WEAR CONTAMINATION FLUID CONDITION

NORMAL SEVERE SEVERE

Machine Ic

JOHN DEERE 4044M 1LV4044MCJJ104999

IOHN DEERE ENGINE OIL PLUS 50 II 15W40 (
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number	00	Client Info	21111071011	JR0137431		
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		12 Jan 2024		
	Machine Age	hrs	Client Info		263		
	Oil Age	hrs	Client Info		263		
	Filter Age	hrs	Client Info		263		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				SEVERE		
WEAR	Iron	ppm	ASTM D5185m	\51	27		
WLAN-	Chromium	ppm	ASTM D5185m		<1		
Metal levels are typical for a components first oil change.	Nickel	ppm	ASTM D5185m		0		
	Titanium	ppm	ASTM D5185m	75	<1		
	Silver	ppm	ASTM D5185m	>3	0		
	Aluminum	ppm	ASTM D5185m		7		
	Lead	ppm	ASTM D5105m		4		
	Copper	ppm	ASTM D5185m		24		
	Tin	ppm	ASTM D5185m	>4	2		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	56		
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	%	ASTM D3524		4.8		
	Water		WC Method	>0.21	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844		0.2		
	Nitration	Abs/cm	*ASTM D7624	>20	9.0		
	Sulfation	Abs/.1mm	*ASTM D7415		21.0		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor		*Visual	NORML	NORML		
	Emulsified Water	scalar	^Visual	>0.21	NEG		
LUID CONDITION	Sodium	ppm	ASTM D5185m	>31	11		
	Boron	ppm	ASTM D5185m		184		
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		<1		
	Molybdenum	ppm	ASTM D5185m		205		
	Manganese	ppm	ASTM D5185m		2		
	Magnesium	ppm	ASTM D5185m		608		
	Calcium	ppm	ASTM D5185m		1687		
	Phosphorus	ppm	ASTM D5185m		892		
	Zinc	ppm	ASTM D5185m		1002		
	Sulfur	ppm	ASTM D5185m		3320		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	17.4		
	Base Number (BN)	mg KOH/g	ASTM D2896		8.2		
		09		15.4			





Laboratory Sample No. **Unique Number**

Lab Number

: JR0137431 : 06060858 : 10832240

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 16 Jan 2024 Diagnosed

: 18 Jan 2024 Diagnostician : Wes Davis

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.

Test Package : MOBCE (Additional Tests: FuelDilution, PercentFuel, TBN)

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

JRE - WILKESBORO

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