

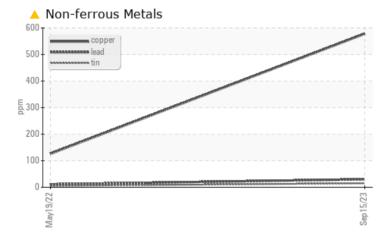
PROBLEM SUMMARY

Sample Rating Trend WEAR

Area [W46585] Machine Id JOHN DEERE 310E 1DW310EXPMF712243 Component Center Differential Fluid

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

COMPONENT CONDITION SUMMARY



RECOMMENDATION

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS							
Sample Status				ABNORMAL	NORMAL		
Lead	ppm	ASTM D5185m	>25	<u> </u>	11		
Copper	ppm	ASTM D5185m	>100	<u> </u>	126		
Tin	ppm	ASTM D5185m	>10	<u> </u>	5		

Customer Id: JAMASH Sample No.: JR0179982 Lab Number: 05963716 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data: Angela Borella +1 800-237-1369 angela.borella@wearcheckusa.com

To change component or sample information: Customer Service +1 1-800-237-1369 <u>customerservice@wearcheck.com</u>

RECOMMENDED ACTIONS						
Action	Status	Date	Done By	Description		
Resample			?	We recommend an early resample to monitor this condition.		

HISTORICAL DIAGNOSIS

19 May 2022 Diag: Don Baldridge

NORMAL



The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.Metal levels are typical for a new component breaking in. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.





OIL ANALYSIS REPORT

Sample Rating Trend

limit/base

method

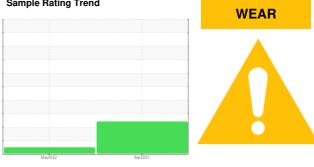


Area [W46585] **JOHN DEERE 310E 1DW310EXPMF712243** Component

Center Differential Iuid

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

SAMPLE INFORMATION



history1

history2

current

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Recommendation

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

🔺 Wear

Copper, lead and tin ppm levels are abnormal. Thrust washer and/or bearing/bushing wear is indicated.

Contamination

There is no indication of any contamination in the oil.

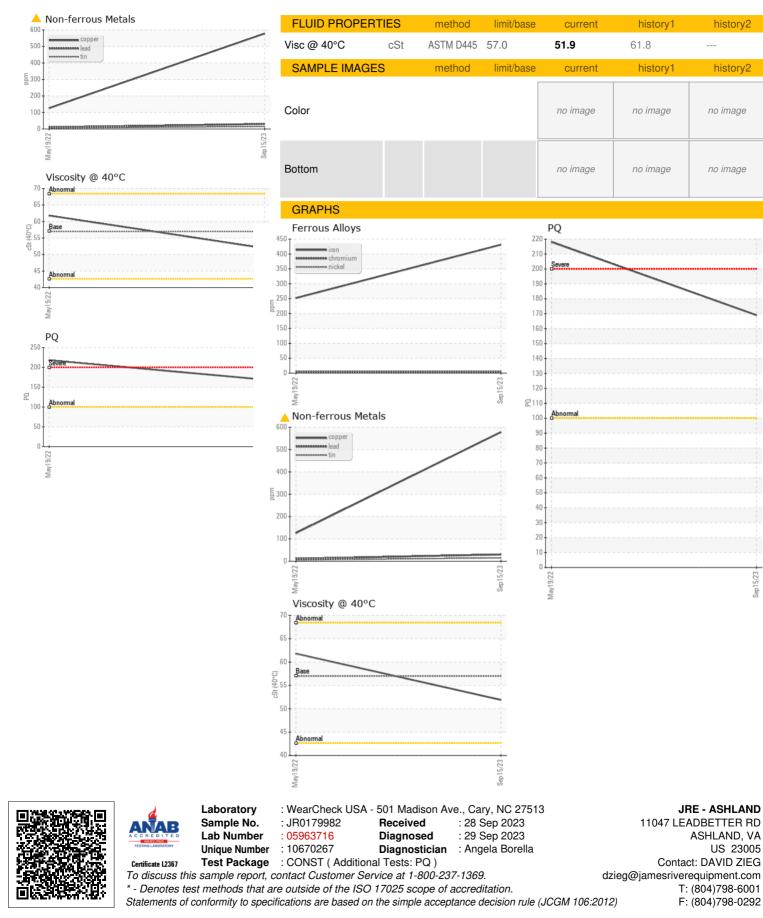
Fluid Condition

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Sample Number		Client Info		JR0179982	JR0124356	
Sample Date		Client Info		15 Sep 2023	19 May 2022	
Machine Age	hrs	Client Info		2016	501	
Oil Age	hrs	Client Info		0	501	
Oil Changed		Client Info		Changed	Changed	
Sample Status				ABNORMAL	NORMAL	
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		169	218	
Iron	ppm	ASTM D5185m	>500	431	252	
Chromium	ppm	ASTM D5185m	>10	3	3	
Nickel	ppm	ASTM D5185m	>10	6	6	
Titanium	ppm	ASTM D5185m		<1	<1	
Silver	ppm	ASTM D5185m		0	<1	
Aluminum	ppm	ASTM D5185m	>25	5	4	
Lead	ppm	ASTM D5185m		▲ 30	11	
Copper	ppm	ASTM D5185m	>100	<u> </u>	126	
Tin	ppm	ASTM D5185m		▲ 15	5	
Vanadium	ppm	ASTM D5185m	210	0	0	
Cadmium	ppm	ASTM D5185m		0	0	
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ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	6	23	107	
Barium	ppm	ASTM D5185m	0	5	0	
Molybdenum	ppm	ASTM D5185m	0	1	<1	
Manganese	ppm	ASTM D5185m		22	48	
Magnesium	ppm	ASTM D5185m	145	95	25	
Calcium	ppm	ASTM D5185m	3570	3714	3584	
Phosphorus	ppm	ASTM D5185m	1290	1178	1183	
Zinc	ppm	ASTM D5185m	1640	1451	1422	
Sulfur	ppm	ASTM D5185m		4138	2825	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	20	16	
Sodium	ppm	ASTM D5185m		8	19	
Potassium	ppm	ASTM D5185m	>20	2	<1	
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	MODER	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
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	
Free Water	scalar	*Visual		NEG	NEG	



OIL ANALYSIS REPORT



Sep 15/23