WEAR CONTAMINATION FLUID CONDITION

NORMAL **ABNORMAL** NORMAL

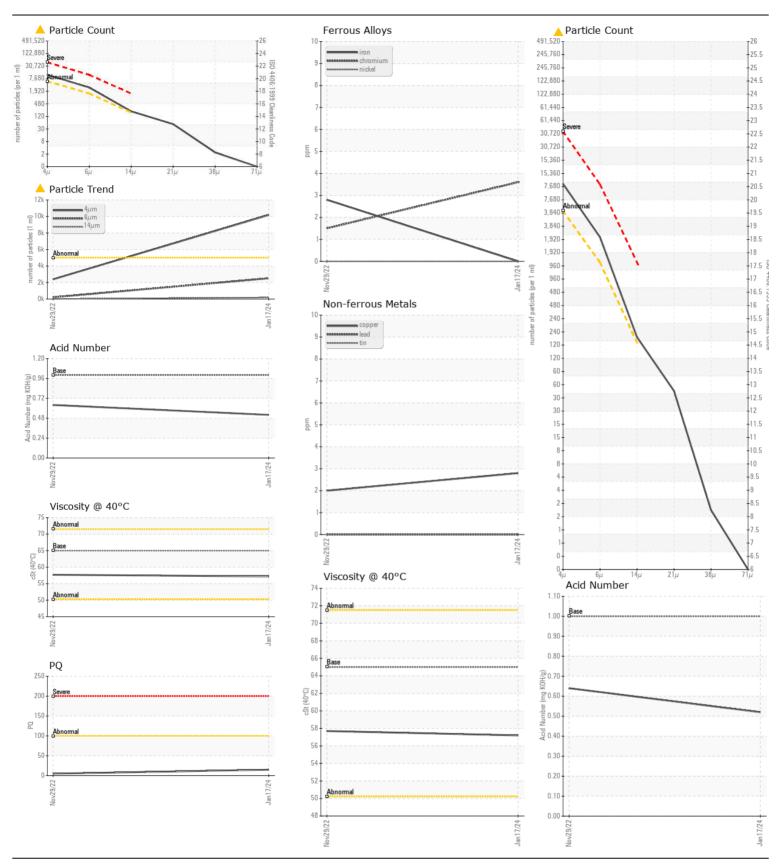
JOHN DEERE 643L-II 1DW643LBANF714158

Component Hydraulic System

JOHN DEERE HYDRAU (--- GAL)

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RECOMMENDATION	Test	UOM	Method	Limit/Abn		History1	History2
We recommend you service the filters on this component. We recommend an early resample to monitor this condition.	Sample Number		Client Info		JR0200314	JR0148205	
	Sample Date		Client Info		17 Jan 2024	29 Nov 2022	
	Machine Age	hrs	Client Info		1291	514	
	Oil Age	hrs	Client Info		0	514	
	Filter Age	hrs	Client Info		0	514	
	Oil Changed		Client Info		Not Changd	Not Changd	
	Filter Changed		Client Info		Not Changd	Not Changd	
	Sample Status				ABNORMAL	NORMAL	
A/E A D	PQ		ASTM D8184		15	E	
WEAR	Iron	nnm	ASTM D5185m	- 20	0	5 3	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		4	2	
		ppm			0	0	
	Nickel	ppm	ASTM D5185m	>10	-		
	Titanium Silver	ppm	ASTM D5185m ASTM D5185m		0	0	
		ppm		10	0	0	
	Aluminum	ppm	ASTM D5185m		0	0	
	Lead	ppm	ASTM D5185m		0	0	
	Copper	ppm	ASTM D5185m		3	2	
	Tin Vanadium	ppm	ASTM D5185m	>10	0	0	
		ppm	ASTM D5185m	NONE	-	NONE	
	White Metal	scalar	*Visual		NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	6	6	
CONTABILITATION	Potassium	ppm	ASTM D5185m		0	<1	
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.	Water	le le · · ·	WC Method		NEG	NEG	
	Particles >4µm		ASTM D7647		<u> 10169</u>	2390	
	Particles >6µm		ASTM D7647		<u>^</u> 2514	211	
	Particles >14µm		ASTM D7647	>160	184	14	
	Particles >21µm		ASTM D7647		45	4	
	Particles >38µm		ASTM D7647	>10	2	0	
	Particles >71µm		ASTM D7647		0	0	
	Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u>^</u> 21/19/15	18/15/11	
	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	
	Emulsified Water		*Visual	>0.1	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		0	<1	
Fhe AN level is acceptable for this fluid. The oil is still serviceable	Boron	ppm	ASTM D5185m		0	<1	
provided that the contaminant(s) can be reduced to acceptable levels.	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		0	<1	
	Manganese	ppm	ASTM D5185m		<1	<1	
	Magnesium	ppm	ASTM D5185m		4	4	
	Calcium	ppm	ASTM D5185m		70	91	
	Phosphorus	ppm	ASTM D5185m		529	591	
	Zinc	ppm	ASTM D5185m		681	801	
	Sulfur	ppm	ASTM D5185m		1363	1671	
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.52	0.64	
	Visc @ 40°C	cSt	ASTM D445	65	57.2	57.7	

Contact/Location: DAVID ZIEG - JAMASH





Certificate L2367

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

: JR0200314 : 06065515

: 10836897

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 19 Jan 2024 : 23 Jan 2024 Diagnosed Diagnostician : Wes Davis

Test Package : CONST (Additional Tests: PQ)

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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