WEAR CONTAMINATION FLUID CONDITION

ABNORMAL ABNORMAL NORMAL

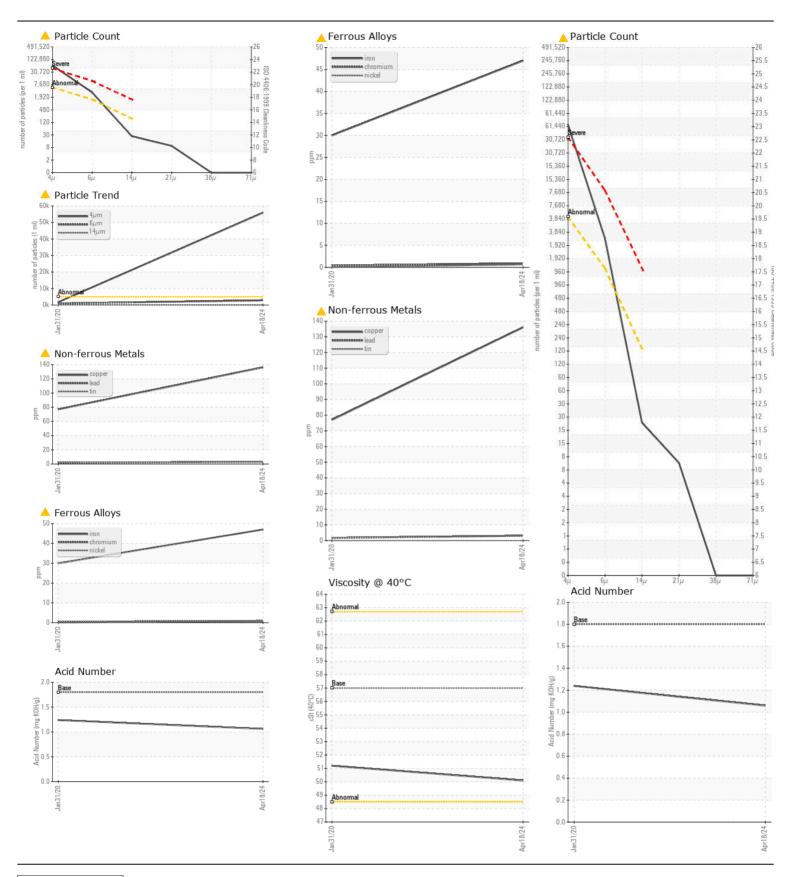
[W21491-READ]

JOHN DEERE 5055E 1PY5055ELHH401695

Hydraulic System

JOHN DEERE HY-GARD HYD/TRANS (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History
	Sample Number		Client Info		JR0210833	,	
We recommend you service the filters on this component. Resample at the next service interval to monitor.	Sample Date		Client Info		18 Apr 2024	31 Jan 2020	
	Machine Age	hrs	Client Info		376	180	
	Oil Age	hrs	Client Info		376	180	
	Filter Age	hrs	Client Info		376	180	
	Oil Changed		Client Info		Not Changd	Not Changd	
	Filter Changed		Client Info		Not Changd	Not Changd	
	Sample Status				ABNORMAL	ABNORMAL	
WEAR	PQ		ASTM D8184		24	16	
The iron level is abnormal. The copper level is abnormal. All other metal levels are typical for a new component breaking in.	Iron	ppm	ASTM D5185m	>20	<u> 4</u> 7	<u> </u>	
	Chromium	ppm	ASTM D5185m		<1	<1	
	Nickel	ppm	ASTM D5185m		<1	0	
	Titanium	ppm	ASTM D5185m	>10	<1	<1	
	Silver	ppm	ASTM D5185m		<1	<1	
	Aluminum	ppm	ASTM D5185m	>10	3	2	
	Lead	ppm	ASTM D5185m		3	2	
	Copper		ASTM D5185m		<u> </u>	<u>∠</u> 77	
	Tin	ppm	ASTM D5185m		3	2	
	Vanadium		ASTM D5185m	210	ა <1	0	
	White Metal	ppm scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m		7	6	
There is a high amount of silt (particulates < 14 microns in size)	Potassium	ppm	ASTM D5185m		4	2	
present in the oil.	Water		WC Method		NEG	NEG	
	Particles >4µm		ASTM D7647		<u> 55911</u>	1730	
	Particles >6µm		ASTM D7647		<u>^</u> 2840	942	
	Particles >14μm		ASTM D7647		23	160	
	Particles >21µm		ASTM D7647		8	54	
	Particles >38µm		ASTM D7647		0	8	
	Particles >71μm		ASTM D7647		0	0	
	Oil Cleanliness		ISO 4406 (c)		<u>^</u> 23/19/12	18/17/14	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	LIGHT	NONE	
	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	0.2%	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		5	4	
The AN level is acceptable for this fluid.	Boron	ppm	ASTM D5185m	6	4	6	
	Barium	ppm	ASTM D5185m	0	<1	<1	
	Molybdenum	ppm	ASTM D5185m	0	<1	<1	
	Manganese	ppm	ASTM D5185m		3	2	
	Magnesium	ppm	ASTM D5185m	145	85	92	
	Calcium	ppm	ASTM D5185m	3570	3244	3507	
	Phosphorus	ppm	ASTM D5185m		1021	1008	
	Zinc	ppm	ASTM D5185m		1183	1209	
	Sulfur	ppm	ASTM D5185m		4081	3196	
	Acid Number (AN)	mg KOH/g	ASTM D8045	1.8	1.06	1.239	





Certificate L2367

Laboratory

Sample No. Lab Number

: JR0210833 : 06156860 Unique Number: 10992283

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

Diagnosed Test Package : CONST (Additional Tests: PQ)

: 23 Apr 2024 : 24 Apr 2024 - Angela Borella

: 22 Apr 2024

JRE - BURKEVILLE 510 WEST COLONIAL DR BURKEVILLE, VA US 23922

Contact: BRANDON BOLLING bbolling@jamesriverequipment.com

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: (434)767-3774 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) Contact/Location: BRANDON BOLLING - JAMBUR

T: (434)767-5578