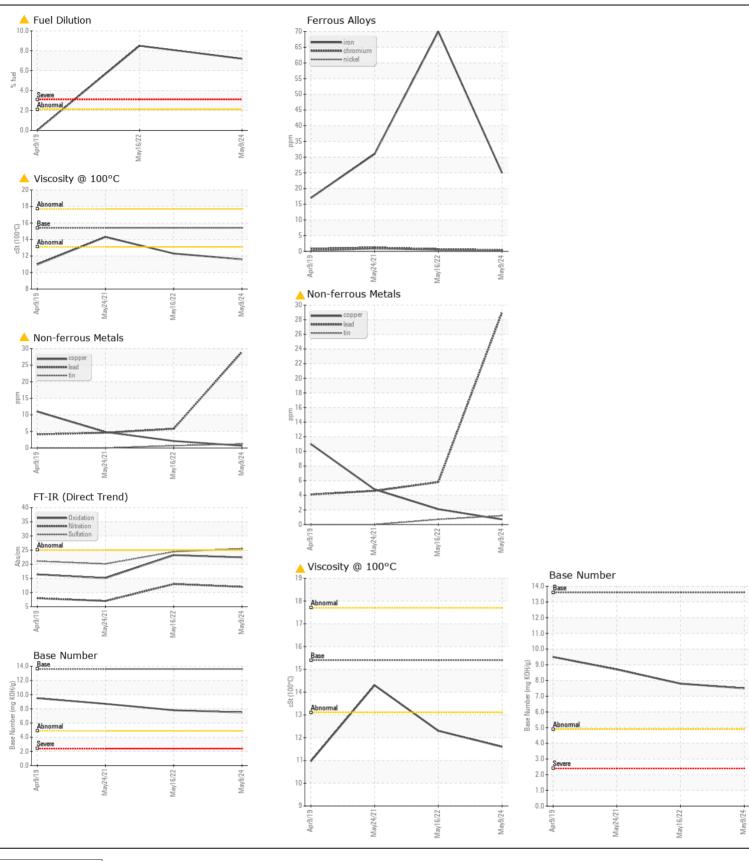
WEAR CONTAMINATION FLUID CONDITION **ABNORMAL ABNORMAL ABNORMAL**



Machine Id **JOHN DEERE 650K 1T0650KKPJF338939**

Diesel Engine

	Test	UOM	Method	Limit/Abn	Current	Hietonia	History
RECOMMENDATION We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.		UUIVI		LIIIII/ADN	JR0214387	History1 JR0126902	History2 JR006329
	Sample Number Sample Date		Client Info		09 May 2024		
	Machine Age	hrs	Client Info		2829	16 May 2022 2442	24 May 202 1470
	Oil Age		Client Info		387	0	0
	Filter Age	hrs hrs	Client Info		387	0	0
	Oil Changed	1115	Client Info				
	Filter Changed				Changed	Changed	Changed
	Sample Status		Client Info		Changed ABNORMAL	Changed SEVERE	Changed NORMAL
<u> </u>							
VEAR	Iron	ppm	ASTM D5185m	>51	25	1 70	31
	Chromium	ppm	ASTM D5185m	>11	<1	<1	1
The lead level is abnormal. All other component wear rates are normal.	Nickel	ppm	ASTM D5185m	>5	<1	<1	<1
	Titanium	ppm	ASTM D5185m		0	14	<1
	Silver	ppm	ASTM D5185m	>3	0	<1	<1
	Aluminum	ppm	ASTM D5185m	>31	6	3	5
	Lead	ppm	ASTM D5185m	>26	4 29	6	5
	Copper	ppm	ASTM D5185m	>26	<1	2	5
	Tin	ppm	ASTM D5185m	>4	1	<1	0
	Vanadium	ppm	ASTM D5185m		0	<1	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONT A MINIA TION	Silicon		ASTM D5185m	. 00		c	7
CONTAMINATION		ppm			8 2	6 40	7
There is a moderate amount of fuel present in the oil.	Potassium Fuel	ppm	ASTM D5185m			▲ 8.5	
		%	ASTM D3524		▲ 7.2		<1.0
	Water		WC Method WC Method	>0.21	NEG	NEG	NEG
	Glycol	0/		0	NEG	NEG 0.1	NEG
	Soot %	%	*ASTM D7844 *ASTM D7624		0.5 12.0	0.1 13.0	0.1
	Nitration	Abs/cm	*ASTM D7624	>20		24.4	7 20.1
	Sulfation Silt	Abs/.1mm	*Visual		25.5 NONE	NONE	NONE
	Debris	scalar		NONE	NONE	NONE	NONE
		scalar	*Visual				NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance Odor	scalar	*Visual *Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar scalar	*Visual	NORML >0.21	NORML NEG	NORML NEG	NORM NEG
<u></u>	Emuisineu water	Scalai	VISUAI	>0.21	NEG	INEG	NEG
LUID CONDITION	Sodium	ppm	ASTM D5185m	>31	2	28	2
	Boron	ppm	ASTM D5185m		122	65	141
Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		226	42	206
	Manganese	ppm	ASTM D5185m		<1	1	<1
	Magnesium	ppm	ASTM D5185m		737	742	690
	Calcium	ppm	ASTM D5185m		1397	1802	1693
	Phosphorus	ppm	ASTM D5185m		794	837	907
	Zinc	ppm	ASTM D5185m		942	970	1156
	Sulfur	ppm	ASTM D5185m		3240	2966	2843
	Oxidation	Abs/.1mm	*ASTM D7414	>25	22.4	23.2	15.1
	Base Number (BN)				7.5	7.8	8.7
	Visc @ 100°C	cSt	ASTM D445		<u>▲</u> 11.6	<u></u> 12.3	14.3







Laboratory Sample No. Unique Number : 11021298

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06175245

: JR0214387

Received **Tested**

: 16 May 2024 Diagnosed

: 16 May 2024 - Jonathan Hester

: 10 May 2024

JRE - MANASSAS PARK 9107 OWENS DRIVE MANASSAS PARK, VA US 20111

Contact: DON VEST dvest@jamesriverequipment.com T: (703)631-8500

Test Package : CONST (Additional Tests: PercentFuel, TBN) Certificate L2367 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)

F: (703)631-4715