

## Machine Id

## JOHN DEERE 310E 1DW310ETLGF678170

**Front Differential** 

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

RECOMMENDATION	
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No corrective action is recommended at this time. Resample at the next service interval to monitor.

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Bearing and/or bushing wear is indicated. All other component wear rates are normal.

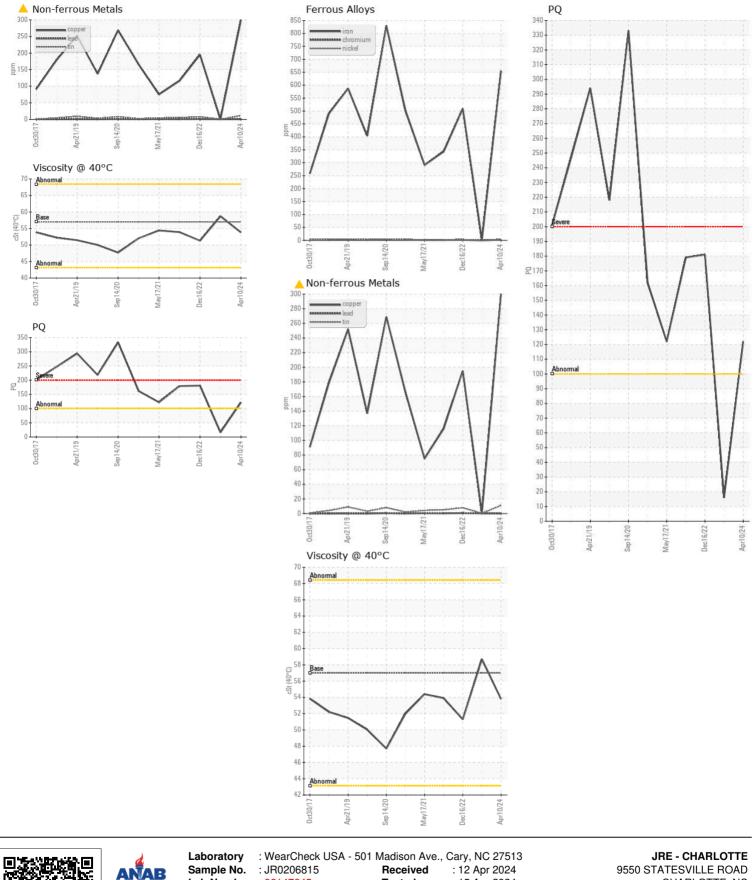
## CONTAMINATION

There is no indication of any contamination in the oil.

## **FLUID CONDITION**

The condition of the oil is acceptable for the time in service.

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Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0206815	JR0162310	JR0143327
Sample Date		Client Info		10 Apr 2024	30 May 2023	16 Dec 2022
Machine Age	hrs	Client Info		7317	6732	6295
Oil Age	hrs	Client Info		6880	6732	500
Filter Age	hrs	Client Info		0	0	500
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Filter Changed		Client Info		Changed	Not Changd	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL
				100	10	101
PQ		ASTM D8184	500	122	16	181
Iron	ppm	ASTM D5185m	>500	655	1	509
Chromium	ppm	ASTM D5185m	>10	2	0	2
Nickel	ppm	ASTM D5185m	>10	1	0	2
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	05	0	0	0
Aluminum	ppm	ASTM D5185m	>25	4	<1	4
Lead	ppm	ASTM D5185m	>25	0	<1	<1
Copper	ppm	ASTM D5185m	>100	<b>▲</b> 300	<1	195
Tin	ppm	ASTM D5185m	>10	▲ 11	<1	8
Vanadium	ppm	ASTM D5185m	NONE	0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>75	14	6	12
Potassium	ppm	ASTM D5185m	>20	0	<1	<1
Water		WC Method	>.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>.2	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m		4	1	2
Boron	ppm	ASTM D5185m	6	5	0	4
Barium	ppm	ASTM D5185m	0	<1	0	0
Molybdenum	ppm	ASTM D5185m	0	2	<1	2
Manganese	ppm	ASTM D5185m		11	<1	8
Magnesium	ppm	ASTM D5185m	145	97	99	103
Calcium	ppm	ASTM D5185m	3570	3465	3455	3591
Phosphorus	ppm	ASTM D5185m	1290	1015	965	1000
	nom	ASTM D5185m	1640	1196	1212	1241
Zinc	ppm	ASTIVI DUTOJITI	1040	1100		
Zinc Sulfur	ppm	ASTM D5185m	1040	3885	4015	4038



Lab Number : 06147645 Tested CHARLOTTE, NC : 15 Apr 2024 Diagnosed Unique Number : 10977723 : 16 Apr 2024 - Don Baldridge US 28269 Test Package : CONST (Additional Tests: PQ) Contact: CHARLOTTE SHOP Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. myoung@jamesriverequipment.com \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (704)597-0211 F: (704)596-6198 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)