WEAR CONTAMINATION FLUID CONDITION

NORMAL SEVERE ABNORMAL

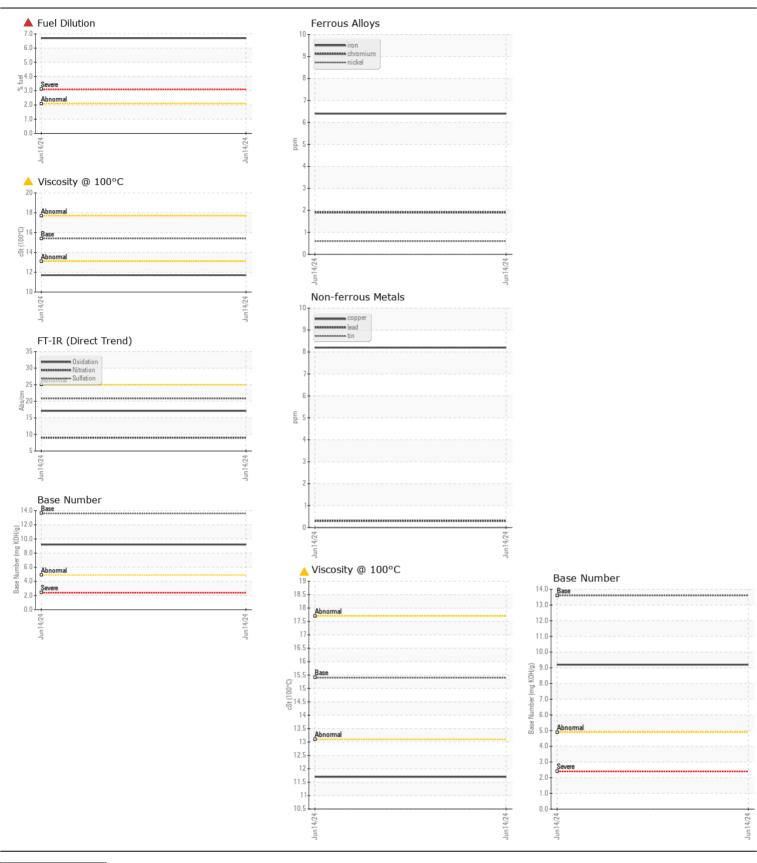
Machine Id

JOHN DEERE 4300 LV4300H33170

Component

Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		JR0215958		
We advise that you check the fuel injection system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.	Sample Date		Client Info		14 Jun 2024		
	Machine Age	hrs	Client Info		592		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		N/A		
	Filter Changed		Client Info		N/A		
	Sample Status				SEVERE		
VEAR	Iron	ppm	ASTM D5185m		6		
Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185m		2		
	Nickel	ppm	ASTM D5185m	>5	<1		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm		>3	0		
	Aluminum	ppm	ASTM D5185m	>31	6		
	Lead	ppm	ASTM D5185m	>26	<1		
	Copper	ppm	ASTM D5185m	>26	8		
	Tin	ppm	ASTM D5185m	>4	0		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
ONTAMINATION	0'1'		AOTA DE LOS		4.4		
CONTAMINATION	Silicon	ppm	ASTM D5185m		11		
There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.	Potassium	ppm	ASTM D5185m		3		
	Fuel	%	ASTM D3524	>2.1	▲ 6.7		
	Water		WC Method	>0.21	NEG		
	Glycol		WC Method	-	NEG		
	Soot %	%	*ASTM D7844		0.1		
	Nitration	Abs/cm	*ASTM D7624	>20	9.0		
	Sulfation	Abs/.1mm	*ASTM D7415		20.8		
	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	ppm	ASTM D5185m	>31	5		
LOID CONDITION	Boron	ppm	ASTM D5185m	701	224		
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 oil is no longer serviceable due to the presence of contaminants.	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		208		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m		700		
	Calcium	ppm	ASTM D5185m		1606		
	Phosphorus		ASTM D5185m		948		
	Zinc	ppm	ASTM D5185m		946 1108		
		ppm					
	Sulfur	ppm Abo/1mm	ASTM D5185m	. 25	3738		
	Oxidation Base Number (BN)	Abs/.1mm	*ASTM D7414 ASTM D2896		17.1 9.2		
		THE NEW YORK	A STIMITIZEDA	136	u)		





Laboratory Sample No. Unique Number : 11084292

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06211428

: JR0215958

Received **Tested**

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

: 17 Jun 2024 : 20 Jun 2024 : 20 Jun 2024 - Wes Davis 635 MOCKSVILLE HWY STATESVILLE, NC

US 28625 Contact: MIKE CRANFILL MCRANFILL@JAMESRIVEREQUIPMENT.COM

JRE - STATESVILLE

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)872-6411

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)