

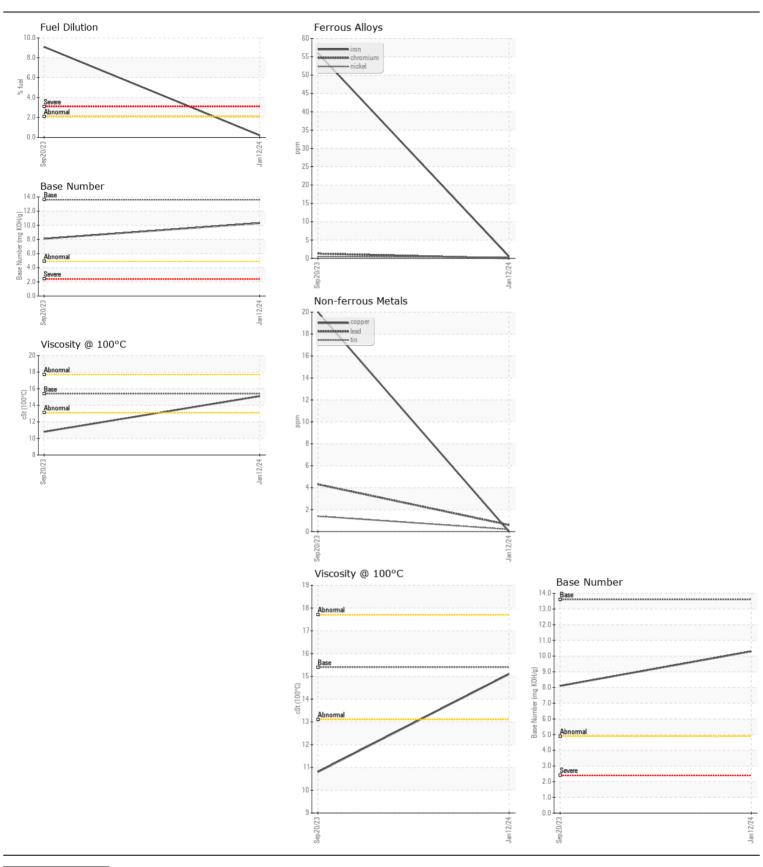
**WEAR** CONTAMINATION **FLUID CONDITION**  **NORMAL NORMAL NORMAL** 

[A34461]

## JOHN DEERE 450K 1T0450KXPMF390627

Component
Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number		Client Info		WE0005960	WE0005624	
	Sample Date		Client Info		12 Jan 2024	20 Sep 2023	
	Machine Age	hrs	Client Info		1069	1012	
	Oil Age	hrs	Client Info		60	512	
	Filter Age	hrs	Client Info		60	512	
	Oil Changed		Client Info		Not Changd	Changed	
	Filter Changed		Client Info		Not Changd	Changed	
	Sample Status				NORMAL	SEVERE	
VEAR	Iron	ppm	ASTM D5185m	<u></u>	<1	<u>^</u> 56	
VEAIL	Chromium	ppm	ASTM D5185m		0	1	
All component wear rates are normal.	Nickel		ASTM D5185m		<1	<1	
	Titanium	ppm	ASTM D5185m	>5	0	0	
	Silver	ppm		. 0			
	Aluminum	ppm	ASTM D5185m ASTM D5185m		0 4	0 6	
		ppm				4	
	Lead	ppm	ASTM D5185m		<1 0	20	
	Copper Tin	ppm	ASTM D5185m ASTM D5185m		υ <1	1	
	Vanadium	ppm	ASTM D5185m	>4	<1 <1	<1	
	White Metal	ppm	*Visual	NONE	NONE	NONE	
		scalar		NONE			
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	8	9	
	Potassium	ppm	ASTM D5185m	>20	2	2	
Fuel content negligible. There is no indication of any contamination in the oil.	Fuel	%	ASTM D3524	>2.1	0.2	9.1	
	Water		WC Method	>0.21	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0	0.8	
	Nitration	Abs/cm	*ASTM D7624	>20	5.5	12.1	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.6	25.5	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	<b>Emulsified Water</b>	scalar	*Visual	>0.21	NEG	NEG	
THE COMPLETION						_	
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	<1	5	
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		268	79	
	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		239	234	
	Manganese	ppm	ASTM D5185m		<1	2	
	Magnesium	ppm	ASTM D5185m		820	816	
	Calcium	ppm	ASTM D5185m		1353	1373	
	Phosphorus	ppm	ASTM D5185m		964	763	
	Zinc	ppm	ASTM D5185m		1097	950	
	Sulfur	ppm	ASTM D5185m		3192	3466	
	Oxidation	Abs/.1mm	*ASTM D7414		14.4	21.8	
	Base Number (BN)	ma KOH/a	ASTM D2896	13.6	10.3	8.1	





Laboratory Sample No. Lab Number **Unique Number** 

: WE0005960 : 06063314 : 10834696

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 17 Jan 2024 Diagnosed

: 19 Jan 2024 Diagnostician : Wes Davis

**Test Package**: CONST (Additional Tests: PercentFuel, TBN) 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)

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