**WEAR CONTAMINATION FLUID CONDITION** 

**NORMAL ABNORMAL NORMAL** 

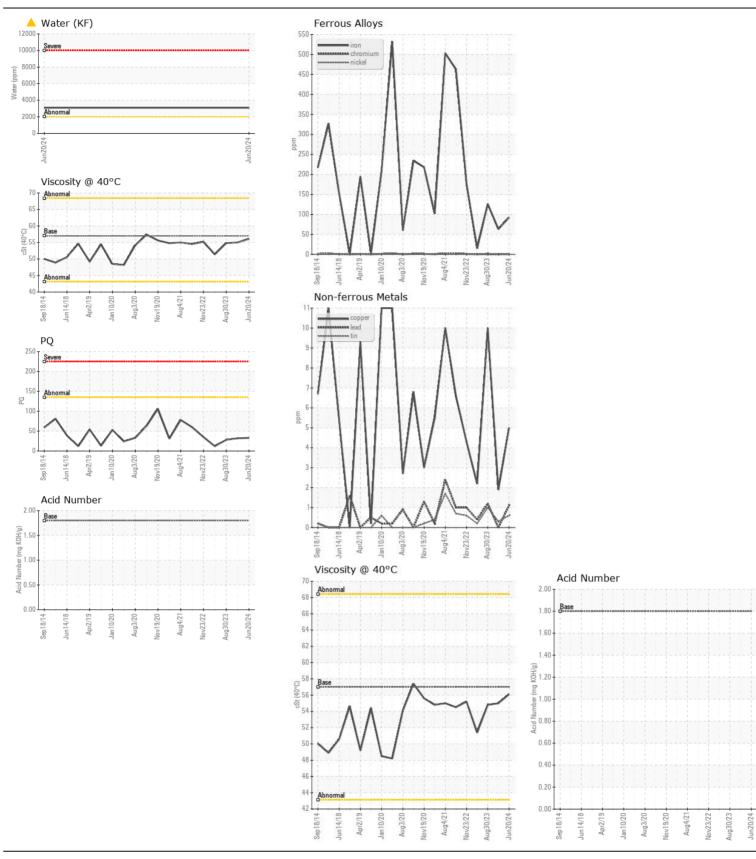


[W68055]

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

Front Differential

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number	OOW	Client Info	Little/toll	JR0219731	JR0198229	JR017833
No corrective action is recommended at this time. Resample at the next service interval to monitor. ( Customer Sample Comment: W68055 )	Sample Date		Client Info		20 Jun 2024	30 Jan 2024	30 Aug 202
	Machine Age	hrs	Client Info		15382	14513	14513
	Oil Age	hrs	Client Info		14968	14927	1042
	Filter Age	hrs	Client Info		0	14927	0
	Oil Changed		Client Info		Not Changd	Not Changd	Changed
	Filter Changed		Client Info		Not Changd	Not Changd	N/A
	Sample Status				ABNORMAL	NORMAL	NORMAI
WEAR	PQ		ASTM D8184	>135	33	32	28
	Iron	ppm	ASTM D5185m	>420	92	63	126
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1	0	<1
	Nickel	ppm	ASTM D5185m	>4	<1	0	2
	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	0	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	10	9	18
There is a light concentration of water present in the oil. Moderate concentration of visible dirt/debris present in the oil.	Potassium	ppm	ASTM D5185m	>20	2	0	2
	Water	%	ASTM D6304	>.2	<b>△</b> 0.309		
	ppm Water	ppm	ASTM D6304	>2000	<u></u> 4 3090		
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	▲ MODER	NONE	LIGHT
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORN
	Odor	scalar	*Visual	NORML	NORML	NORML	NORN
	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	2	<1	6
	Barium	ppm	ASTM D5185m	0	1	<1	3
	Molybdenum	ppm	ASTM D5185m	0	1	0	1
	Manganese	ppm	ASTM D5185m		2	1	1
	Magnesium	ppm	ASTM D5185m		91	99	98
	Calcium	ppm	ASTM D5185m		3326	3191	3745
	Phosphorus	ppm	ASTM D5185m		922	996	1073
	Zinc	ppm	ASTM D5185m	1640	1181	1166	1176
	Sulfur	ppm	ASTM D5185m		3692	3166	3948







Certificate L2367

Laboratory Sample No. **Lab Number** Unique Number : 11098203

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0219731 : 06220006

Received **Tested** Diagnosed

: 25 Jun 2024 : 26 Jun 2024

: 26 Jun 2024 - Sean Felton

JRE - CHARLOTTE 9550 STATESVILLE ROAD

CHARLOTTE, NC US 28269

Test Package : CONST ( Additional Tests: ICP, KF, KV40, PQ, PrtCount, SCREEN, TANDMatact: CHARLOTTE SHOP To discuss this sample report, contact Customer Service at 1-800-237-1369.

myoung@jamesriverequipment.com T: (704)597-0211

\* - 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)

F: (704)596-6198