**WEAR CONTAMINATION FLUID CONDITION**  **ABNORMAL NORMAL NORMAL** 

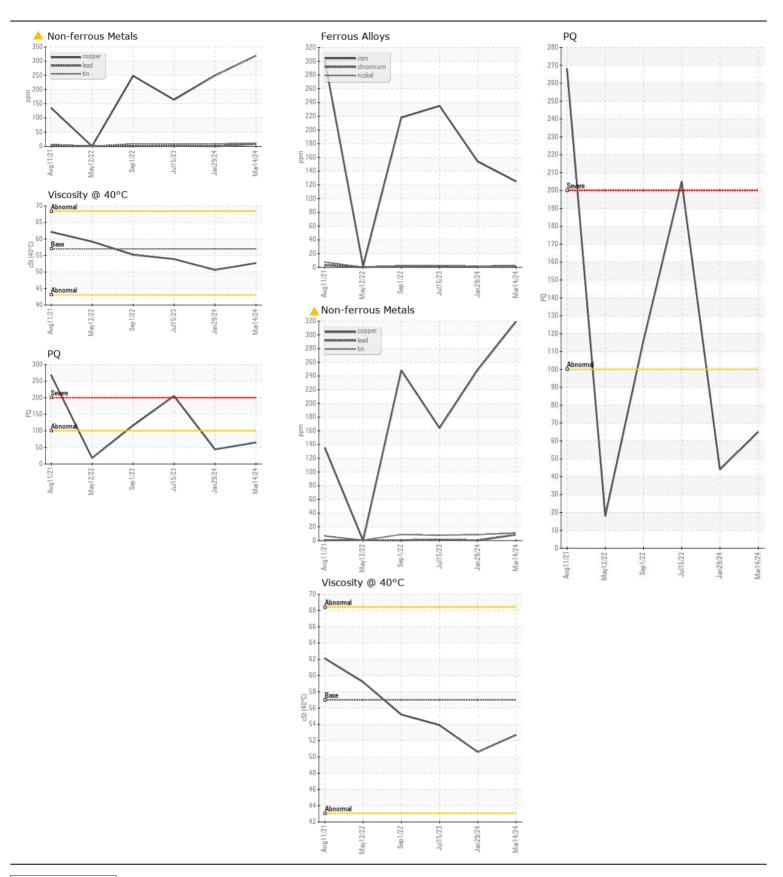


[W65260-1]

