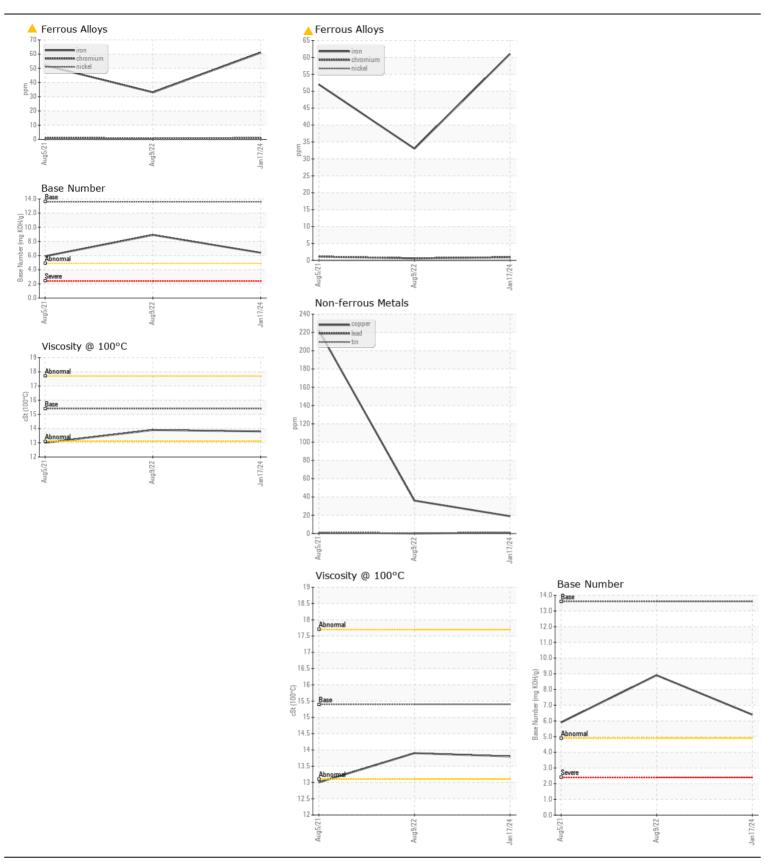
WEAR CONTAMINATION FLUID CONDITION **ABNORMAL NORMAL NORMAL**

JOHN DEERE 331G 1T0331GKJKF358149

DECOMMENDATION	Toot	LIONA	Mothad	Limit/Aba	Cuppont	Liotom 1	Hiotom O
RECOMMENDATION	Test Sample Number	UOM	Method Client Info	Limit/Abn	Current JR0199204	History1 JR0139973	History2 JR0095313
Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Date		Client Info		17 Jan 2024	09 Aug 2022	05 Aug 2021
	Machine Age	hrs	Client Info		2035	1353	846
	Oil Age	hrs	Client Info		682	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed	1110	Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ABNORMAL	ABNORMAL	Ü
A/F A D							
WEAR	Iron	ppm	ASTM D5185m		<u>^</u> 61	33	52
Cylinder, crank, or cam shaft wear is indicated.	Chromium	ppm	ASTM D5185m		<1	<1	1
	Nickel	ppm	ASTM D5185m	>5	0	0	0
	Titanium	ppm	ASTM D5185m	0	<1	<1	<1
	Silver	ppm	ASTM D5185m		0	<1	<1
	Aluminum	ppm	ASTM D5185m		11	6	2
	Lead	ppm	ASTM D5185m ASTM D5185m		<1 19	<1 <u> 36</u>	1 222
	Copper Tin	ppm	ASTM D5185m		19 <1	<1	<1
	Vanadium	ppm	ASTM D5185m	24	<1 <1	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m		21	17	<u>^</u> 36
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		3	0	2
	Fuel		WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.21	NEG	NEG	NEG
	Glycol	0/	WC Method	0	NEG	NEG	NEG
	Soot %	% Abolom	*ASTM D7844		0.7	0.4	0.4
	Nitration	Abs/cm	*ASTM D7624 *ASTM D7415	>20	11.9	12.0 28.0	12.2
	Sulfation Silt	Abs/.1mm scalar	*Visual	>30 NONE	31.0 NONE	NONE	29.7 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			>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	2	3	9
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185m		74	173	67
	Barium	ppm	ASTM D5185m		<1	<1	2
	Molybdenum	ppm	ASTM D5185m		268	253	240
	Manganese	ppm	ASTM D5185m		1	<1	2
	Magnesium	ppm	ASTM D5185m		803	774	591
	Calcium	ppm	ASTM D5185m		1701	1624	2158
	Phosphorus	ppm	ASTM D5185m ASTM D5185m		992	871	998 1224
	Zinc Sulfur	ppm	ASTM D5185m		1229	1113 2697	2577
	Oxidation	ppm Abe/ 1mm	*ASTM D5185m	-25	2870 30.2		
	Base Number (BN)	Abs/.1mm			30.2 6.4	24.5 8.9	28.5 5.9
							11.71







Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0199204 : 06064975 : 10836357

Recieved Diagnosed

: 22 Jan 2024 Diagnostician : Sean Felton

: 18 Jan 2024

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) JRE - MANASSAS PARK 9107 OWENS DRIVE MANASSAS PARK, VA

US 20111

Contact: DON VEST dvest@jamesriverequipment.com

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