WEAR CONTAMINATION FLUID CONDITION

ABNORMAL ABNORMAL NORMAL

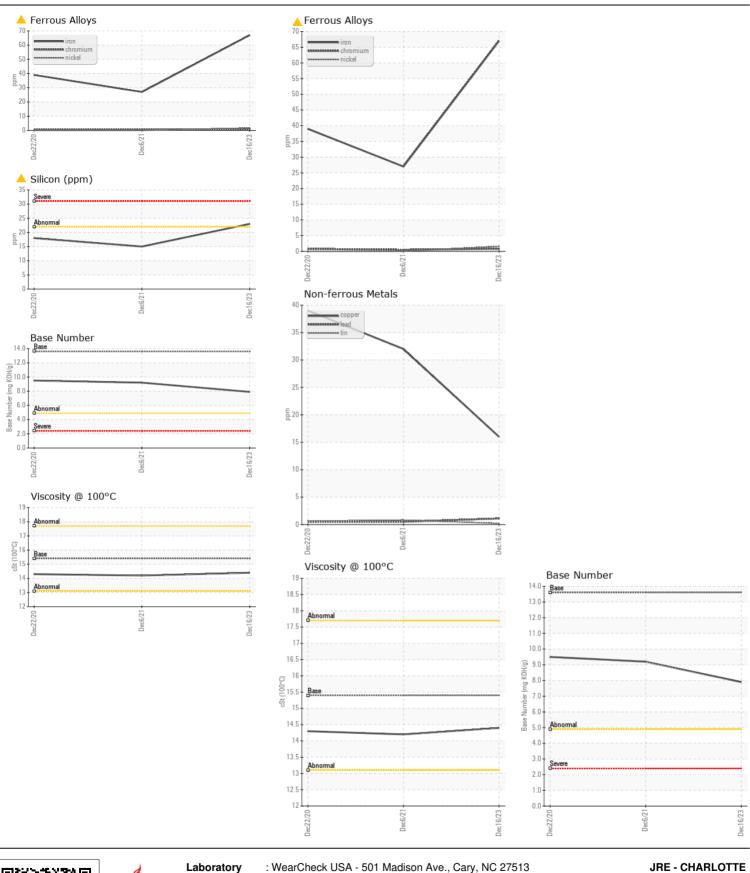
Machine Io

JOHN DEERE 331G 1T0331GKPFJ338317 (S/N 1T0331GKPJF338317)

Component

Diesel Fngine

DECOMMENDATION.					(_)		
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
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 Number		Client Info		JR0189358	JR0102287	JR0072190
	Sample Date	la con	Client Info		16 Dec 2023	06 Dec 2021	22 Dec 202
	Machine Age	hrs	Client Info		2073	1422	1173
	Oil Age	hrs	Client Info		651	422	0
	Filter Age	hrs	Client Info		Ohammad	422	
	Oil Changed Filter Changed		Client Info		Changed Changed	Changed	Changed
	Sample Status		Client into		ABNORMAL	Changed ABNORMAL	Changed ABNORMA
<u> </u>							
WEAR	Iron	ppm	ASTM D5185m	>51	4 67	27	39
	Chromium	ppm	ASTM D5185m	>11	<1	<1	<1
Cylinder, crank, or cam shaft wear is indicated.	Nickel	ppm	ASTM D5185m	>5	2	0	0
	Titanium	ppm	ASTM D5185m		<1	<1	<1
	Silver	ppm	ASTM D5185m	>3	<1	<1	<1
	Aluminum	ppm	ASTM D5185m	>31	9	3	1
	Lead	ppm	ASTM D5185m	>26	1	<1	<1
	Copper	ppm	ASTM D5185m	>26	16	<u></u> 4 32	△ 39
	Tin	ppm	ASTM D5185m	>4	<1	<1	<1
	Vanadium	ppm	ASTM D5185m		<1	<1	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	nnm	ASTM D5185m	-22	<u> </u>	15	18
CONTAMINATION	Potassium	ppm	ASTM D5185m		1	<1	2
Elemental level of silicon (Si) above normal.	Fuel	ррпп	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	, 0.2.	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	1	0.3	0.3
	Nitration	Abs/cm		>20	13.2	10	6.8
	Sulfation	Abs/.1mm	*ASTM D7415	>30	29.2	24	20.3
	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	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	NEG
ELUID CONDITION	C- di		ACTM DE105	04	4	0	4
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	1	2	4
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron Barium	ppm	ASTM D5185m ASTM D5185m		38 0	165 0	107
	Molybdenum	ppm	ASTM D5185m		213	239	278
	Manganese	ppm	ASTM D5185m		1	<1	<1
	Magnesium	ppm	ASTM D5185m		832	821	877
	Calcium	ppm	ASTM D5185m		1625	1636	1526
	Phosphorus	ppm	ASTM D5185m		1023	955	935
	Zinc	ppm	ASTM D5185m		1313	1100	1120
	Sulfur	ppm	ASTM D5185m		3198	2651	2358
	Oxidation	Abs/.1mm	*ASTM D7414	>25	26.4	19.2	14.1
	Base Number (BN)				7.9	9.2	9.5
	J (DIV)			15.4		J.=	0.0





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

: JR0189358 : 06059101

: 10830483

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

: 12 Jan 2024 Diagnosed Diagnostician : Don Baldridge

: 15 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)

Contact: CHARLOTTE SHOP myoung@jamesriverequipment.com T: (704)597-0211

9550 STATESVILLE ROAD

CHARLOTTE, NC

F: (704)596-6198

US 28269