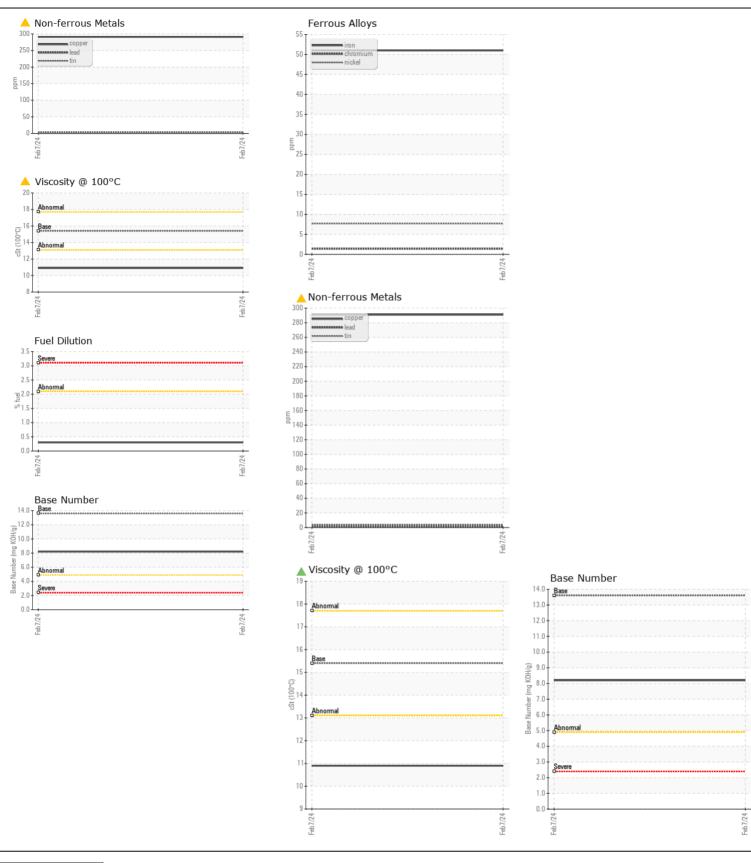
WEAR CONTAMINATION **FLUID CONDITION**

ABNORMAL NORMAL **ATTENTION**

JOHN DEERE 843L 1DW843LBKPL718587

Component
Diesel Engine

ECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		WE0006313		
	Sample Date		Client Info		07 Feb 2024		
	Machine Age	hrs	Client Info		631		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				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		51		
	Chromium	ppm	ASTM D5185m		1		
	Nickel	ppm	ASTM D5185m	>5	8		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m		4		
	Lead	ppm	ASTM D5185m		1		
	Copper	ppm	ASTM D5185m		<u>^</u> 291		
	Tin	ppm	ASTM D5185m	>4	4		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	\22	15		
ONTAMINATION	Potassium	ppm	ASTM D5185m		8		
Fuel content negligible. There is no indication of any contamination in the oil.	Fuel	%	ASTM D316311	>2.1	0.3		
	Water	70	WC Method		NEG		
	Glycol		WC Method	70.21	NEG		
	Soot %	%	*ASTM D7844	\3	0.8		
	Nitration	Abs/cm	*ASTM D7624	>20	9.9		
	Sulfation	Abs/.1mm	*ASTM D7415		24.9		
	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		*Visual	>0.21	NEG		
LUID CONDITION	Sodium	ppm	ASTM D5185m	>31	2		
he oil vicessity is lower than narmal. The DN recult indicates that	Boron	ppm	ASTM D5185m		133		
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		16		
	Molybdenum	ppm	ASTM D5185m		250		
	Manganese	ppm	ASTM D5185m		6		
	Magnesium	ppm	ASTM D5185m		769		
	Calcium	ppm	ASTM D5185m		1432		
	Phosphorus	ppm	ASTM D5185m		964		
	Zinc	ppm	ASTM D5185m		1060		
	Sulfur	ppm	ASTM D5185m		2920		
	Oxidation	Abs/.1mm	*ASTM D7414		19.4		
			ASTM D2896		8.2		







Certificate L2367

Laboratory Sample No.

: WE0006313 **Lab Number** : 06085710

Unique Number : 10873155

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 12 Feb 2024 : 14 Feb 2024 **Tested**

Diagnosed Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, TBN)

: 14 Feb 2024 - Jonathan Hester

WARRIOR TRACTOR AND EQUIPMENT - NORTHPORT P.O. BOX 412 NORTHPORT, AL

US 35476 Contact: CRAIG ANDOE serve01@warriortractor.com

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)

T: (205)339-0300