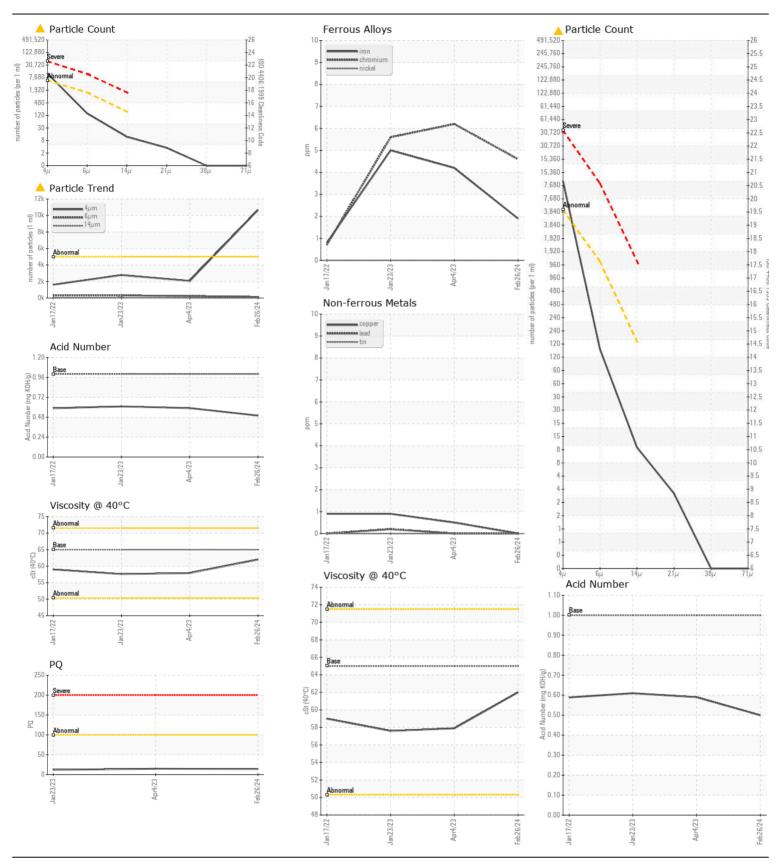
**WEAR** CONTAMINATION **FLUID CONDITION** 

**NORMAL ABNORMAL NORMAL** 

## JOHN DEERE 644P 1DW644PAJMLZ13178

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.	Sample Number		Client Info		WE0006273	WE0004060	WE000329
	Sample Date		Client Info		26 Feb 2024	04 Apr 2023	23 Jan 202
	Machine Age	hrs	Client Info		6442	3815	3234
	Oil Age	hrs	Client Info		6442	0	0
	Filter Age	hrs	Client Info		1	0	0
	Oil Changed		Client Info		Not Changd	Not Changd	Not Change
	Filter Changed		Client Info		Changed	Not Changd	Not Change
	Sample Status				ABNORMAL	NORMAL	NORMAL
WEAR	PQ		ASTM D8184		14	15	12
All component wear rates are normal.	Iron	ppm	ASTM D5185m	>20	2	4	5
	Chromium	ppm	ASTM D5185m	>10	5	6	6
	Nickel	ppm	ASTM D5185m	>10	0	0	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		<1	2	<1
	Lead	ppm	ASTM D5185m		0	0	<1
	Copper	ppm	ASTM D5185m		0	<1	<1
	Tin	ppm	ASTM D5185m	>10	0	0	0
	Vanadium White Metal	ppm	*Visual	NONE	0 NONE	0 NONE	0 NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
			VISUAI				
CONTAMINATION	Silicon	ppm	ASTM D5185m		0	1	1
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.	Potassium	ppm	ASTM D5185m		0	0	3
	Water		WC Method		NEG	NEG	NEG
	Particles >4µm		ASTM D7647		<u> 10651</u>	2074	2782
	Particles >6μm Particles >14μm		ASTM D7647 ASTM D7647		131 10	239 19	303 36
	Particles >14µm		ASTM D7647		3	4	12
	Particles >38µm		ASTM D7647		0	0	1
	Particles >71µm		ASTM D7647		0	0	0
	Oil Cleanliness		ISO 4406 (c)		<u>^</u> 21/14/10	18/15/11	19/15/1
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		0	3	2
	Boron	ppm	ASTM D5185m		0	0	0
The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.	Barium	ppm	ASTM D5185m		0	0	1
	Molybdenum	ppm	ASTM D5185m		0	0	<1
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		1	2	1
	Calcium	ppm	ASTM D5185m		60	74	74
	Phosphorus	ppm	ASTM D5185m		395	549	550
	Zinc	ppm	ASTM D5185m	900	549	683	730
	Sulfur	ppm	ASTM D5185m		981	1323	1412
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.50	0.59	0.61
	Visc @ 40°C	cSt	ASTM D445	65	62.0	57.9	57.6





Certificate L2367

Laboratory Sample No.

: WE0006273 Lab Number : 06101508

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 27 Feb 2024 **Tested** : 28 Feb 2024 : 28 Feb 2024 - Wes Davis

Unique Number: 10899738 Diagnosed

Test Package : CONST ( Additional Tests: PQ )

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

To discuss this sample report, contact Customer Service at 1-800-237-1369.

**WARRIOR TRACTOR AND EQUIPMENT - NORTHPORT** 

P.O. BOX 412 NORTHPORT, AL

US 35476 Contact: SCOTT GOOD sgood@warriortractor.com

T: (205)339-0300 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Report Id: WARNOR [WUSCAR] 06101508 (Generated: 02/28/2024 11:08:32) Rev: 1

Contact/Location: SCOTT GOOD - WARNOR