



WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>



Machine Id  
**JOHN DEERE 310E 1DW310EXHMF708946**  
Component  
**Center Differential**  
Fluid  
**TDH FLUID SAE 75W80 (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0219478</b>	JR0178117	JR0150658
Sample Date		Client Info		<b>15 Jun 2024</b>	07 Sep 2023	11 Nov 2022
Machine Age	hrs	Client Info		<b>4517</b>	3608	2590
Oil Age	hrs	Client Info		<b>4517</b>	2032	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Changed</b>	Not Changed	Not Changed
Filter Changed		Client Info		<b>Not Changed</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	SEVERE	NORMAL

### WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		<b>114</b>	209	80
Iron	ppm	ASTM D5185m	>500	<b>451</b>	750	129
Chromium	ppm	ASTM D5185m	>10	<b>1</b>	2	<1
Nickel	ppm	ASTM D5185m	>10	<b>2</b>	3	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>25	<b>2</b>	0	2
Lead	ppm	ASTM D5185m	>25	<b>0</b>	5	<1
Copper	ppm	ASTM D5185m	>100	<b>213</b>	▲ 441	84
Tin	ppm	ASTM D5185m	>10	<b>5</b>	▲ 10	3
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

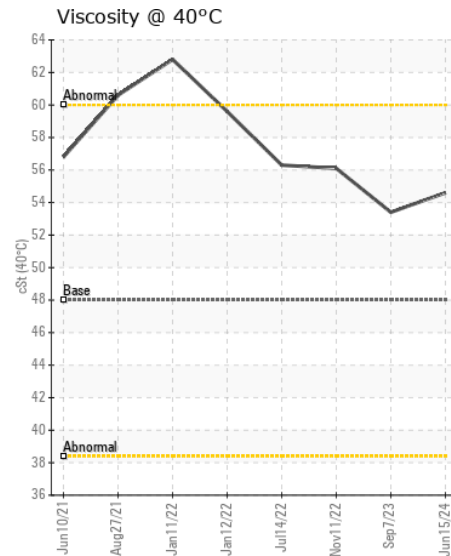
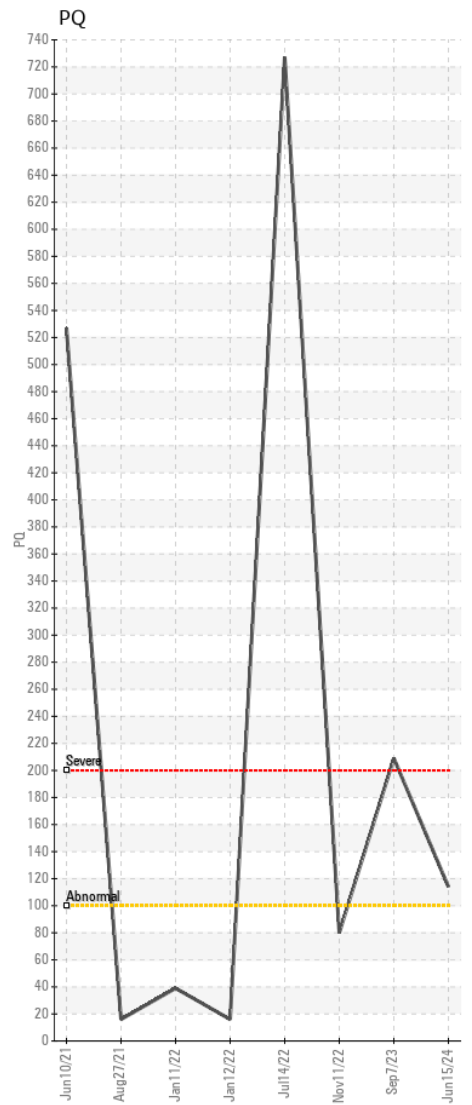
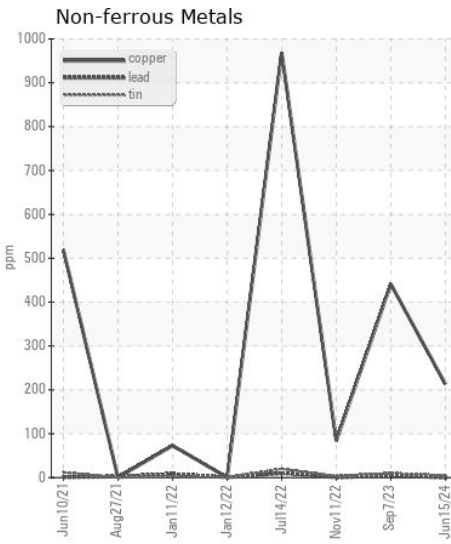
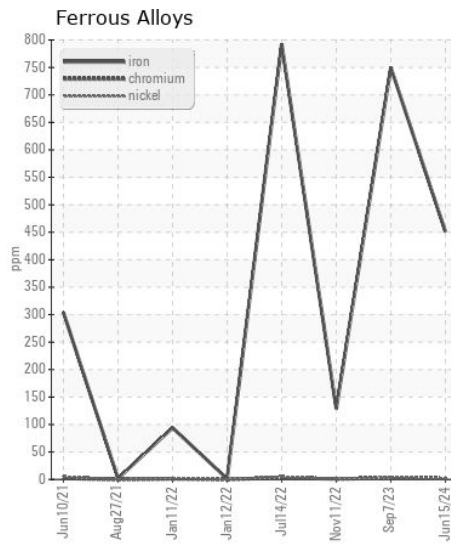
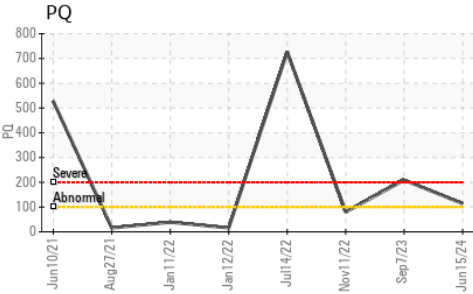
