

JOHN DEERE 310E 1DW310ETLGF678170

**Center Differential** 

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

R	EC	OMN	<u>IEND</u>	ATIO	N

No corrective action is recommended at this time. We recommend an early resample to monitor this condition.

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Bearing and/or gear wear is indicated.

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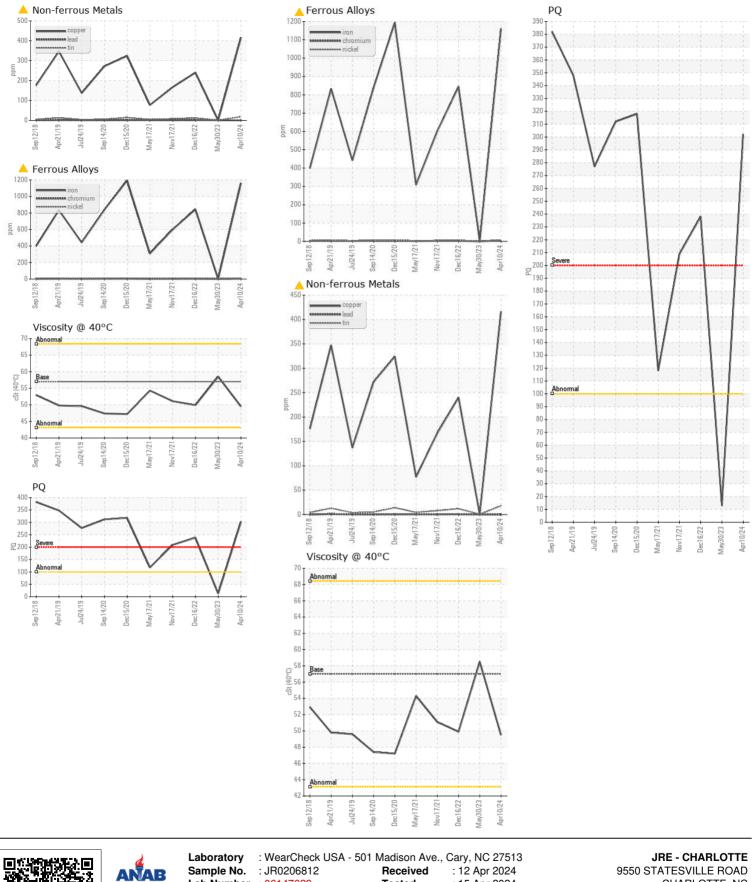
## **CONTAMINATION**

There is no indication of any contamination in the oil.

	FL	UID	CON	<b>IDITION</b>	
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The condition of the oil is acceptable for the time in service.

	ANS ( G	AL)					
	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		JR0206812	JR0162307	JR0143323
	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	ABNORMAL
	PQ		ASTM D8184		302	13	238
	Iron	ppm	ASTM D0104 ASTM D5185m	>500	<u> </u>	2	▲ 844
	Chromium	ppm	ASTM D5185m	>10	4	0	3
	Nickel	ppm	ASTM D5185m	>10	2	0	2
	Titanium	ppm	ASTM D5185m	210	0	<1	<1
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>25	5	<1	6
	Lead	ppm	ASTM D5185m	>25	0	0	▲ <1
	Copper	ppm	ASTM D5185m	>100	416	<1	▲ 240
	Tin	ppm	ASTM D5185m	>10	▲ 18	<1	▲ 12
	Vanadium	ppm	ASTM D5185m	210	0	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	MODER
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Silicon	ppm	ASTM D5185m	>75	21	6	17
	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	3
	Boron	ppm	ASTM D5185m	6	8	0	6
	Barium	ppm	ASTM D5185m	0	2	0	<1
	Molybdenum	ppm	ASTM D5185m	0	4	<1	3
	Manganese	ppm	ASTM D5185m		13	<1	10
	Magnesium	ppm	ASTM D5185m	145	98	97	105
	Calcium	ppm	ASTM D5185m	3570	3489	3456	3692
	Phosphorus	ppm	ASTM D5185m	1290	1049	953	1026
	Zinc	ppm	ASTM D5185m	1640	1217	1214	1273
	Sulfur	ppm	ASTM D5185m		3971	3968	4176
	Visc @ 40°C	cSt	ASTM D445	57.0	49.5	58.5	49.9



Lab Number : 06147629 Tested CHARLOTTE, NC : 15 Apr 2024 US 28269 : 16 Apr 2024 - Don Baldridge Unique Number : 10977707 Diagnosed 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)