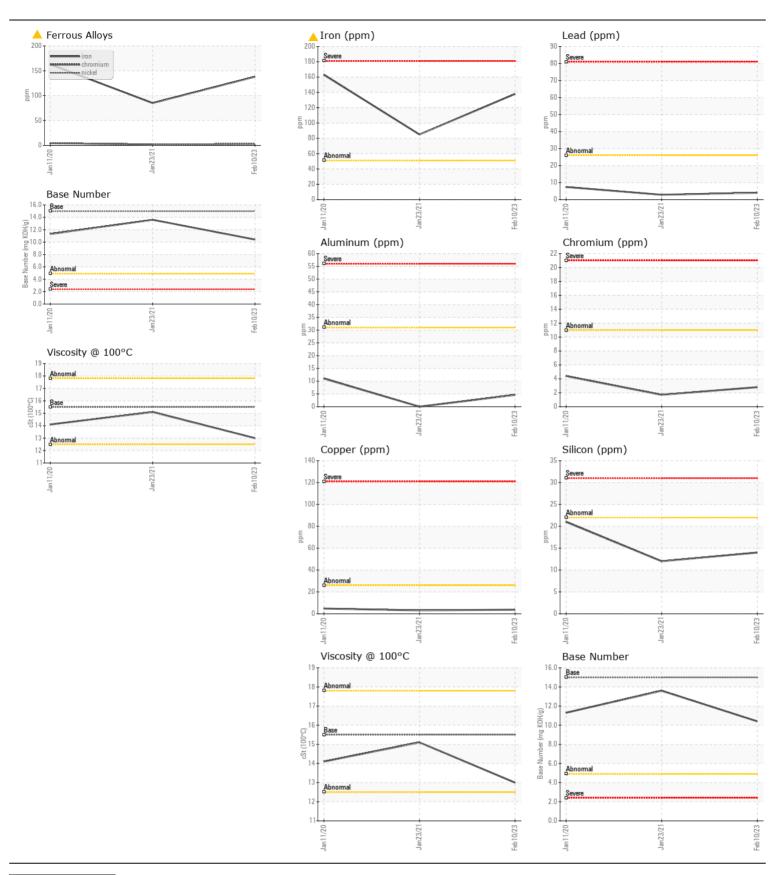
OIL ANALYSIS REPORT

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

JOHN DEERE 6400 CD4045T355261

Diesel Engine

TRC MOLY XL PROSPEC III 15W40 (12 LTR)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
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		Client Info		TR05773045		TR04890130
	Sample Date		Client Info		10 Feb 2023	23 Jan 2021	11 Jan 2020
	Machine Age	hrs	Client Info		10356	10140	9872
Service interval to monitor.	Oil Age	hrs	Client Info		484	268	878
	Filter Age	hrs	Client Info		484	268	878
	Oil Changed		Client Info		Not Changd	Changed	Not Changd
	Filter Changed		Client Info		Not Changd	Changed	Not Changd
	Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR	Iron	ppm	ASTM D5185m	>51	138	<u> </u>	<u></u> 163
Cylinder, crank, or cam shaft wear is indicated. All other component wear rates are normal.	Chromium	ppm	ASTM D5185m	>11	3	2	4
	Nickel	ppm	ASTM D5185m	>5	3	2	5
	Titanium	ppm	ASTM D5185m		<1	<1	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>31	5	0	11
	Lead	ppm	ASTM D5185m	>26	4	3	7
	Copper	ppm	ASTM D5185m	>26	4	3	5
	Tin	ppm	ASTM D5185m	>4	1	1	2
	Vanadium	ppm	ASTM D5185m		0	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	nnm	ASTM D5185m	> 22	14	12	21
CONTAMINATION	Potassium	ppm	ASTM D5185m		2	<1	2
There is no indication of any contamination in the oil.	Fuel	ppm	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	70.21	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	\3	1	0.8	1
	Nitration	Abs/cm	*ASTM D7624	>20	9.9	8.5	10.7
	Sulfation	Abs/.1mm	*ASTM D7415		22.9	22.2	24.4
	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	scalar	*Visual	>0.21	NEG	NEG	NEG
ELUID CONDITION			40TM DE40E				4
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	<1	<1	4
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		213	212	167
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		204	204	248
	Manganese	ppm	ASTM D5185m		1	1	2
	Magnesium	ppm	ASTM D5185m	4500	393	410	401
	Calcium	ppm	ASTM D5185m	4500	3775 796	3908	3916
	Phosphorus	ppm	ASTM D5185m	1400	786 957	829	938
	Zinc Sulfur	ppm	ASTM D5185m ASTM D5185m	1400	957	935 2990	3984
	Oxidation	ppm Abs/1mm	*ASTM D5185ffi	> 2F	3288		
	Base Number (BN)	Abs/.1mm			14.6	14.1	16.2
					10.41	13.6	11.3
	Visc @ 100°C	cSt	ASTM D445	15.5	13.0	15.1	14.1





Certificate L2367

Laboratory Sample No.

: TR05773045 Lab Number : 05773045 Unique Number : 10347662 Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 21 Feb 2023 : 22 Feb 2023 **Tested** : 22 Feb 2023 - Don Baldridge

Diagnosed

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)

STAN ISAAC 28624 JUNIPER RD

BRUNEAU, ID US 83604 Contact: CALVIN KOEHN

T:

F: