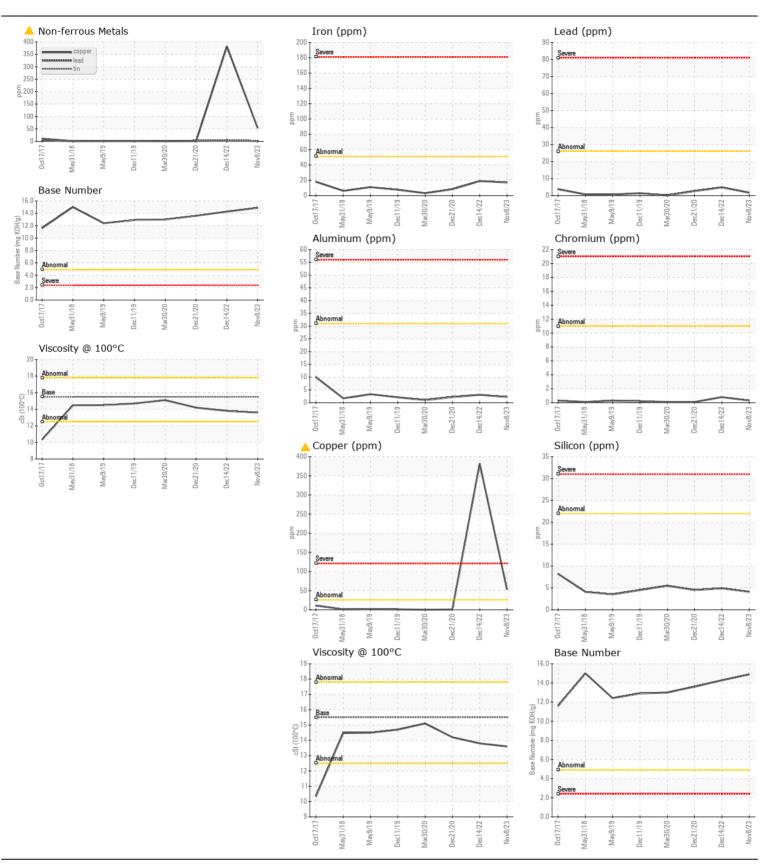
WEAR CONTAMINATION **FLUID CONDITION** **ABNORMAL NORMAL NORMAL**

Machine Id **JOHN DEERE 4130**

OIL ANALYSIS REPORT

Diesel Engine

(HC:C)MMHRIDATIC)N	Test	UOM	Method	Limit/Abn	Current	History1	History2
PECOMMENDATION Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number	OOW	Client Info	LIIII07 (OII	TR06062972	TR05719515	,
	Sample Date		Client Info		08 Nov 2023	14 Dec 2022	21 Dec 2020
	Machine Age	hrs	Client Info		2064	1516	972
	Oil Age	hrs	Client Info		548	544	148
	Filter Age	hrs	Client Info		548	544	148
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ABNORMAL	ABNORMAL	_
VE A B							
WEAR	Iron	ppm	ASTM D5185m		17	19	8
The copper level has decreased, but is still abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1	<1	<1
	Nickel	ppm	ASTM D5185m	>5	0	<1	<1
	Titanium	ppm	ASTM D5185m	0	0	<1	1
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		2	3	2
	Lead	ppm	ASTM D5185m		2	5	3
	Copper Tin	ppm	ASTM D5185m ASTM D5185m		▲ 53 <1	▲ 382 1	<1
	Vanadium	ppm	ASTM D5185m	>4	<1 <1		1
	White Metal	ppm	*Visual	NONE	NONE	<1 NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
<u></u>		Scalai	Visuai		NONE	INOINE	INOINL
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	4	5	4
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	<1	0	0
	Fuel		WC Method	>2.1	<1.0	<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	6.2	7.7	5.4
	Sulfation	Abs/.1mm	*ASTM D7415	>30	18.2	20.1	18.8
	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	2	4	4
	Boron	ppm	ASTM D5185m	701	0	2	1
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		3	<1	<1
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		7	24	18
	Calcium	ppm	ASTM D5185m		4989	5056	5075
	Phosphorus	ppm	ASTM D5185m		902	998	1058
	Zinc	ppm	ASTM D5185m		1187	1205	1226
	Sulfur	ppm	ASTM D5185m		4212	4944	4121
	Oxidation	Abs/.1mm	*ASTM D7414	>25	10.1	12.3	12
	Base Number (BN)				14.89	14.28	13.6
	Visc @ 100°C	cSt	ASTM D445		13.6	13.8	14.2





Certificate L2367

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

: TR06062972 : 06062972 : 10834354 Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 17 Jan 2024 Diagnosed : 18 Jan 2024

: Sean Felton Diagnostician

RANDALL COUNTY ROAD DEPT.

301 WEST HIGHWAY 60 CANYON, TX US 79015

Contact: MIKE LEWIS

To discuss this sample report, contact Customer Service at 1-800-827-0711.

* - 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)

T: F: