WEAR CONTAMINATION FLUID CONDITION

NORMAL SEVERE ABNORMAL

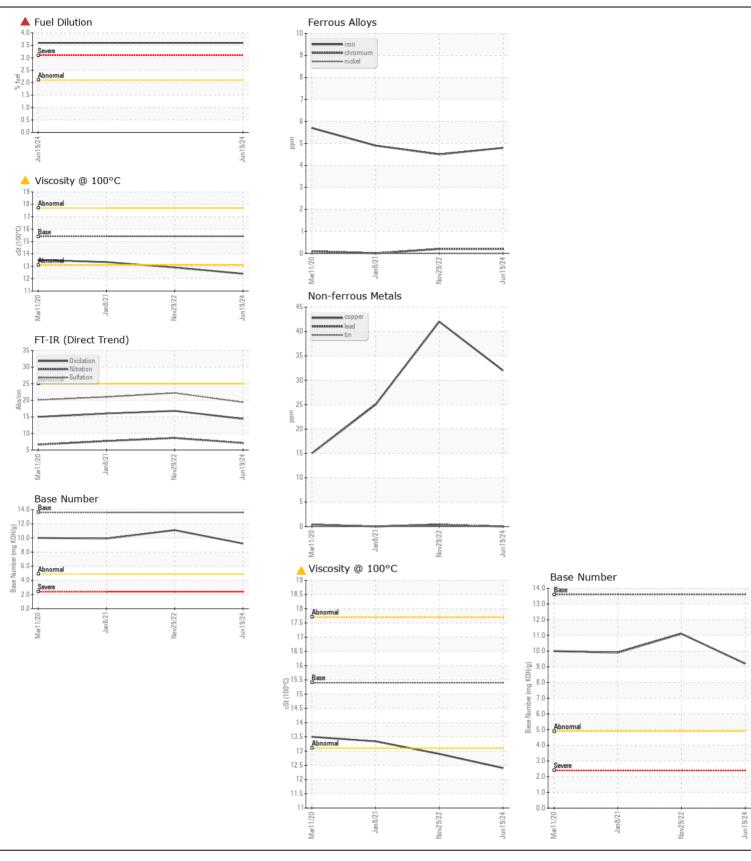
Machine Id

JOHN DEERE 4066M 1LV4066MVJJ101482

Component

Diesel Engine

ECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		JR0215952	JR0151573	JR0036974
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		19 Jun 2024	29 Nov 2022	08 Jan 202
	Machine Age	hrs	Client Info		447	398	212
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		N/A	Changed	N/A
	Filter Changed		Client Info		N/A	Changed	N/A
	Sample Status				SEVERE	NORMAL	NORMAL
/EAR	Iron	ppm	ASTM D5185m	>51	5	4	5
	Chromium	ppm	ASTM D5185m		<1	<1	0
Metal levels are typical for a new component breaking in.	Nickel	ppm	ASTM D5185m		0	0	0
	Titanium	ppm	ASTM D5185m		<1	0	<1
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		4	3	5
	Lead	ppm	ASTM D5185m		0	<1	0
	Copper	ppm	ASTM D5185m	>26	32	42	25
	Tin	ppm	ASTM D5185m	>4	0	<1	0
	Vanadium	ppm	ASTM D5185m		<1	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	MODE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	7	6	8
	Potassium	ppm	ASTM D5185m	>20	2	<1	0
There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.	Fuel	%	ASTM D3524	>2.1	▲ 3.6	<1.0	<1.0
	Water		WC Method	>0.21	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.1	0.1	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	7.1	8.6	7.7
	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.4	22.2	21
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	NEG
LUID CONDITION	Sodium	ppm	ASTM D5185m	>31	0	2	3
he BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		251	294	231
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	0	0
	Molybdenum	ppm	ASTM D5185m		239	247	217
	Manganese	ppm	ASTM D5185m		0	<1	<1
	Magnesium	ppm	ASTM D5185m		782	795	755
	Calcium	ppm	ASTM D5185m		1333	1447	1341
	Phosphorus	ppm	ASTM D5185m		873	867	819
	Zinc	ppm	ASTM D5185m		1066	1039	934
	Sulfur	ppm	ASTM D5185m	05	2864	3604	2463
	Lividation	Abs/.1mm	*ASTM D7414	>25	14.4	16.8	16
	Oxidation Base Number (BN)				9.2	11.1	9.9







Laboratory Sample No.

: JR0215952 Lab Number : 06216594

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

Received **Tested** Unique Number : 11089458 Diagnosed

: 25 Jun 2024

: 25 Jun 2024 - Wes Davis

: 21 Jun 2024

JRE - STATESVILLE 635 MOCKSVILLE HWY STATESVILLE, NC US 28625 Contact: MIKE CRANFILL

Test Package: CONST (Additional Tests: FuelDilution, PercentFuel, TBN) Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

MCRANFILL@JAMESRIVEREQUIPMENT.COM T: (704)872-6411

* - 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)