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

Machine Id

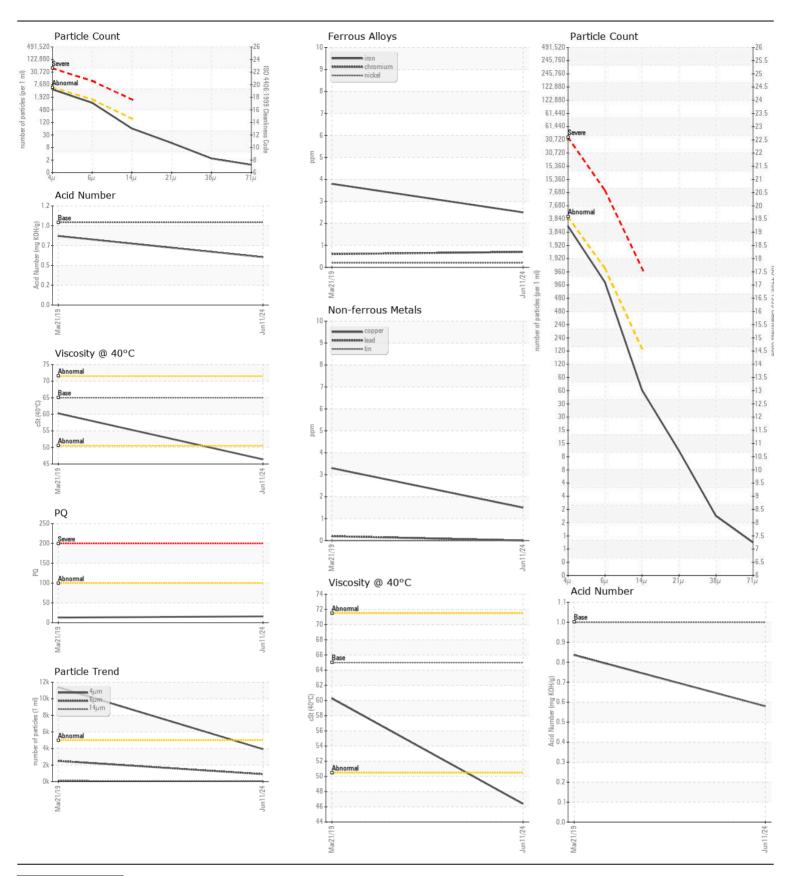
JOHN DEERE 648L II 1DW648LBLJF692803

Hydraulic System

IOHN DEERE HYDRAII (--- GAL)

JOHN DEERE HYDRAU (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0211479	JRMC465361	
	Sample Date		Client Info		11 Jun 2024	21 Mar 2019	
	Machine Age	hrs	Client Info		10268	507	
	Oil Age	hrs	Client Info		0	507	
	Filter Age	hrs	Client Info		0	507	
	Oil Changed		Client Info		Not Changd	Not Changd	
	Filter Changed		Client Info		Not Changd	Not Changd	
	Sample Status				NORMAL	NORMAL	
WEAR All component wear rates are normal.	PQ		ASTM D8184		16	13	
	Iron	ppm	ASTM D5185m	>20	2	4	
	Chromium	ppm	ASTM D5185m		- <1	<1	
	Nickel	ppm	ASTM D5185m		<1	<1	
	Titanium	ppm	ASTM D5185m	210	0	0	
	Silver	ppm	ASTM D5185m		0	0	
	Aluminum	ppm	ASTM D5185m	>10	<1	<1	
	Lead	ppm	ASTM D5185m		0	<1	
	Copper	ppm	ASTM D5185m		2	3	
	Tin	ppm	ASTM D5185m		0	0	
	Vanadium	ppm	ASTM D5185m	>10	0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
			visuai	NOINE	INONE	INOINE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	3	3	
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.	Potassium	ppm	ASTM D5185m	>20	3	3	
	Water		WC Method	>0.1	NEG	NEG	
	Particles >4µm		ASTM D7647	>5000	3922	11372	
	Particles >6µm		ASTM D7647	>1300	904	2501	
	Particles >14μm		ASTM D7647	>160	54	115	
	Particles >21μm		ASTM D7647	>40	11	19	
	Particles >38μm		ASTM D7647	>10	2	0	
	Particles >71μm		ASTM D7647	>3	1	0	
	Oil Cleanliness		ISO 4406 (c)	>19/17/14	19/17/13	21/19/14	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	LIGHT	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		3	1	
Page Compilion	Boron	ppm	ASTM D5185m		0	0	
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	<1	
	Molybdenum	ppm	ASTM D5185m		0	<1	
	Manganese	ppm	ASTM D5185m		<1	<1	
	Magnesium	ppm	ASTM D5185m		10	1	
	Calcium	ppm	ASTM D5185m	87	800	123	
	Phosphorus	ppm	ASTM D5185m		535	601	
	Zinc	ppm	ASTM D5185m		673	797	
	Sulfur	ppm	ASTM D5185m		2231	1673	
	Acid Number (AN)	mg KOH/g	ASTM D3163111		0.58	0.836	
	Visc @ 40°C	cSt	ASTM D6045		46.4	60.27	
	VISC @ 40°C	COL	ASTIVI D445	00	40.4	00.27	

Contact/Location: DAVID ZIEG - JAMASH





Certificate L2367

Laboratory Sample No. Lab Number

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

: JR0211479 : 06209975

Received **Tested** Unique Number : 11082839

Diagnosed Test Package : CONST (Additional Tests: PQ)

: 17 Jun 2024 : 17 Jun 2024 - Don Baldridge

: 14 Jun 2024

JRE - ASHLAND 11047 LEADBETTER RD ASHLAND, VA US 23005

Contact: DAVID ZIEG dzieg@jamesriverequipment.com T: (804)798-6001

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.

F: (804)798-0292 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: DAVID ZIEG - JAMASH