

WEAR CONTAMINATION **FLUID CONDITION**

NORMAL NORMAL NORMAL

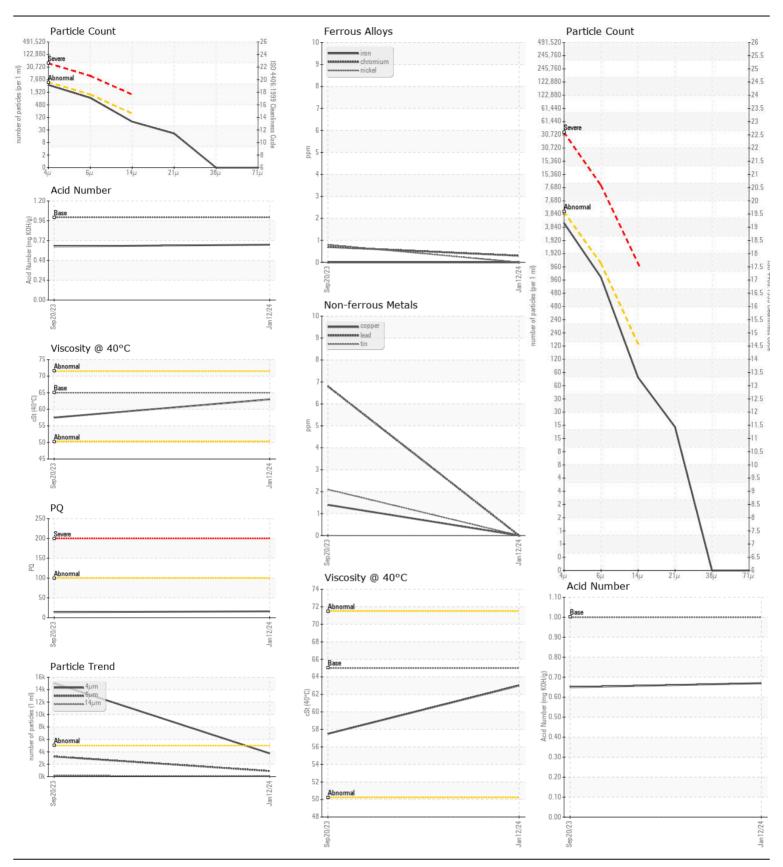
[A34461]

JOHN DEERE 450K 1T0450KXPMF390627

Component Hydraulic System

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
TEOOMMENDATION	Sample Number		Client Info	21111071011	WE0006583	WE0005612	
Resample at the next service interval to monitor.	Sample Date		Client Info		12 Jan 2024	20 Sep 2023	
	Machine Age	hrs	Client Info		1062	1012	
	Oil Age	hrs	Client Info		50	1012	
	Filter Age	hrs	Client Info		50	1012	
	Oil Changed		Client Info		Not Changd	Not Changd	
	Filter Changed		Client Info		Not Changd	Not Changd	
	Sample Status				NORMAL	ABNORMAL	
WEAR	PQ		ASTM D8184		16	14	
VEAIL	Iron	ppm	ASTM D5185m	>20	0	0	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1	<1	
	Nickel	ppm	ASTM D5185m		0	<1	
	Titanium	ppm	ASTM D5185m	>10	0	0	
	Silver	ppm	ASTM D5185m		0	1	
	Aluminum	ppm	ASTM D5185m	>10	2	1	
	Lead	ppm	ASTM D5185m		0	7	
	Copper	ppm	ASTM D5185m		0	1	
	Tin	ppm	ASTM D5185m		0	2	
	Vanadium	ppm	ASTM D5185m	>10	0	1	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	nnm	ASTM D5185m	- 20	0	2	
CONTAINMATION	Potassium	ppm	ASTM D5185m		<1	93	
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.	Water	ppm	WC Method		NEG	NEG	
	Particles >4µm		ASTM D7647		3739	▲ 15046	
	Particles >6µm		ASTM D7647		902	▲ 3239	
	Particles >14µm		ASTM D7647		66	▲ 168	
	Particles >21µm		ASTM D7647		18	32	
	Particles >38µm		ASTM D7647		0	0	
	Particles >30µm		ASTM D7647		0	0	
					_	-	
	Oil Cleanliness		ISO 4406 (c)		19/17/13	<u>A</u> 21/19/15	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris Sand/Dirt	scalar	*Visual	NONE	NONE	NONE NONE	
		scalar	*Visual	NONE	NONE	_	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML >0.1	NORML	NORML	
	Emulsified Water	Scalar	visuai	>0.1	NEG	NEG	
LUID CONDITION	Sodium	ppm	ASTM D5185m		0	39	
	Boron	ppm	ASTM D5185m		0	<1	
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		3	0	
	Molybdenum	ppm	ASTM D5185m		0	<1	
	Manganese	ppm	ASTM D5185m		0	0	
	Magnesium	ppm	ASTM D5185m		1	20	
	Calcium	ppm	ASTM D5185m		98	0	
	Phosphorus	ppm	ASTM D5185m	727	715	337	
	Zinc	ppm	ASTM D5185m	900	842	72	
	Sulfur	ppm	ASTM D5185m	1500	1835	1853	
	Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.67	0.65	
	Visc @ 40°C	cSt	ASTM D445	65	63.0	57.5	

Contact/Location: TODD MITCHELL - WARMAD





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

: WE0006583 : 06063517 : 10834899

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

Diagnosed : 19 Jan 2024 : Wes Davis Diagnostician

Test Package : CONST (Additional Tests: PQ) Certificate L2367

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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Contact/Location: TODD MITCHELL - WARMAD

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