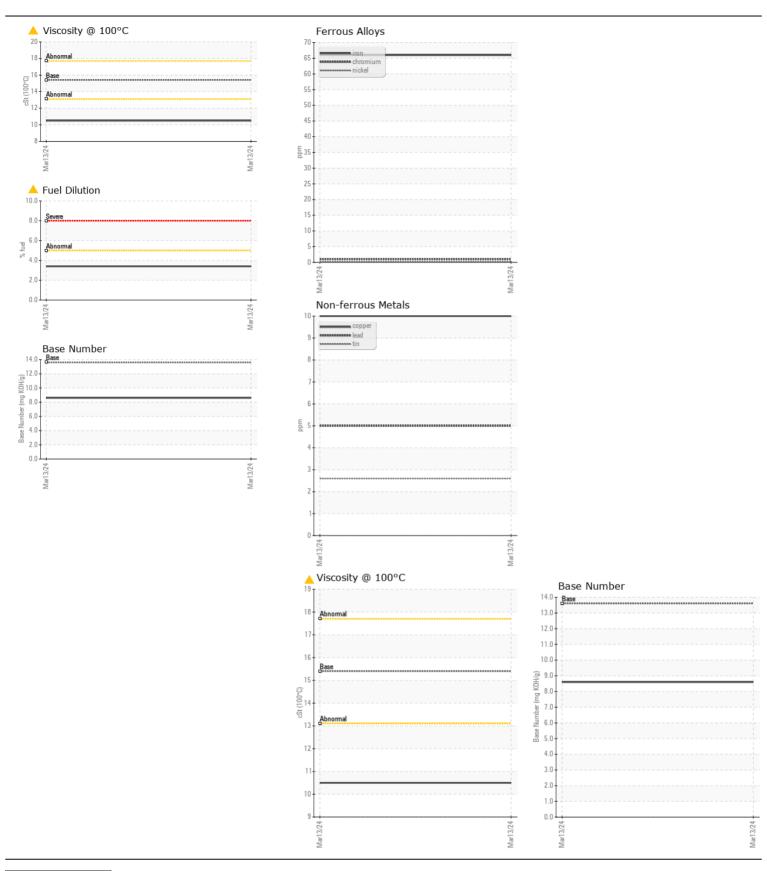
WEAR CONTAMINATION FLUID CONDITION

NORMAL MARGINAL ABNORMAL

JOHN DEERE 5045E 1PY5045EKNN120691

Component
Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		JR0205581		
	Sample Date		Client Info		13 Mar 2024		
	Machine Age	hrs	Client Info		500		
	Oil Age	hrs	Client Info		500		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				ABNORMAL		
/EAD	lua ia		ACTM DE10E	100			
VEAR	Iron	ppm	ASTM D5185m		66		
Metal levels are typical for a components first oil change.	Chromium	ppm	ASTM D5185m		1		
	Nickel	ppm		>4	<1		
	Titanium	ppm	ASTM D5185m	0	0		
	Silver Aluminum	ppm	ASTM D5185m ASTM D5185m		0		
		ppm			4		
	Lead Copper	ppm	ASTM D5185m ASTM D5185m		5 10		
	Tin	ppm	ASTM D5165III		3		
	Vanadium	ppm	ASTM D5185m	>10	0		
	White Metal	ppm scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
<u></u>			Visuai	NONL	·····		
ONTAMINATION	Silicon	ppm	ASTM D5185m	>25	14		
	Potassium	ppm	ASTM D5185m	>20	<1		
Light fuel dilution occurring.	Fuel	%	ASTM D3524	>5	▲ 3.4		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.3		
	Nitration	Abs/cm	*ASTM D7624	>20	11.5		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	23.2		
	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	>0.2	NEG		
LUID CONDITION	Sodium	ppm	ASTM D5185m		6		
LOID GONDING!	Boron	ppm	ASTM D5185m		192		
The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		4		
	Molybdenum	ppm	ASTM D5185m		234		
	Manganese	ppm	ASTM D5185m		4		
	Magnesium	ppm	ASTM D5185m		786		
	Calcium	ppm	ASTM D5185m		1350		
	Phosphorus	ppm	ASTM D5185m		807		
	Zinc	ppm	ASTM D5185m		938		
	Sulfur	ppm	ASTM D5185m		3527		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	22.6		
	Base Number (BN)				8.6		
	()	0 - 3		15.4	-		







Laboratory Sample No.

: JR0205581 Lab Number : 06122068 Unique Number: 10936219

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 19 Mar 2024 **Tested**

: 21 Mar 2024 Diagnosed Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, TBN)

: 21 Mar 2024 - Wes Davis

9550 STATESVILLE ROAD CHARLOTTE, NC US 28269 Contact: CHARLOTTE SHOP

JRE - CHARLOTTE

myoung@jamesriverequipment.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. T: (704)597-0211 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (704)596-6198