



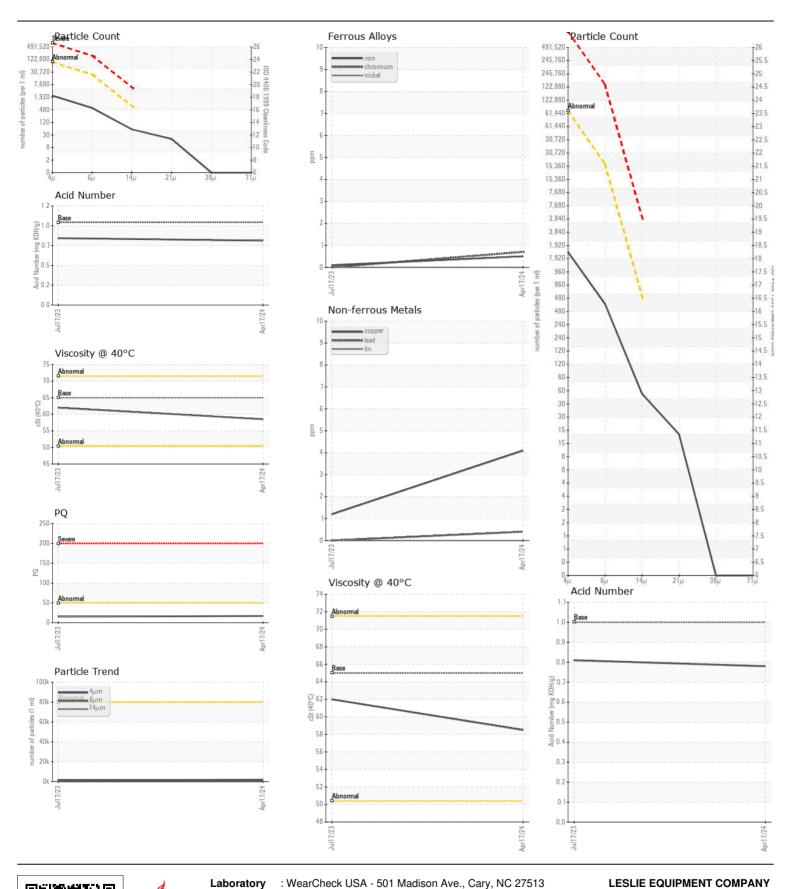
**WEAR CONTAMINATION FLUID CONDITION**  **NORMAL NORMAL NORMAL** 

## Store 1 - Cowen [RO#149061] **JOHN DEERE 648L2 1DW648LBKNF715642**

Hydraulic System

JOHN DEERE HYDRAU (33 GAL)

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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
TECOMMENDATION	Sample Number	OOW	Client Info	LIIII07 (OII	LEC0048937		
Resample at the next service interval to monitor.	Sample Date		Client Info		17 Apr 2024	17 Jul 2023	
	Machine Age	hrs	Client Info		834	427	
	Oil Age	hrs	Client Info		834	427	
	Filter Age	hrs	Client Info		834	427	
	Oil Changed		Client Info		Not Changd	Not Changd	
	Filter Changed		Client Info		Not Changd		
	Sample Status				NORMAL	NORMAL	
WEAR	PQ		ASTM D8184		17	15	
All component wear rates are normal.	Iron	ppm	ASTM D5185m		<1	<1	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1	0	
	Nickel	ppm	ASTM D5185m	>5	0	0	
	Titanium	ppm	ASTM D5185m		0	0	
	Silver	ppm	ASTM D5185m	. 0	0	<1	
	Aluminum Lead	ppm	ASTM D5185m ASTM D5185m		0 <1	0	
	Copper	ppm	ASTM D5185m		4	1	
	Tin	ppm	ASTM D5185m		0	0	
	Vanadium	ppm	ASTM D5185m	70	0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>31	8	2	
The sustain placelines is accordable for your toward ISO 4400	Potassium	ppm	ASTM D5185m	>20	3	1	
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.	Water		WC Method		NEG	NEG	
cleaniness code. The system and huid cleaniness is acceptable.	Particles >4μm		ASTM D7647		1997	1378	
	Particles >6µm		ASTM D7647		514	357	
	Particles >14µm		ASTM D7647		49	33	
	Particles >21µm		ASTM D7647		17	9	
	Particles >38μm Particles >71μm		ASTM D7647 ASTM D7647		0	0	
	Oil Cleanliness			>23/21/16	18/16/13	18/16/12	
	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	>0.075	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>21	3	0	
The AN level is acceptable for this fluid. The condition of the oil is	Boron	ppm	ASTM D5185m		0	0	
suitable for further service.	Barium	ppm	ASTM D5185m		0	1	
	Molybdenum	ppm	ASTM D5185m		0	<1	
	Manganese Magnesium	ppm	ASTM D5185m ASTM D5185m		<1 3	0	
	Calcium	ppm	ASTM D5185m	87	123	120	
	Phosphorus	ppm	ASTM D5185m		694	789	
	Zinc	ppm	ASTM D5185m	900	866	1028	
	Sulfur	ppm	ASTM D5185m		2048	2232	
	Acid Number (AN)	mg KOH/g		1.0	0.78	0.81	
	Visc @ 40°C	cSt	ASTM D445		58.5	62.0	





Certificate L2367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06154215

: LEC0048937 Unique Number: 10989638

Test Package : CONST ( Additional Tests: PQ )

Received **Tested** Diagnosed

: 19 Apr 2024 : 22 Apr 2024

: 22 Apr 2024 - Wes Davis

US 45750-9765 Contact: LEANNE KENDALL KendalLeanne@lec1.com

105 TENNIS CENTER DR.

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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MARIETTA, OH