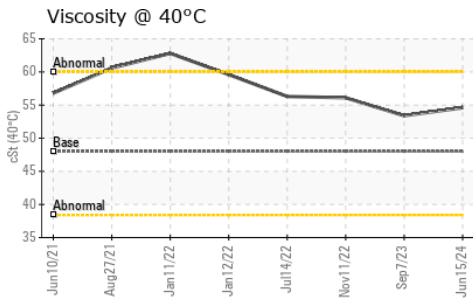
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	<b>11</b>	14	9
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	2	0
Water		WC Method	>.2	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</b>	MODER	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>.2	<b>NEG</b>	NEG	NEG

### FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		<b>0</b>	3	3
Boron	ppm	ASTM D5185m	10	<b>7</b>	9	9
Barium	ppm	ASTM D5185m	10	<b>1</b>	0	0
Molybdenum	ppm	ASTM D5185m	10	<b>2</b>	3	<1
Manganese	ppm	ASTM D5185m		<b>4</b>	10	7
Magnesium	ppm	ASTM D5185m	100	<b>91</b>	94	94
Calcium	ppm	ASTM D5185m	3500	<b>3237</b>	3540	3504
Phosphorus	ppm	ASTM D5185m	1150	<b>995</b>	1018	996
Zinc	ppm	ASTM D5185m	1150	<b>1225</b>	1249	1226
Sulfur	ppm	ASTM D5185m	5000	<b>3787</b>	4123	4117
Visc @ 40°C	cSt	ASTM D445	48	<b>54.6</b>	53.4	56.1



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0219478 **Received** : 18 Jun 2024  
**Lab Number** : 06213777 **Tested** : 20 Jun 2024  
**Unique Number** : 11086641 **Diagnosed** : 20 Jun 2024 - Sean Felton  
**Test Package** : CONST ( Additional Tests: PQ )

**JRE - CHARLOTTE**  
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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)