**WEAR CONTAMINATION FLUID CONDITION** 

**NORMAL ABNORMAL NORMAL** 

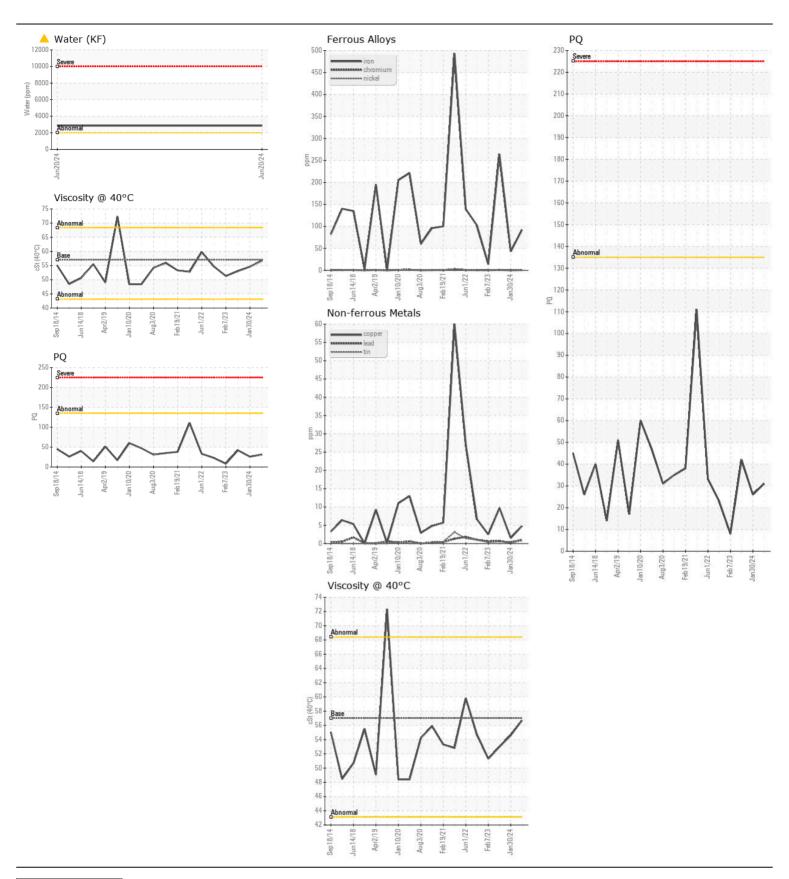


[W68055]

## **JOHN DEERE 644K 1DW644KZKDE652005**

Rear Differential

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. ( Customer Sample Comment: W68055 )	Sample Number		Client Info		JR0219732		JR017833
	Sample Date		Client Info		20 Jun 2024	30 Jan 2024	30 Aug 202
	Machine Age	hrs	Client Info		15382	14927	14513
	Oil Age	hrs	Client Info		14968	14513	1042
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Not Changd	Not Changd	Changed
	Filter Changed		Client Info		Not Changd	Not Changd	N/A
	Sample Status				ABNORMAL	NORMAL	NORMAL
WEAR	PQ		ASTM D8184	>135	31	26	42
	Iron	ppm	ASTM D5185m		92	43	264
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1	0	1
	Nickel	ppm	ASTM D5185m		<1	0	1
	Titanium	ppm	ASTM D5185m		<1	0	<1
	Silver	ppm	ASTM D5185m		<1	0	0
	Aluminum	ppm	ASTM D5185m	>5	3	<1	3
	Lead	ppm	ASTM D5185m	>95	1	<1	<1
	Copper	ppm	ASTM D5185m	>170	5	2	10
	Tin	ppm	ASTM D5185m	>15	<1	<1	<1
	Vanadium	ppm	ASTM D5185m		<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>35	11	10	14
There is a light concentration of water present in the oil.	Potassium	ppm	ASTM D5185m	>20	2	0	2
	Water	%	ASTM D6304	>.2	<b>△</b> 0.285		
	ppm Water	ppm	ASTM D6304	>2000	<b>2850</b>		
	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	>.2	<u> </u>	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		0	0	0
The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185m	6	3	0	1
	Barium	ppm	ASTM D5185m	0	1	<1	2
	Molybdenum	ppm	ASTM D5185m	0	1	0	2
		ppm	ASTM D5185m		2	<1	3
	Manganese	le le					105
	Manganese Magnesium	ppm	ASTM D5185m	145	90	99	105
	_		ASTM D5185m ASTM D5185m		90 3324	99 3233	4156
	Magnesium	ppm		3570			
	Magnesium Calcium	ppm ppm	ASTM D5185m	3570 1290	3324	3233	4156
	Magnesium Calcium Phosphorus	ppm ppm	ASTM D5185m ASTM D5185m	3570 1290	3324 999	3233 986	4156 1238







Certificate L2367

Laboratory Sample No.

Lab Number

: JR0219732 : 06218522 Unique Number: 11096719

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Received **Tested** Diagnosed Test Package: CONST (Additional Tests: KF, PQ)

: 26 Jun 2024 : 26 Jun 2024 - Sean Felton

: 24 Jun 2024 9550 STATESVILLE ROAD CHARLOTTE, NC US 28269

> Contact: CHARLOTTE SHOP myoung@jamesriverequipment.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)

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JRE - CHARLOTTE

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