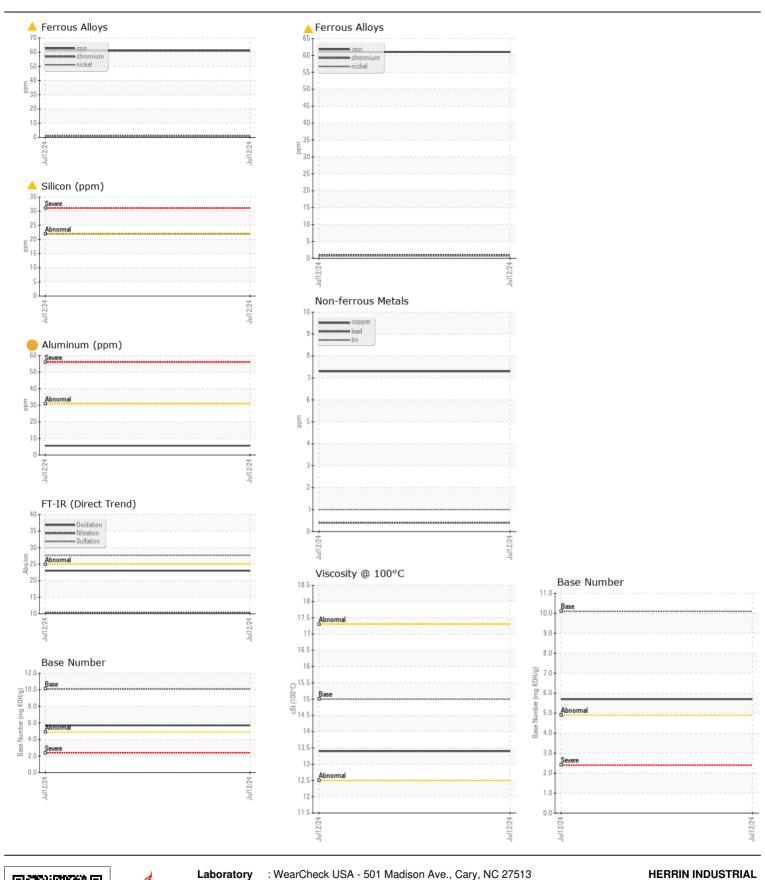
WEAR CONTAMINATION **FLUID CONDITION** **ABNORMAL ABNORMAL NORMAL**

Machine Id

JOHN DEERE 333G 1T0333GMTKF364641

Component Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Resample at the next service interval to monitor.	Sample Number	OOW	Client Info	LITTIOTOTT	JR0205793		
	Sample Date		Client Info		12 Jul 2024		
	Machine Age	hrs	Client Info		0		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed	1110	Client Info		N/A		
	Filter Changed		Client Info		N/A		
	Sample Status		Olichi illio		ABNORMAL		
WE A D	Iron	nnm	ASTM D5185m	. E1	61		
WEAR	Chromium	ppm	ASTM D5185m		1		
Cylinder, crank, or cam shaft wear is indicated.	Nickel	ppm	ASTM D5185m		- 1 <1		
	Titanium	ppm	ASTM D5185m	>0	<1		
	Silver	ppm		. 2	0		
	Aluminum	ppm	ASTM D5185m ASTM D5185m		6		
	Lead	ppm	ASTM D5185m		<1		
	Copper	ppm	ASTM D5185m		7		
	Tin	ppm	ASTM D5185m	>4	1		
	Vanadium		ASTM D5185m	>4	- 1 <1		
	White Metal	ppm scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
				TTOTTE			
CONTAMINATION Elemental levels of silicon (Si) and aluminum (Al) indicate aluminasilicate (coarse dirt) ingress.	Silicon	ppm	ASTM D5185m		<u>^</u> 22		
	Potassium	ppm	ASTM D5185m		3		
	Fuel		WC Method		<1.0		
	Water		WC Method	>0.21	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844		0.7		
	Nitration	Abs/cm	*ASTM D7624	>20	10.3		
	Sulfation	Abs/.1mm	*ASTM D7415		27.7		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.21	NEG		
FLUID CONDITION 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.	Sodium	ppm	ASTM D5185m	>31	<1		
	Boron	ppm	ASTM D5185m		71		
	Barium	ppm	ASTM D5185m		<1		
	Molybdenum	ppm	ASTM D5185m		102		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m		408		
	Calcium	ppm	ASTM D5185m		1545		
	Phosphorus	ppm	ASTM D5185m		1033		
	Zinc	ppm	ASTM D5185m		1308		
	Sulfur	ppm	ASTM D5185m		2890		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	23.0		
	Base Number (BN)	mg KOH/g	ASTM D2896	10.1	5.7		
	Visc @ 100°C	cSt	ASTM D445	15	13.4		







Certificate L2367

Laboratory Sample No.

Lab Number : 06239000 Unique Number : 11127834

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0205793

Tested Diagnosed Test Package : CONST (Additional Tests: TBN)

Received

: 18 Jul 2024

: 17 Jul 2024

: 19 Jul 2024 - Sean Felton

MT PLEASANT, NC US 28124 Contact: Service Manager herrinindustrialinc@yahoo.com

4701 HAHN-SCOTT RD

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.

T: (704)436-6313