WEAR CONTAMINATION FLUID CONDITION

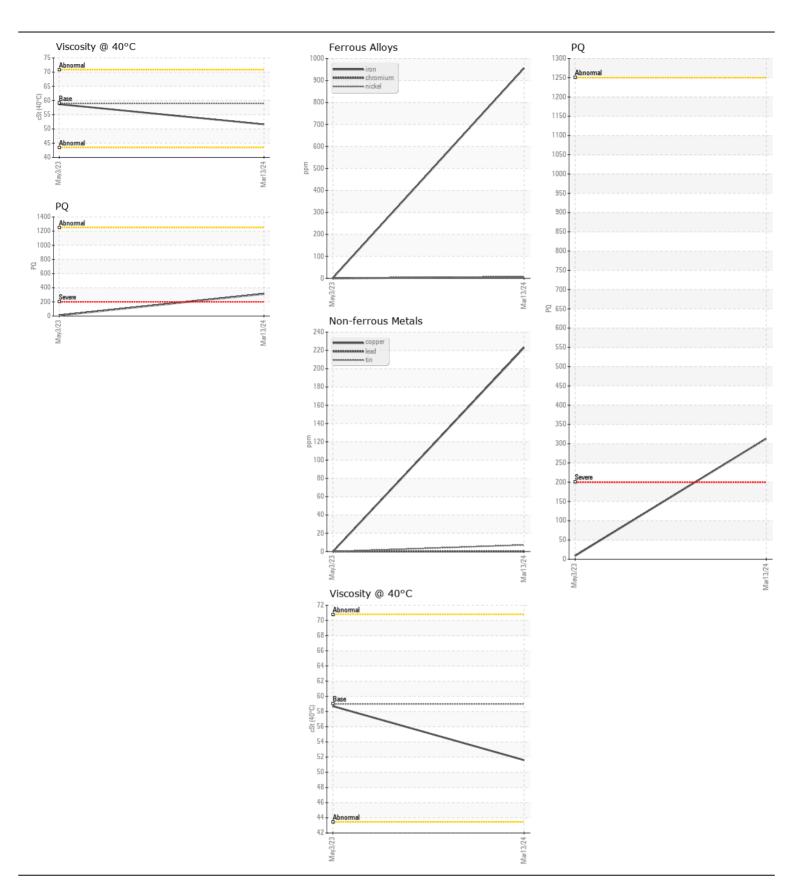
NORMAL NORMAL



## **JOHN DEERE 310E 1DW310EXKHF682023**

Component Center Final Drive

JOHN DEERE HY-GARD HYDR	AULIC/RAN	SMIS	SION (	- GAL	_)		
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0205637	JR0161235	
	Sample Date		Client Info		13 Mar 2024	03 May 2023	
	Machine Age	hrs	Client Info		7306	5460	
	Oil Age	hrs	Client Info		1846	500	
	Filter Age	hrs	Client Info		0	500	
	Oil Changed		Client Info		Not Changd	Changed	
	Filter Changed		Client Info		Changed	N/A	
	Sample Status				NORMAL	NORMAL	
WEAR	PQ		ASTM D8184	>1250	313	9	
All component wear rates are normal.	Iron	ppm	ASTM D5185m		956	2	
	Chromium	ppm	ASTM D5185m		6	<1	
	Nickel	ppm	ASTM D5185m		5	0	
	Titanium	ppm	ASTM D5185m	2.10	<1	0	
	Silver	ppm	ASTM D5185m		0	0	
	Aluminum	ppm	ASTM D5185m	>40	5	0	
	Lead	ppm	ASTM D5185m		0	0	
	Copper	ppm	ASTM D5185m		223	0	
	Tin	ppm	ASTM D5185m		7	0	
	Vanadium	ppm	ASTM D5185m		0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION							
CONTAMINATION	Silicon	ppm	ASTM D5185m		12	6	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		2	<1	
	Water		WC Method		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	>0.075	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>51	3	<1	
The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185m		15	<1	
	Barium	ppm	ASTM D5185m		<1	0	
	Molybdenum	ppm	ASTM D5185m		3	<1	
	Manganese	ppm	ASTM D5185m		11	<1	
	Magnesium	ppm	ASTM D5185m		80	97	
	Calcium	ppm	ASTM D5185m		3237	3304	
	Phosphorus	ppm	ASTM D5185m		1017	946	
	Zinc	ppm	ASTM D5185m		1184	1214	
	Sulfur	ppm	ASTM D5185m		4109	3484	
	Visc @ 40°C	cSt	ASTM D445	59	51.6	58.7	
D						0114510	





Laboratory

Sample No.

Lab Number : 06122672 Unique Number: 10936823

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0205637 Received : 19 Mar 2024 Tested

Diagnosed Test Package : CONST ( Additional Tests: PQ )

: 20 Mar 2024 : 21 Mar 2024 - Wes Davis

JRE - CHARLOTTE 9550 STATESVILLE ROAD CHARLOTTE, NC US 28269

Contact: CHARLOTTE SHOP myoung@jamesriverequipment.com

T: (704)597-0211 F: (704)596-6198

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)