

WEAR CONTAMINATION **FLUID CONDITION**

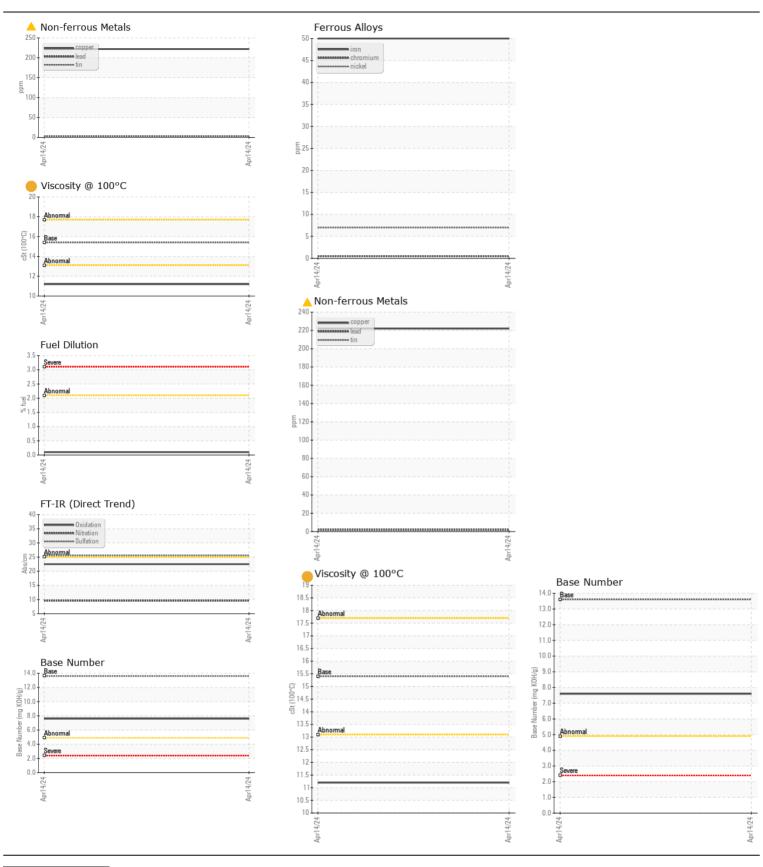
ABNORMAL NORMAL ATTENTION

[G14837]

JOHN DEERE 000885

Diesel Engine

	Test	UOM	Method	Limit/Abn	Current	History1	History2
PRECOMMENDATION 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	LIIIIU/ADII	WE0007240		1 113tO1 y Z
	Sample Date		Client Info		14 Apr 2024		
	Machine Age	hrs	Client Info		685		
	Oil Age	hrs	Client Info		685		
	Filter Age	hrs	Client Info		685		
	Oil Changed	1110	Client Info		N/A		
	Filter Changed		Client Info		N/A		
	Sample Status		Onoric 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	>51	50		
	Chromium	ppm	ASTM D5185m	>11	<1		
	Nickel	ppm	ASTM D5185m	>5	7		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m	>3	<1		
	Aluminum	ppm	ASTM D5185m	>31	7		
	Lead	ppm	ASTM D5185m	>26	2		
	Copper	ppm	ASTM D5185m	>26	^ 222		
	Tin	ppm	ASTM D5185m	>4	2		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
Fuel content negligible. There is no indication of any contamination in the oil.	Silicon	ppm	ASTM D5185m	>22	12		
	Potassium	ppm	ASTM D5185m	>20	7		
	Fuel	%	ASTM D3524		0.1		
	Water		WC Method	>0.21	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.3		
	Nitration	Abs/cm	*ASTM D7624	>20	9.6		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	25.6		
	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		
I LUD CONDITION							
LUID CONDITION	Sodium	ppm	ASTM D5185m	>31	6		
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Boron	ppm	ASTM D5185m		191		
	Barium	ppm	ASTM D5185m		2		
	Molybdenum	ppm	ASTM D5185m		231		
	Manganese	ppm	ASTM D5185m		2		
	Magnesium	ppm	ASTM D5185m		865		
	Calcium	ppm	ASTM D5185m		1578		
	Phosphorus	ppm	ASTM D5185m		937		
	Zinc	ppm	ASTM D5185m		1131		
	Sulfur	ppm	ASTM D5185m		3118		
	Oxidation	Abs/.1mm	*ASTM D7414		22.5		
	Base Number (BN)		ASTM D2896		7.6		
	Visc @ 100°C	cSt	ASTM D445	15.4	11.2		





Certificate L2367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WE0007240 Lab Number : 06149263

Unique Number : 10979341

Received : 15 Apr 2024 **Tested**

: 19 Apr 2024 Diagnosed

: 19 Apr 2024 - Don Baldridge Test Package: CONST (Additional Tests: FuelDilution, PercentFuel, TBN)

WARRIOR TRACTOR AND EQUIPMENT - GRAYSVILLE 4308 WATER TRAIL

GRAYSVILLE, AL US 35073 Contact: BEN BYRKET

bbyrket@warriortractor.com T: (205)675-9045

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)