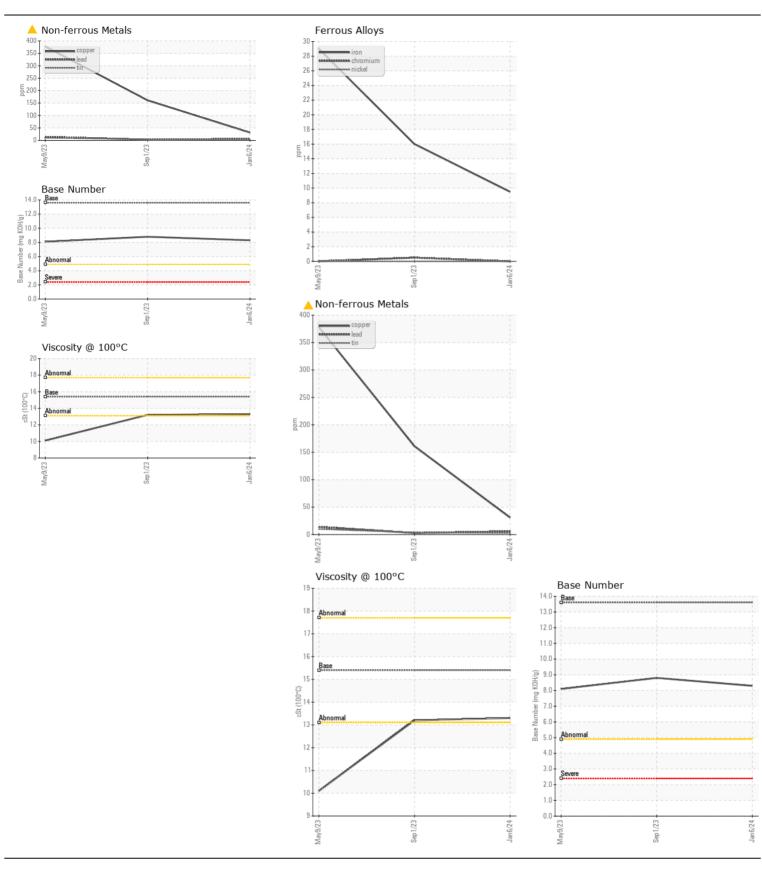
**WEAR** CONTAMINATION **FLUID CONDITION**  **ABNORMAL NORMAL NORMAL** 

## JOHN DEERE 460P 1DW460PATPFB06235

Diesel Engine								
JOHN DEERE ENGINE OIL PLUS 50 II	15W40 (	- QTS)						
				NA - AleI	Line in / Allere	2	T. Caramad	I lista a O
RECOMMENDATION  Oil and filter change at the time of sampling has been noted. No		Test	UOM	Method	Limit/Abn	Current WE0006310	History1	History2
		Sample Number Sample Date		Client Info		06 Jan 2024	WE0005027	WE0004098
corrective action is recommended at this time. Resample at the next service interval to monitor.			bro	Client Info			01 Sep 2023 927	09 May 2023 431
		Machine Age	hrs	Client Info		1430		
		Oil Age Filter Age	hrs hrs	Client Info		0	0	0
		Oil Changed	1115	Client Info		Changed	Changed	Changed
		Filter Changed		Client Info		Changed	Changed	Changed
		Sample Status		Client iiiio		ABNORMAL	0	ABNORMAL
<u></u>						ADINOTUNAL	ADINOTIVIAL	
WEAR		Iron	ppm	ASTM D5185m	>51	10	16	29
The copper level has decreased, but is still abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other component wear rates are normal.	-1	Chromium	ppm	ASTM D5185m	>11	0	<1	0
		Nickel	ppm	ASTM D5185m	>5	0	0	0
		Titanium	ppm	ASTM D5185m		6	11	4
	3 arc	Silver	ppm	ASTM D5185m	>3	0	0	0
		Aluminum	ppm	ASTM D5185m	>31	5	3	5
		Lead	ppm	ASTM D5185m	>26	6	3	14
		Copper	ppm	ASTM D5185m	>26	<u></u> 31	<u></u> 161	<b>△</b> 378
		Tin	ppm	ASTM D5185m	>4	3	4	10
		Vanadium	ppm	ASTM D5185m		0	<1	0
		White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
		Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTABINATION		Ciliaan		ACTM DE10E	00	4	0	10
CONTAMINATION		Silicon	ppm	ASTM D5185m		4	8	12
There is no indication of any contamination in the oil.		Potassium Fuel	ppm	ASTM D5185m		1	2	0.5
		Water		WC Method	>2.1	<1.0 NEG	<1.0 NEG	NEG
		Glycol		WC Method	>0.21		NEG	NEG
		Soot %	%	*ASTM D7844	. 2	NEG 0.3	0.3	0.3
		Nitration	Abs/cm	*ASTM D7644	>20	9.3	9.2	8.8
		Sulfation	Abs/.1mm	*ASTM D7024		23.3	22.7	22.3
		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	NORML
		Odor	scalar	*Visual	NORML	NORML	NORML	NORML
		Emulsified Water		*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION		Sodium	ppm	ASTM D5185m	>31	4	5	8
The PN recult indicates that there is quitable alkalinity remaining in	inin a in Alan	Boron	ppm	ASTM D5185m		168	180	162
The BN result indicates that there is suitable alkalinity remaining in the oil.	ining in the	Barium	ppm	ASTM D5185m		0	0	0
		Molybdenum	ppm	ASTM D5185m		235	234	245
		Manganese	ppm	ASTM D5185m		2	2	11
		Magnesium	ppm	ASTM D5185m		764	862	820
		Calcium	ppm	ASTM D5185m		1296	1568	1468
		Phosphorus	ppm	ASTM D5185m		843	958	912
		Zinc	ppm	ASTM D5185m		1033	1206	1096
		Sulfur	ppm	ASTM D5185m		2832	3904	3350
		Oxidation	Abs/.1mm	*ASTM D7414	>25	17.2	16.8	17.2
		Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.3	8.8	8.1
		Visc @ 100°C	cSt	ASTM D445	15.4	13.3	13.2	▲ 10.1







Certificate L2367

Laboratory Sample No. Unique Number : 10872108

Lab Number : 06084663

: WE0006310

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 09 Feb 2024 **Tested** : 12 Feb 2024

Diagnosed : 12 Feb 2024 - Sean Felton Test Package : CONST (Additional Tests: TBN)

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

US 35476 Contact: CRAIG ANDOE

serve01@warriortractor.com T: (205)339-0300

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)