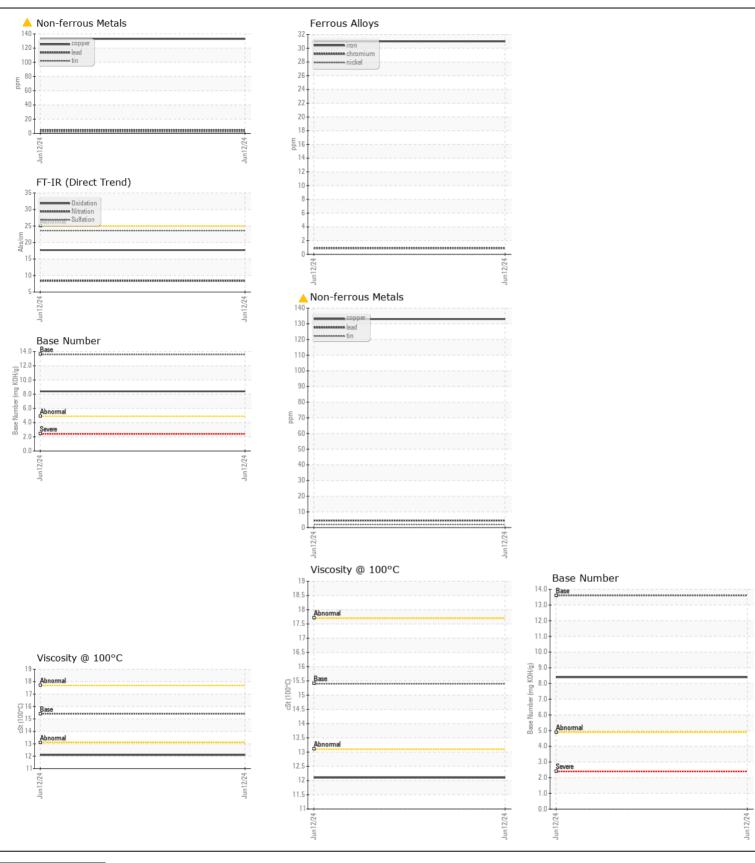
WEAR CONTAMINATION **FLUID CONDITION** **ABNORMAL NORMAL NORMAL**

Machine Id

JOHN DEERE 650P 1DW650PAEPLX03867

Diesel Engine

ECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		WE0007769		
	Sample Date		Client Info		12 Jun 2024		
	Machine Age	hrs	Client Info		432		
	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		
/EAR	Iron	ppm	ASTM D5185m	>51	31		
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.	Chromium	ppm	ASTM D5185m	>11	<1		
	Nickel	ppm	ASTM D5185m		<1		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m	>3	0		
	Aluminum	ppm	ASTM D5185m	>31	9		
	Lead	ppm	ASTM D5185m		4		
	Copper	ppm	ASTM D5185m		133		
	Tin	ppm	ASTM D5185m	>4	2		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
ONTAMINATION	Silicon	ppm	ASTM D5185m	-22	9		
ONTAMINATION	Potassium	ppm	ASTM D5185m		4		
There is no indication of any contamination in the oil.	Fuel	%	ASTM D3524	>2.1	<1.0		
	Water	70	WC Method		NEG		
	Glycol		WC Method	7 O.L I	NEG		
	Soot %	%	*ASTM D7844	>3	0.5		
	Nitration	Abs/cm	*ASTM D7624	>20	8.4		
	Sulfation	Abs/.1mm	*ASTM D7415		23.6		
	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		
LUD CONDITION	Sodium	ppm	ASTM D5185m	√31	3		
LUID CONDITION	Boron	ppm	ASTM D5185m	701	253		
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil.	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		216		
	Manganese	ppm	ASTM D5185m		3		
	Magnesium	ppm	ASTM D5185m		706		
	Calcium	ppm	ASTM D5185m		1523		
	Phosphorus	ppm	ASTM D5185m		909		
	Zinc	ppm	ASTM D5105m		1254		
	Sulfur	ppm	ASTM D5185m		3174		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	17.7		
	Base Number (BN)		ASTM D7414 ASTM D2896		8.4		
	Visc @ 100°C	cSt	ASTM D2030		12.1	-	





Certificate L2367

Report Id: WARNOR [WUSCAR] 06209877 (Generated: 06/22/2024 23:01:32) Rev: 1

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WE0007769 Lab Number : 06209877

Tested Diagnosed Unique Number : 11082741 Test Package : CONST (Additional Tests: FuelDilution, TBN)

Received : 14 Jun 2024 : 19 Jun 2024

: 19 Jun 2024 - Jonathan Hester

WARRIOR TRACTOR AND EQUIPMENT - NORTHPORT P.O. BOX 412 NORTHPORT, AL US 35476 Contact: PAMELA CLARK

pamela@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