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

## **JOHN DEERE 648L 1DW648LBTKF694154**

Component Hydraulic System

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		JR0162271		
No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Date		Client Info		09 Feb 2024		
	Machine Age	hrs	Client Info		6980		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		N/A		
	Filter Changed		Client Info		N/A		
	Sample Status				ABNORMAL		
VEAR	PQ		ASTM D8184		26		
WEAR	Iron	ppm	ASTM D5185m	>20	<u>△</u> 35		
The iron level is abnormal. The chromium level is abnormal.	Chromium	ppm	ASTM D5185m		<u>▲</u> 13		
	Nickel	ppm	ASTM D5185m		<1		
	Titanium	ppm	ASTM D5185m	>10	<1		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m	>10	2		
	Lead	ppm	ASTM D5185m		<1		
	Copper	ppm	ASTM D5185m		3		
	Tin	ppm	ASTM D5185m		<1		
	Vanadium	ppm	ASTM D5185m	>10	0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m		14 4		
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.	Potassium	ppm	ASTM D5185m				
	Water		WC Method		NEG		
	Particles >4µm		ASTM D7647 ASTM D7647		<b>▲</b> 7390		
	Particles >6µm				1140		
	Particles >14µm		ASTM D7647		103 28		
	Particles >21µm		ASTM D7647		20 1		
	Particles >38µm		ASTM D7647		0		
	Particles >71µm		ASTM D7647		-		
	Oil Cleanliness		ISO 4406 (c)		▲ 20/17/14		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
<u></u>	Emulsified Water	scalar	*Visual	>0.1	NEG		
LUID CONDITION	Sodium	ppm	ASTM D5185m		0		
The ANI benefits assessed by Control Control The condition of the efficient	Boron	ppm	ASTM D5185m		3		
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		13		
	Molybdenum	ppm	ASTM D5185m		4		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m		8		
	Calcium	ppm	ASTM D5185m		129		
	Phosphorus	ppm	ASTM D5185m		537		
	Zinc	ppm	ASTM D5185m		659		
	Sulfur	ppm	ASTM D5185m		1813		
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.55		
	Visc @ 40°C	cSt	ASTM D445		51.1		





Certificate L2367

Laboratory Sample No.

: JR0162271 Lab Number : 06085987 Unique Number : 10873432

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

: 13 Feb 2024 : 13 Feb 2024 - Don Baldridge Diagnosed Test Package : CONST ( Additional Tests: PQ )

JRE - MOUNT GILEAD 305 NORTH MAIN STREET MOUNT GILEAD, NC US 27306

Contact: ADAM CRUMP adam.crump@jamesriverequipment.com

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

F: (910)439-4568

T: