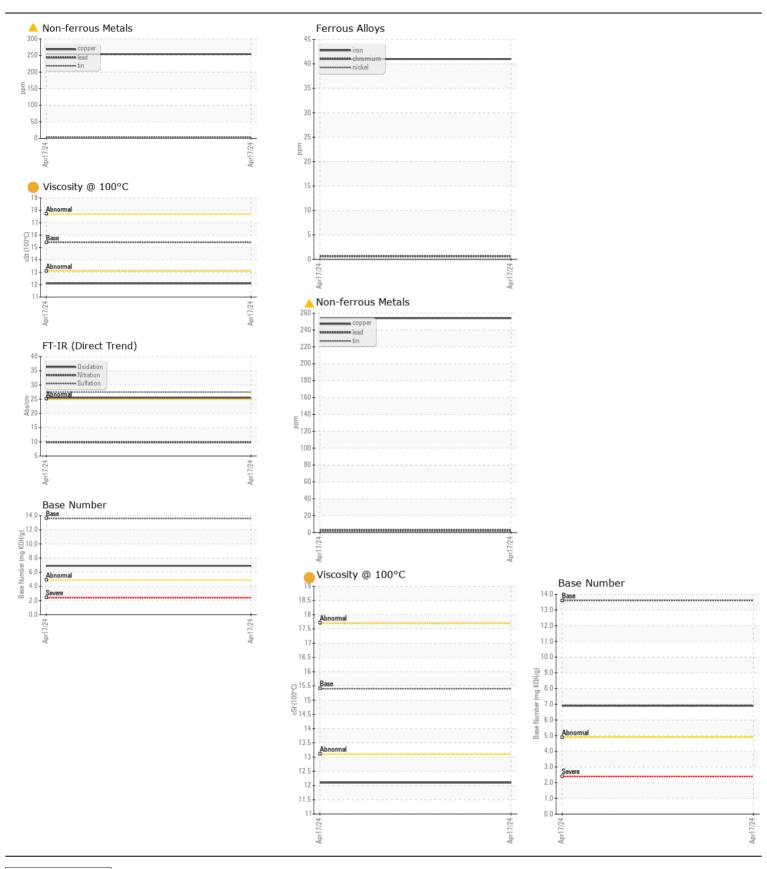
WEAR CONTAMINATION **FLUID CONDITION** **ABNORMAL** NORMAL **ATTENTION**

Machine Id

JOHN DEERE 333G 1T0333GMLPF450372

Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		JR0211491		
	Sample Date		Client Info		17 Apr 2024		
	Machine Age	hrs	Client Info		448		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				ABNORMAL		
VEAD			AOTA DE 40E		4.4		
WEAR	Iron	ppm	ASTM D5185m		41		
The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185m		<1		
	Nickel	ppm	ASTM D5185m	>5	0		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m		<1		
	Aluminum	ppm	ASTM D5185m		7		
	Lead	ppm	ASTM D5185m		3		
	Copper	ppm	ASTM D5185m		<u>^</u> 254		
	Tin	ppm	ASTM D5185m	>4	2		
	Vanadium	ppm	ASTM D5185m	NONE	<1 NONE		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	51		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	<1		
	Fuel	%	ASTM D3524	>2.1	<1.0		
	Water		WC Method	>0.21	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.3		
	Nitration	Abs/cm	*ASTM D7624	>20	9.8		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	27.5		
	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		
LUID CONDITION	Sodium	nnm	ASTM D5185m	\31	10		
LOID CONDITION	Boron	ppm	ASTM D5185m	<i>></i> 01	146		
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil.	Barium	ppm	ASTM D5185m		4		
	Molybdenum	ppm	ASTM D5185m		228		
	Manganese	ppm	ASTM D5185m		2		
	Magnesium	ppm	ASTM D5185m		751		
	Calcium	ppm	ASTM D5185m		1829		
	Phosphorus	ppm	ASTM D5185m		876		
	Zinc	ppm	ASTM D5185m		1066		
	Sulfur	ppm	ASTM D5185m		3415		
	Oxidation	Abs/.1mm	*ASTM D3163111	>25	25.4		
	Base Number (BN)				6.9		
	Visc @ 100°C	cSt	ASTM D2030		12.1	_	





Certificate L2367

Laboratory

Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0211491 Lab Number : 06154141

Unique Number: 10989564

Received **Tested** Diagnosed

: 19 Apr 2024 : 23 Apr 2024

: 23 Apr 2024 - Jonathan Hester Test Package : CONST (Additional Tests: FuelDilution, TBN)

JRE - ASHLAND 11047 LEADBETTER RD ASHLAND, VA US 23005

Contact: DAVID ZIEG dzieg@jamesriverequipment.com T: (804)798-6001

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: (804)798-0292

Contact/Location: DAVID ZIEG - JAMASH