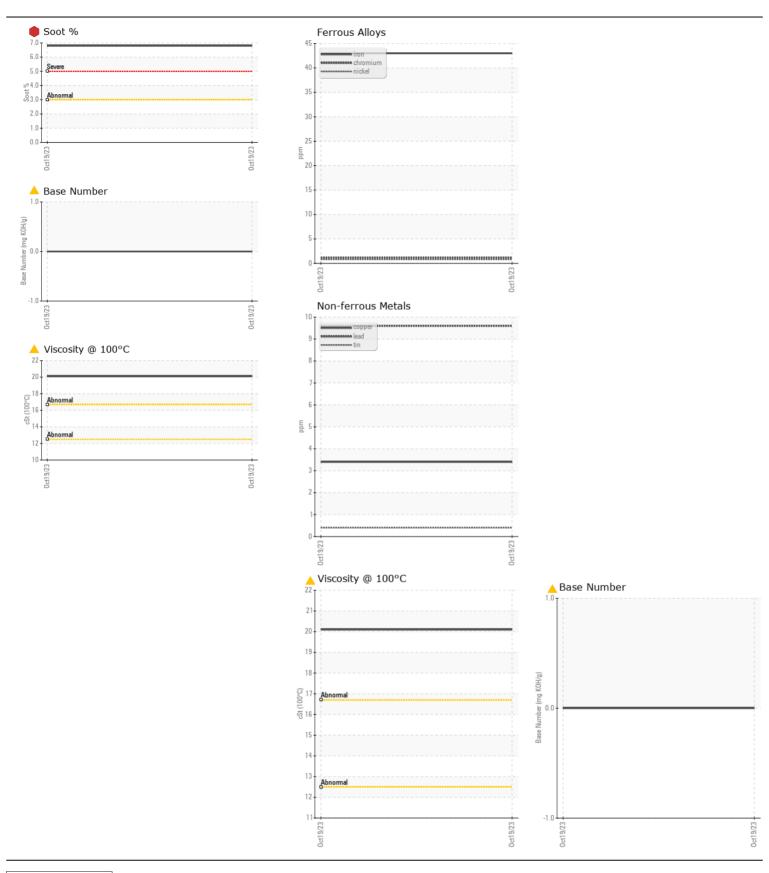
WEAR CONTAMINATION **FLUID CONDITION**

NORMAL SEVERE ABNORMAL

Machine Id

JOHN DEERE 410J 1T0410JXKCD216937

Component Diesel Engine) i						
{not provided} (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check for faulty combustion, plugged air filters, or aftercoolers. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. NOTE: High solids (carbon/soot) in the sample have limited the accuracy of Infra-Red data including Total Base Number (TBN) value.	Sample Number		Client Info		JR0181446		
	Sample Date		Client Info		19 Oct 2023		
	Machine Age	hrs	Client Info		7880		
	Oil Age	hrs	Client Info		7880		
	Filter Age	hrs	Client Info		0		
	Oil Changed	1110	Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status		Onert into		SEVERE		
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	>100	43		
	Chromium	ppm	ASTM D5185m		1		
	Nickel		ASTM D5185m		- <1		
	Titanium	ppm	ASTM D5185m	24	<1		
	Silver	ppm	ASTM D5185m	. 2	0		
	Aluminum	ppm	ASTM D5185m		4		
		ppm					
	Lead	ppm	ASTM D5185m		10 3		
	Copper Tin	ppm	ASTM D5185m ASTM D5185m				
		ppm		>15	<1		
	Vanadium	ppm	ASTM D5185m	NONE	<1 NONE		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	4		
CONTAININATION	Potassium	ppm	ASTM D5185m		3		
There is an abnormal amount of solids and carbon present in the oil.	Fuel	le le	WC Method		<1.0		
	Water		WC Method		NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	6.8		
	Nitration	Abs/cm	*ASTM D7624		29.5		
	Sulfation	Abs/.1mm	*ASTM D7415		50.9		
	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			>0.2	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2		
	Boron	ppm	ASTM D5185m		11		
The oil viscosity is higher than normal. The BN level is low.	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		50		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m		560		
	Calcium	ppm	ASTM D5185m		1746		
	Phosphorus	ppm	ASTM D5185m		979		
	Zinc	ppm	ASTM D5185m		1224		
	Sulfur	ppm	ASTM D5185m		3412		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	62.3		
	Base Number (BN)		ASTM D2896		<u> </u>		
	Visc @ 100°C	cSt	ASTM D445		<u>△</u> 20.1		







Laboratory Sample No. Unique Number : 10702668

Lab Number : 05985373

: JR0181446

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

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

: 20 Oct 2023 : 24 Oct 2023

: 24 Oct 2023 - Don Baldridge

JRE - GARNER 4161 AUBURN CHURCH RD

GARNER, NC US 27529

Contact: RALEIGH SHOP sean.betts@jamesriverequipment.com;catherine.anastasio@wearcheck.com

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)

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