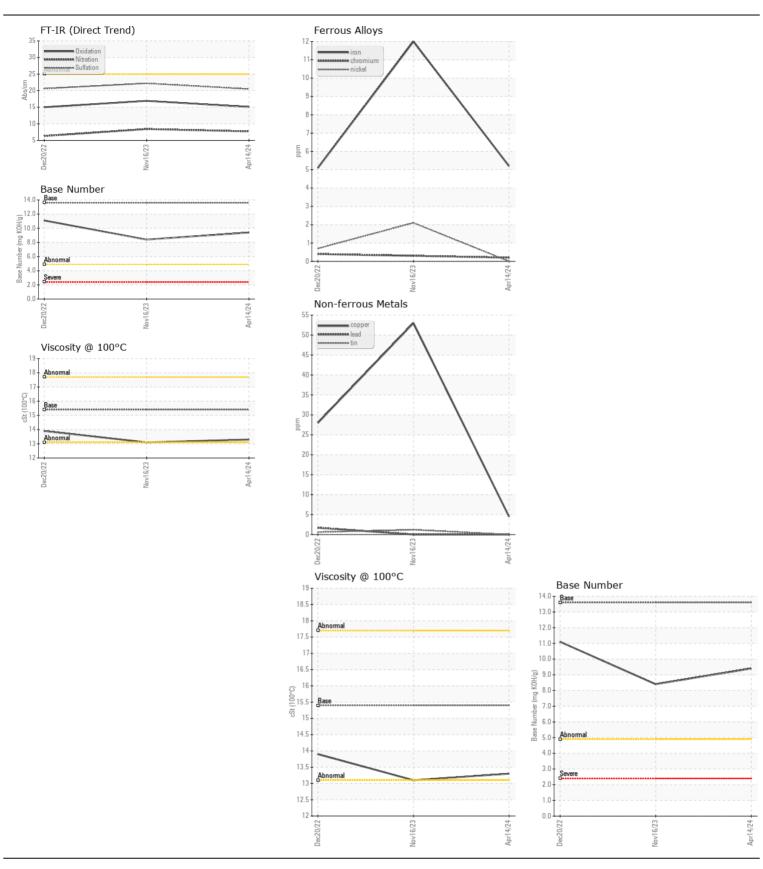
WEAR CONTAMINATION FLUID CONDITION **NORMAL NORMAL NORMAL**

Machine Id

JOHN DEERE 544 P 1DW544PACNLZ14328

Diesel Engine

DECOMMENDATION.					(_)	V	
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0209482	JR0191126	JR013632
	Sample Date		Client Info		14 Apr 2024	16 Nov 2023	20 Dec 202
	Machine Age	hrs	Client Info		1456	1107	509
	Oil Age	hrs	Client Info		349	598	509
	Filter Age	hrs	Client Info		0	598	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	ABNORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>51	5	12	5
MEAIT	Chromium	ppm	ASTM D5185m		<1	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	2	<1
	Titanium	ppm	ASTM D5185m		0	0	<1
	Silver	ppm	ASTM D5185m	>3	0	0	<1
	Aluminum	ppm	ASTM D5185m		4	4	2
	Lead	ppm	ASTM D5185m		0	0	2
	Copper	ppm	ASTM D5185m		4	<u>△</u> 53	28
	Tin	ppm	ASTM D5185m		0	1	<1
	Vanadium	ppm	ASTM D5185m		0	<1	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m		6	6	7
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		2	<1	3
	Fuel		WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.21	NEG	NEG	NEG
	Glycol	21	WC Method	0	NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.1	0.2	0.1
	Nitration	Abs/cm	*ASTM D7624		7.7	8.4	6.3
	Sulfation	Abs/.1mm	*ASTM D7415		20.5	22.2	20.6
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE NORML	NONE	NONE
	Appearance Odor	scalar	*Visual	NORML	-	NORML	NORM
		scalar	*Visual	NORML	NORML	NORML	NORM
<u></u>	Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	1	2	2
	Boron	ppm	ASTM D5185m		269	209	249
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		263	241	230
	Manganese	ppm	ASTM D5185m		0	1	<1
	Magnesium	ppm	ASTM D5185m		804	830	842
	Calcium	ppm	ASTM D5185m		1432	1421	1494
	Phosphorus	ppm	ASTM D5185m		1007	861	893
	Zinc	ppm	ASTM D5185m		1108	1071	1115
	Sulfur	ppm	ASTM D5185m		3130	2870	3627
	Oxidation	Abs/.1mm	*ASTM D7414	>25	15.1	16.9	15.0
	Base Number (BN)				9.4	8.4	11.1
		0					







Laboratory Sample No. Unique Number : 10981824

Lab Number : 06151746

: JR0209482

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

Tested Diagnosed

: 17 Apr 2024 : 18 Apr 2024 : 19 Apr 2024 - Sean Felton

JRE - GARNER 4161 AUBURN CHURCH RD

GARNER, NC US 27529

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

T: (919)614-2260 F: (919)779-5432

Test Package : CONST (Additional Tests: TBN) Certificate L2367 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)