## **JOHN DEERE 310E 1DW310EXVMF710644**

Front Differential

No corrective action is recommended at this time. We recommend an early resample to monitor this condition.  Sample Number  Sample Date  Machine Age   hrs   Oil Age   hrs   Filter Age   hrs   Oil Changed   Filter Changed   Sample Status  WEAR  Bearing and/or bushing wear is indicated.  PQ  Iron   ppm   Chromium   ppm	Client Info ASTM D8184 ASTM D5185m ASTM D5185m	>500	JR0206353 14 Mar 2024 3302 0 0 Not Changd Not Changd ABNORMAL	History1 JR0203646 29 Jan 2024 2640 2060 0 N/A Changed ABNORMAL	JR0170697 15 Jul 2023 2640 2060 0 Not Chango ABNORMAL
early resample to monitor this condition.  Sample Date  Machine Age hrs Oil Age hrs Filter Age hrs Oil Changed Filter Changed Sample Status  WEAR  PQ  Bearing and/or bushing wear is indicated.  Rample Date  Machine Age hrs Oil Age hrs Filter Age hrs Oil Changed Filter Changed Sample Status	Client Info Client Info Client Info Client Info Client Info ASTM D8184 ASTM D5185m	>500	3302 0 0 Not Changd Not Changd ABNORMAL	2640 2060 0 N/A Changed ABNORMAL	2640 2060 0 Not Chango Not Chango ABNORMAL
Machine Age hrs Oil Age hrs Filter Age hrs Oil Changed Filter Changed Sample Status  WEAR  Bearing and/or bushing wear is indicated.  PQ Iron ppm	Client Info Client Info Client Info Client Info ASTM D8184 ASTM D5185m	>500	0 Not Changd Not Changd ABNORMAL	2060 0 N/A Changed ABNORMAL	2060 0 Not Chango Not Chango ABNORMAL
Filter Age hrs Oil Changed Filter Changed Sample Status  WEAR  PQ  Bearing and/or bushing wear is indicated.  Filter Age hrs Oil Changed Filter Changed Sample Status	Client Info Client Info Client Info ASTM D8184 ASTM D5185m	>500	0 Not Changd Not Changd ABNORMAL	0 N/A Changed ABNORMAL	0 Not Chango Not Chango ABNORMAI
Oil Changed Filter Changed Sample Status  WEAR  PQ  Bearing and/or bushing wear is indicated.  Pompher Status  Pompher Status	Client Info Client Info ASTM D8184 ASTM D5185m	>500	Not Changd Not Changd ABNORMAL	N/A Changed ABNORMAL	Not Chango Not Chango ABNORMA
Filter Changed Sample Status  WEAR  PQ  Bearing and/or bushing wear is indicated.  Propher ppm	Client Info  ASTM D8184  ASTM D5185m	>500	Not Changd ABNORMAL	Changed ABNORMAL	Not Change ABNORMA
WEAR  PQ  Bearing and/or bushing wear is indicated.  PQ  Iron  ppm	ASTM D8184 ASTM D5185m	>500	ABNORMAL	ABNORMAL	ABNORMA
WEAR  PQ  Iron ppm	ASTM D5185m	>500			
Bearing and/or bushing wear is indicated.	ASTM D5185m	>500	65	44	205
Bearing and/or bushing wear is indicated.		>500			205
<u> </u>	ASTM D5185m		125	154	235
		>10	1	<1	2
Nickel ppm	ASTM D5185m	>10	2	2	3
<b>Titanium</b> ppm	ASTM D5185m		<1	<1	0
Silver ppm	ASTM D5185m		0	0	0
<b>Aluminum</b> ppm	ASTM D5185m		3	4	3
<b>Lead</b> ppm	ASTM D5185m	>25	8	<1	1
Copper ppm	ASTM D5185m		▲ 319	<u> </u>	<u>164</u>
<b>Tin</b> ppm	ASTM D5185m	>10	<u></u> 11	8	8
<b>Vanadium</b> ppm	ASTM D5185m		0	0	0
White Metal scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION Silicon ppm	ASTM D5185m	>75	11	17	14
There is no indication of any contamination in the oil.	ASTM D5185m	>20	2	0	2
Water	WC Method	>.2	NEG	NEG	NEG
Silt scalar	*Visual	NONE	NONE	NONE	NONE
<b>Debris</b> scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt scalar	*Visual	NONE	NONE	NONE	NONE
Appearance scalar	*Visual	NORML	NORML	NORML	NORM
Odor scalar	*Visual	NORML	NORML	NORML	NORM
Emulsified Water scalar	*Visual	>.2	NEG	NEG	NEG
FLUID CONDITION ppm	ASTM D5185m		1	4	6
The condition of the oil is acceptable for the time in service.  Boron ppm	ASTM D5185m		8	8	12
Barium ppm	ASTM D5185m		0	<1	0
Molybdenum ppm	ASTM D5185m	0	<1	0	<1
Manganese ppm	ASTM D5185m		5	14	28
Magnesium ppm	ASTM D5185m		66	90	93
Calcium ppm	ASTM D5185m		1941	3275	3766
Phosphorus ppm	ASTM D5185m		766	999	1122
Zinc ppm	ASTM D5185m	1640	766	1201	1337
Sulfur ppm Visc @ 40°C cSt	ASTM D5185m ASTM D445	E7.0	2220 52.7	3361 50.6	4518 53.9





Laboratory Sample No.

Lab Number : 06122703

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0206353

Received **Tested** 

Unique Number: 10936854 Diagnosed

: 19 Mar 2024

: 20 Mar 2024 : 21 Mar 2024 - Don Baldridge

Test Package : CONST ( Additional Tests: PQ ) 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)

**CARLTON'S BACKHOE** 

9550 STATESVILLE ROAD CHARLOTTE, NC US 28269

Contact: LEO

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