WEAR CONTAMINATION FLUID CONDITION

NORMAL SEVERE SEVERE

Machine Id

JOHN DEERE 1023E 1LV1023ELJJ116284

Component Diesel Engine	04						
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (GAL)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
TEOOMINIENDATION	Sample Number	OOW	Client Info	LIIIIUAUII	JR0183680		
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 Number		Client Info		04 Jan 2024		
	Machine Age	hrs	Client Info		61		
	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		Ollerit iiilo		SEVERE		
WEAR	Iron	ppm	ASTM D5185m		15		
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		<1		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m	>31	3		
	Lead	ppm	ASTM D5185m	>26	<1		
	Copper	ppm	ASTM D5185m	>26	11		
	Tin	ppm	ASTM D5185m	>4	<1		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.	0:::		AOTM DE405		50		
	Silicon	ppm	ASTM D5185m		58		
	Potassium	ppm	ASTM D5185m		1		
	Fuel	%	ASTM D3524		3.3		
	Water		WC Method	>0.21	NEG		
	Glycol	21	WC Method	0	NEG		
	Soot %	%	*ASTM D7844		0.1		
	Nitration	Abs/cm	*ASTM D7624	>20	6.6		
	Sulfation	Abs/.1mm	*ASTM D7415		19.2		
	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	ppm	ASTM D5185m	\31	11		
I LOID CONDITION	Boron	ppm	ASTM D5185m	701	203		
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 D5105m		5		
	Molybdenum	ppm	ASTM D5185m		196		
	Manganese		ASTM D5185m		2		
	Magnesium	ppm	ASTM D5185m		586		
	Calcium	ppm	ASTM D5185m		1675		
	Phosphorus	ppm	ASTM D5185m		879		
	Zinc		ASTM D5185m		1020		
	Sulfur	ppm	ASTM D5185m		3360		
	Oxidation	Abs/.1mm	*ASTM D3163111	>25	15.0		
	Base Number (BN)				9.6		
	Visc @ 100°C	cSt	ASTM D2696 ASTM D445				
	VISC @ 100 C	COL	AUTIVI D440	10.4	10.3		







Laboratory Sample No. Lab Number Unique Number : 10822461

: JR0183680 : 06056512

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

Diagnosed

: 10 Jan 2024 : 12 Jan 2024 Diagnostician : Wes Davis

JRE - HARRISONBURG 1332 GARBERS CHURCH RD HARRISONBURG, VA US 22801

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

Contact: ETHAN SHEETS 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)

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