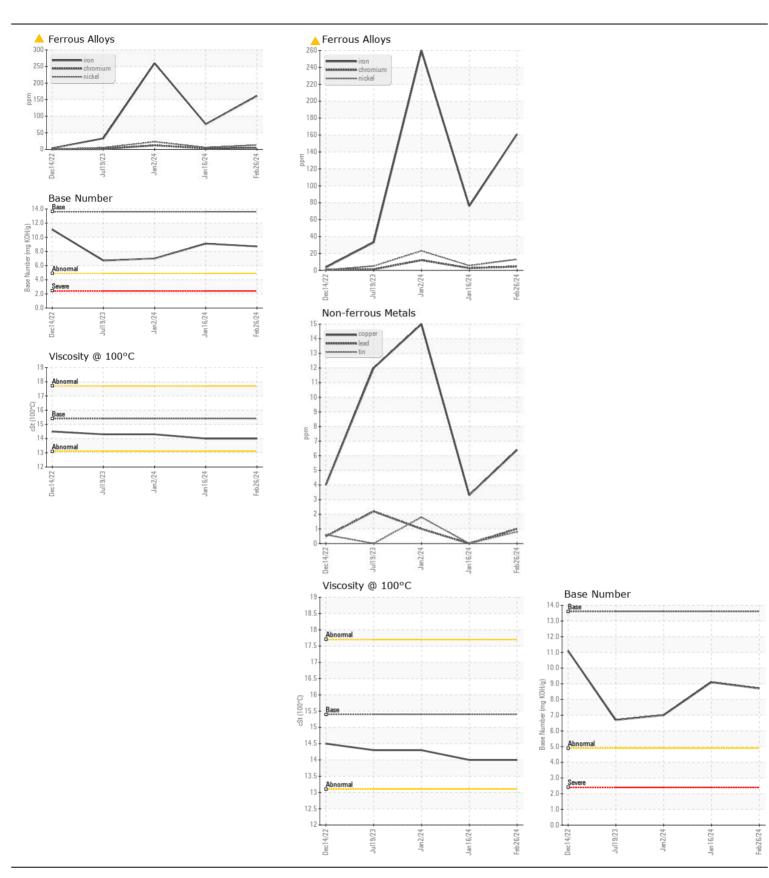
WEAR CONTAMINATION FLUID CONDITION **ABNORMAL NORMAL NORMAL**

JOHN DEERE 750L 1T0750LXCNF423174

Diesel Engine							
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (-	GAL)						
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. We recommend an early resample to monitor this condition.	Sample Number		Client Info		JR0202340	JR0122037	JR0186952
	Sample Date		Client Info		26 Feb 2024	16 Jan 2024	02 Jan 2024
	Machine Age	hrs	Client Info		3037	2871	2811
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	N/A	N/A
	Filter Changed		Client Info		Changed	N/A	N/A
	Sample Status				ABNORMAL	ABNORMAL	SEVERE
WEAR	Iron	ppm	ASTM D5185m	>51	<u> </u>	<u> </u>	260
	Chromium	ppm	ASTM D5185m	>11	4	3	<u>12</u>
Cylinder, crank, or cam shaft wear is indicated. Valve wear is indicated.	Nickel	ppm	ASTM D5185m	>5	1 3	6	2 3
	Titanium	ppm	ASTM D5185m		<1	<1	1
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>31	7	6	25
	Lead	ppm	ASTM D5185m	>26	1	0	1
	Copper	ppm	ASTM D5185m	>26	6	3	15
	Tin	ppm	ASTM D5185m	>4	<1	0	2
	Vanadium	ppm	ASTM D5185m		<1	<1	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	18	14	5 6
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	4	1	3
	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	0.2	0.1	0.6
	Nitration	Abs/cm	*ASTM D7624	>20	8.1	6.7	10.6
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.3	20.2	26.8
	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	NORMI
	Odor	scalar	*Visual	NORML	NORML	NORML	NORMI
	Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	2	<1	4
	Boron	ppm	ASTM D5185m		217	248	69
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		261	238	256
	Manganese	ppm	ASTM D5185m		2	<1	4
	Magnesium	ppm	ASTM D5185m		971	837	799
	Calcium	ppm	ASTM D5185m		1726	1440	1636
	Phosphorus	ppm	ASTM D5185m		957	891	973
	Zinc	ppm	ASTM D5185m		1343	1109	1189
	Sulfur	ppm	ASTM D5185m		3460	3067	2853
	Oxidation	Abs/.1mm	*ASTM D7414	>25	15.9	15.0	22.7
	Base Number (BN)	mg KOH/g	ASTM D2896		8.7	9.1	7.0
	, ,						





Laboratory Sample No. Unique Number : 10902397

: JR0202340 Lab Number : 06104167

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

Received **Tested** Diagnosed

: 29 Feb 2024 : 29 Feb 2024

: 02 Mar 2024 - Don Baldridge

JRE - GARNER 4161 AUBURN CHURCH RD GARNER, NC

US 27529

T: (919)614-2260

Contact: RALEIGH SHOP sean.betts@jamesriverequipment.com;catherine.anastasio@wearcheck.com

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) F: (919)779-5432