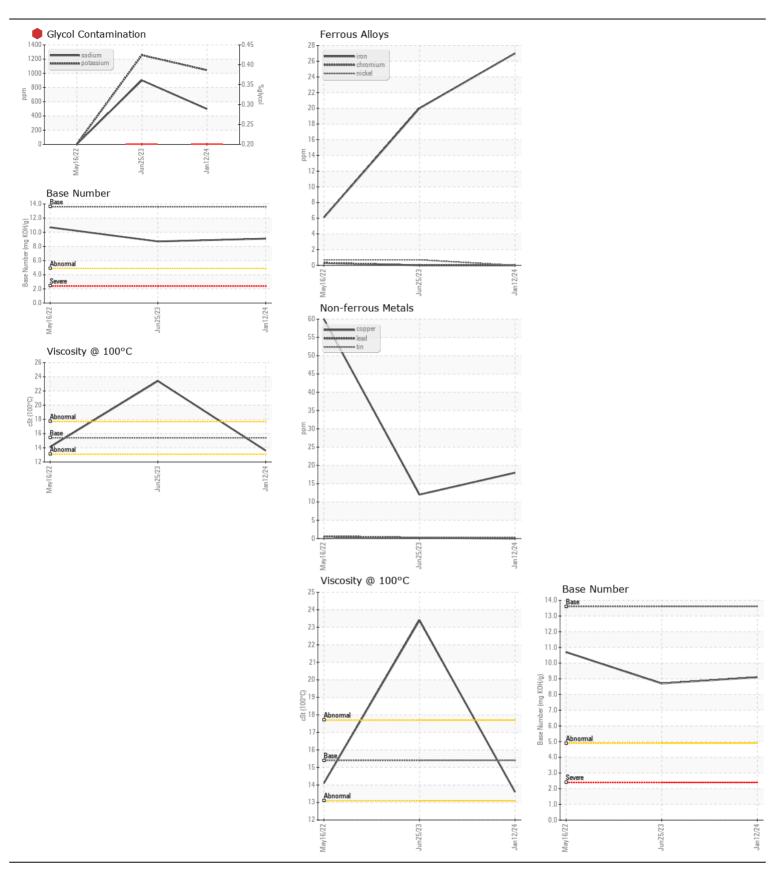
WEAR CONTAMINATION FLUID CONDITION

NORMAL SEVERE ATTENTION

JOHN DEERE CD150M 1GMBB1018ND075866

Diesel Engine							
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (-	QTS)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check for the source of the coolant leak. The oil change at the time of sampling has been noted. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition.	Sample Number		Client Info		JR0195827	JR0176375	JR0126577
	Sample Date		Client Info		12 Jan 2024	25 Jun 2023	16 May 2022
	Machine Age	hrs	Client Info		6096	5010	2319
	Oil Age	hrs	Client Info		1086	5010	0
	Filter Age	hrs	Client Info		0	5010	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				SEVERE	SEVERE	ABNORMAL
WEAR	Iron	ppm	ASTM D5185m	>51	27	20	6
	Chromium	ppm	ASTM D5185m	>11	0	0	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	<1	<1
	Titanium	ppm	ASTM D5185m		0	<1	0
	Silver	ppm	ASTM D5185m	>3	1	<1	<1
	Aluminum	ppm	ASTM D5185m	>31	4	2	2
	Lead	ppm	ASTM D5185m	>26	0	<1	<1
	Copper	ppm	ASTM D5185m	>26	18	12	6 0
	Tin	ppm	ASTM D5185m	>4	<1	<1	0
	Vanadium	ppm	ASTM D5185m		0	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	0.00		AOTA DE 40E		•		
CONTAMINATION	Silicon	ppm	ASTM D5185m		8	7	7
Test for glycol is positive. There is a high concentration of glycol present in the oil.	Potassium	ppm	ASTM D5185m		<u> </u>	<u>▲</u> 1256	2
	Fuel			>2.1	<1.0	<1.0	<1.0
	Water	0/	WC Method	>0.21	NEG	NEG	NEG
	Glycol	%	*ASTM D2982	. 0	0.20	0.20	NEG 0.1
	Soot % Nitration	% Abolom	*ASTM D7844 *ASTM D7624		0.1 9.9	0.9 8.3	0.1 6.9
	Sulfation	Abs/cm Abs/.1mm	*ASTM D7624	>20	9.9 22.1	20.7	22.4
	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	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water		*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	498	<u> </u>	2
Additive levels indicate the addition of a different brand, or time of all	Boron	ppm	ASTM D5185m		22	17	242
Additive levels indicate the addition of a different brand, or type of oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		187	85	203
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		422	78	765
	Calcium	ppm	ASTM D5185m		1317	1494	1402
	Phosphorus	ppm	ASTM D5185m		762	785	857
	Zinc	ppm	ASTM D5185m		956	927	1088
	Sulfur	ppm	ASTM D5185m		2995	3155	3016
	Oxidation	Abs/.1mm	*ASTM D7414		14.8	15.2	17.2
	Base Number (BN)				9.1	8.7	10.7
	Visc @ 100°C	cSt	ASTM D445	15.4	13.6	▲ 23.4	14.1







Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

: JR0195827 : 06060852 : 10832234

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 16 Jan 2024 Diagnosed : 17 Jan 2024

Diagnostician : Wes Davis Test Package : CONST (Additional Tests: TBN)

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.

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

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