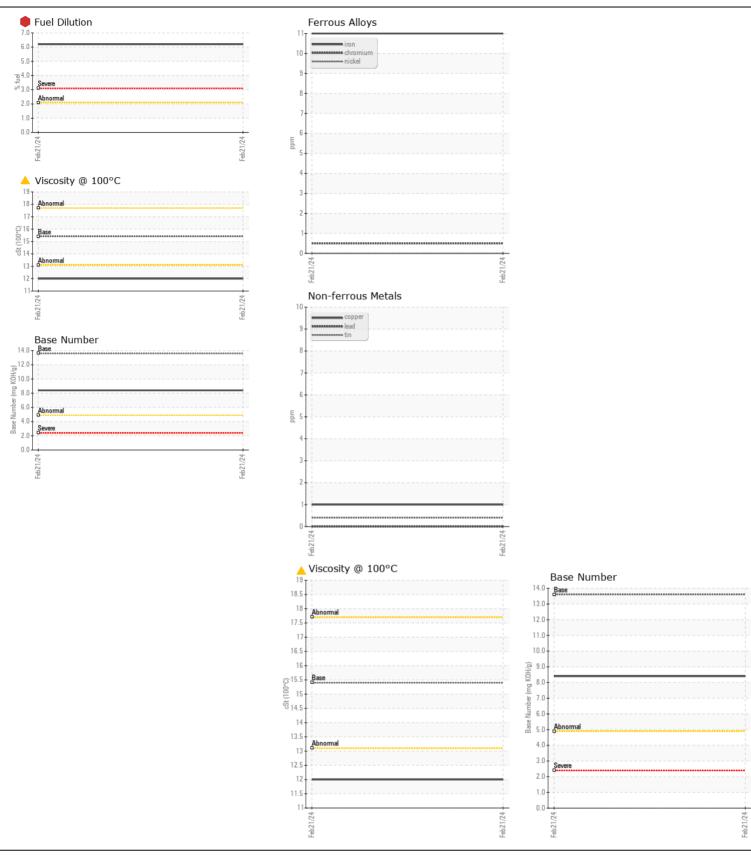
WEAR CONTAMINATION FLUID CONDITION

NORMAL SEVERE ABNORMAL

Machine Id

JOHN DEERE 4052M 31002943 (S/N 1LV4052MHFH210026)

Component Diesel Engine			,				
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (-	GAL)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
RECOMMENDATION	Sample Number	OOW	Client Info	LIIIIII/AUII	JR0183597		
We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.	Sample Date		Client Info		21 Feb 2024		
	Machine Age	hrs	Client Info		994		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed	1113	Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status		Olletti IIIIO		SEVERE		
WEAR	Iron	ppm	ASTM D5185m	>51	11		
Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185m	>11	<1		
	Nickel	ppm	ASTM D5185m	>5	0		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m	>3	0		
	Aluminum	ppm	ASTM D5185m	>31	2		
	Lead	ppm	ASTM D5185m	>26	0		
	Copper	ppm	ASTM D5185m	>26	1		
	Tin	ppm	ASTM D5185m	>4	<1		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION					_		
	Silicon	ppm	ASTM D5185m		6		
There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.	Potassium	ppm	ASTM D5185m		1		
	Fuel	%			6.2		
	Water		WC Method	>0.21	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844		0.2		
	Nitration	Abs/cm	*ASTM D7624	>20	8.9		
	Sulfation	Abs/.1mm	*ASTM D7415		18.2		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar		NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.21	NEG		
FLUID CONDITION	Sodium	nnm	ASTM D5185m	. 21	1		
FLUID CONDITION	Boron	ppm	ASTM D5185m	>01	4		
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		58		
	•	ppm	ASTM D5185m				
	Manganese	ppm	ASTM D5185m		<1 995		
	Magnesium Calcium	ppm	ASTM D5185m		1059		
	Phosphorus	ppm	ASTM D5185m		1009		
	Zinc	ppm	ASTM D5185m		1229		
	Sulfur	ppm	ASTM D5185m				
		ppm Abs/1mm		- 2E	3138		
	Oxidation	Abs/.1mm	*ASTM D7414		16.0		
	Base Number (BN)	mg KOH/g	ASTM D2896	13.0	8.4		
	Visc @ 100°C	cSt	ASTM D445	15 /	12.0		







Certificate L2367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0183597 Lab Number : 06098913

Unique Number : 10897143

Received **Tested**

: 23 Feb 2024 Diagnosed

: 27 Feb 2024 : 27 Feb 2024 - Wes Davis Test Package: CONST (Additional Tests: FuelDilution, PercentFuel, TBN)

JRE - HARRISONBURG 1332 GARBERS CHURCH RD HARRISONBURG, VA

US 22801 Contact: ETHAN SHEETS

To discuss this sample report, contact Customer Service at 1-800-237-1369.

ETHAN.SHEETS@JAMESRIVEREQUIPMENT.COM T:

* - 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: