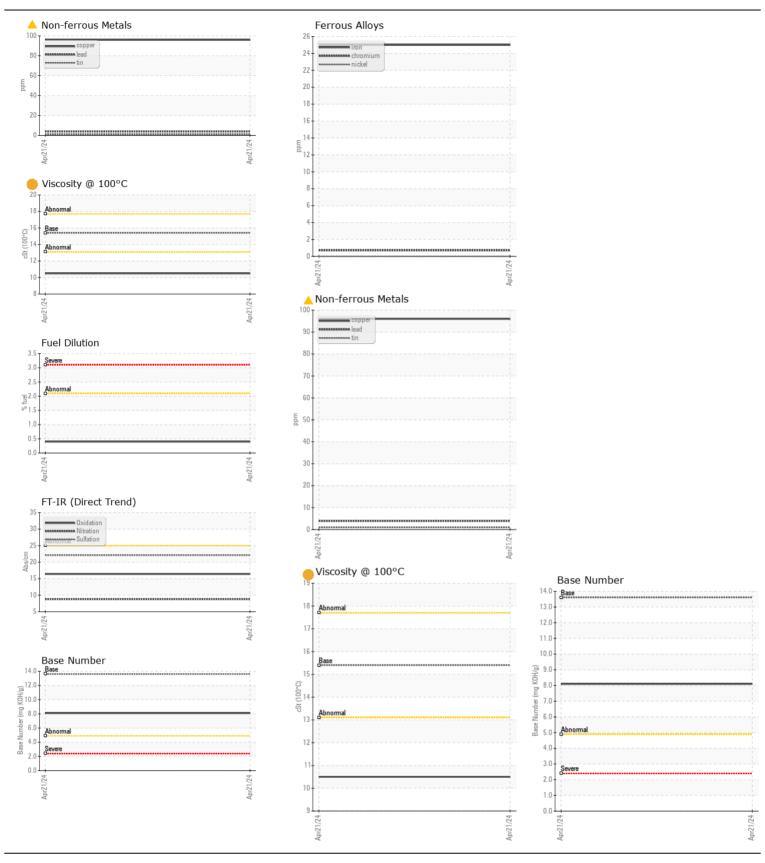
**WEAR** CONTAMINATION **FLUID CONDITION**  **ABNORMAL NORMAL ATTENTION** 

Machine Id

## **JOHN DEERE 550P 1T0550PAVPLX02157**

**Diesel Engine** 

SECOMMENDATION 1	Test	UOM	Method	Limit/Abn	Current	History1	History2
RECOMMENDATION  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	LIIIIUAUII	JR0209079		
	Sample Number		Client Info		21 Apr 2024		
	Machine Age	hrs	Client Info		493		
	Oil Age	hrs	Client Info		493		
	Filter Age	hrs	Client Info		0		
	Oil Changed	1110	Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status		Oliciti IIIIo		ABNORMAL		
WEAR  The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other metal levels are typical for a new component breaking in.	Iron	ppm	ASTM D5185m		25		
	Chromium	ppm	ASTM D5185m	>11	<1		
	Nickel	ppm	ASTM D5185m	>5	0		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m	>31	6		
	Lead	ppm	ASTM D5185m	>26	4		
	Copper	ppm	ASTM D5185m	>26	<u> </u>		
	Tin	ppm	ASTM D5185m	>4	<1		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Ciliaan		ACTM DE10Em	. 00	0		
	Silicon	ppm	ASTM D5185m		9		
Tests indicate that there is no fuel present in the oil. There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		3		
	Fuel	%	ASTM D3524		0.4		
	Water		WC Method	>0.21	NEG		
	Glycol	0/	WC Method	0	NEG		
	Soot %	%	*ASTM D7844		0.3		
	Nitration	Abs/cm	*ASTM D7624	>20	8.8		
	Sulfation	Abs/.1mm	*ASTM D7415		22.1		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.21	NEG		
LUID CONDITION	Sodium	ppm	ASTM D5185m	>31	6		
LOID CONDITION	Boron	ppm	ASTM D5185m	701	183		
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Barium	ppm	ASTM D5185m		6		
	Molybdenum	ppm	ASTM D5185m		237		
	Manganese		ASTM D5185m		4		
	Magnesium	ppm	ASTM D5185m		807		
	Calcium	ppm	ASTM D5185m		1341		
	Phosphorus	ppm	ASTM D5185m		885		
		ppm					
	Zinc	ppm	ASTM D5185m		1090		
	Sulfur	ppm Abo/1mm	ASTM D5185m	, OF	3384		
	Oxidation	Abs/.1mm	*ASTM D7414		16.4		
	Base Number (BN)	0 0	ASTM D2896		8.1		
	Visc @ 100°C	cSt	ASTM D445	15.4	10.5		





Unique Number: 10992849

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0209079 Lab Number : 06157426

Received **Tested** Diagnosed

: 23 Apr 2024 : 25 Apr 2024 : 25 Apr 2024 - Sean Felton

4161 AUBURN CHURCH RD GARNER, NC US 27529 Contact: RALEIGH SHOP

JRE - GARNER

Test Package : CONST ( Additional Tests: FuelDilution, PercentFuel, TBN ) To discuss this sample report, contact Customer Service at 1-800-237-1369.

sean.betts@jamesriverequipment.com;catherine.anastasio@wearcheck.com T: (919)614-2260

\* - 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