WEAR CONTAMINATION FLUID CONDITION

SEVERE NORMAL NORMAL

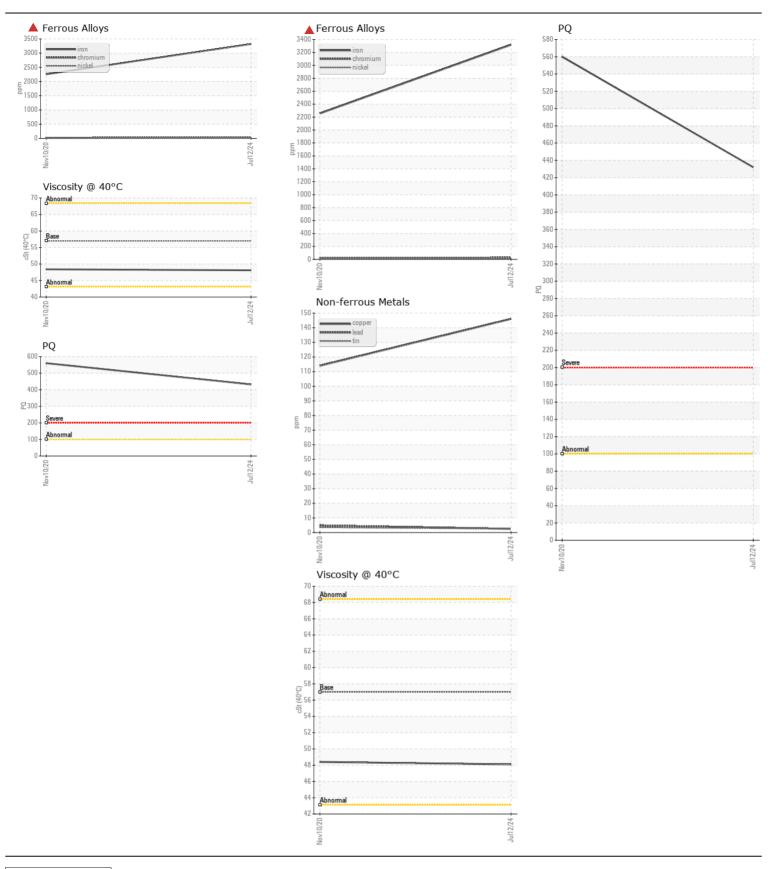
[HOWARD SHOCKEY]

JOHN DEERE 310G C043444 (S/N T0310GX940601)

Rear Differential

IOUN DEEDE UV GADD UVD/TDANG /

JOHN DEERE HY-GARD HYD/TRANS (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.	Sample Number		Client Info		JR0221306	JR0067116	
	Sample Date		Client Info		12 Jul 2024	10 Nov 2020	
	Machine Age	hrs	Client Info		7356	7081	
	Oil Age	hrs	Client Info		0	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Not Changd	Not Changd	
	Filter Changed		Client Info		Not Changd	N/A	
	Sample Status				SEVERE	SEVERE	
WEAR	PQ		ASTM D8184		432	560	
Gear wear is indicated.	Iron	ppm	ASTM D5185m	>500	▲ 3318	▲ 2256	
Gear wear is indicated.	Chromium	ppm	ASTM D5185m	>10	2 6	<u> </u>	
	Nickel	ppm	ASTM D5185m	>10	10	7	
	Titanium	ppm	ASTM D5185m		0	1	
	Silver	ppm	ASTM D5185m		0	0	
	Aluminum	ppm	ASTM D5185m	>25	3	3	
	Lead	ppm	ASTM D5185m	>25	2	5	
	Copper	ppm	ASTM D5185m	>100	146	<u> </u>	
	Tin	ppm	ASTM D5185m	>10	3	4	
	Vanadium	ppm	ASTM D5185m		0	<1	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>75	43	26	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	25	17	
	Water		WC Method	>.2	NEG	NEG	
	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	scalar	*Visual	>.2	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		10	10	
The oil is no longer serviceable as a result of the abnormal and/or severe wear.	Boron	ppm	ASTM D5185m	6	8	<1	
	Barium	ppm	ASTM D5185m	0	0	1	
	Molybdenum	ppm	ASTM D5185m	0	2	0	
	Manganese	ppm	ASTM D5185m		24	17	
	Magnesium	ppm	ASTM D5185m	145	92	88	
	Calcium	ppm	ASTM D5185m	3570	3358	3292	
	Phosphorus	ppm	ASTM D5185m		880	927	
	Zinc	ppm	ASTM D5185m	1640	1109	1080	
	Sulfur	ppm	ASTM D5185m		3595	3021	
	Visc @ 40°C	cSt	ASTM D445	57.0	48.1	48.4	





Certificate L2367

Laboratory Sample No.

Lab Number : 06238111

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0221306

Received

Tested Unique Number : 11126945 Diagnosed Test Package : CONST (Additional Tests: PQ)

: 16 Jul 2024 : 17 Jul 2024 : 18 Jul 2024 - Don Baldridge

JRE - STEPHENSON 245 YARDMASTER COURT STEPHENSON, VA US 22656-1761

Contact: PHIL DAUGHERTY pdaugherty@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.

T: x: F: (540)693-2588 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) Contact/Location: PHIL DAUGHERTY - JAMWIN