



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



Machine Id  
**JOHN DEERE 310E 1DW310EXAMF708863**  
Component  
**Transmission (Auto)**  
Fluid  
**JOHN DEERE HD SynTran (16 GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0218500</b>	JR0211101	JR0199053
Sample Date		Client Info		<b>09 Jul 2024</b>	25 Mar 2024	04 Jan 2024
Machine Age	hrs	Client Info		<b>7628</b>	7036	6583
Oil Age	hrs	Client Info		<b>7175</b>	453	2000
Filter Age	hrs	Client Info		<b>7175</b>	453	2000
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	Changed
Filter Changed		Client Info		<b>Not Changd</b>	Not Changd	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

PQ		ASTM D8184	>50	<b>22</b>	21	39
Iron	ppm	ASTM D5185m	>160	<b>61</b>	48	82
Chromium	ppm	ASTM D5185m	>5	<b>&lt;1</b>	0	<1
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m	>5	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m	>50	<b>2</b>	1	2
Lead	ppm	ASTM D5185m	>50	<b>&lt;1</b>	<1	2
Copper	ppm	ASTM D5185m	>225	<b>3</b>	3	4
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

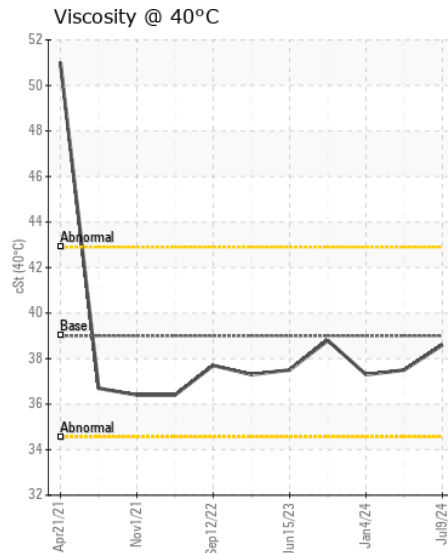
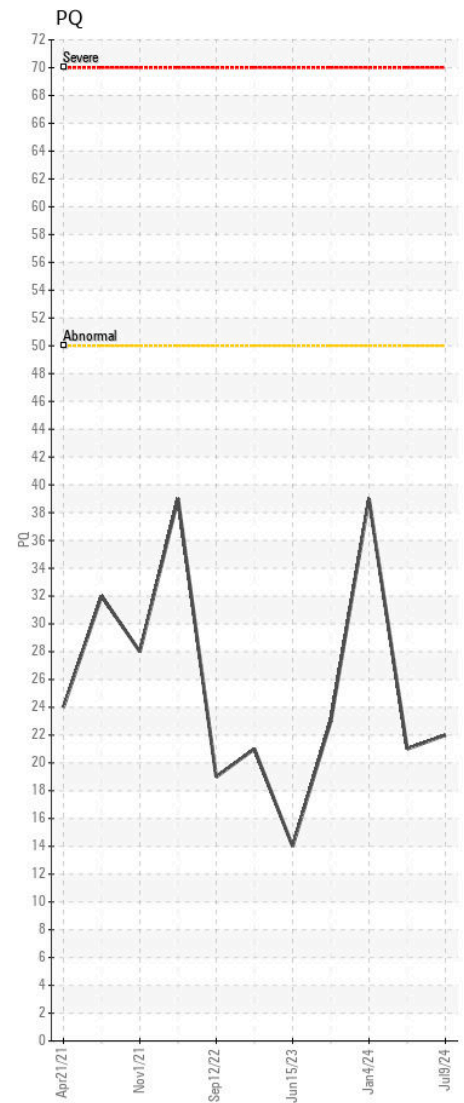
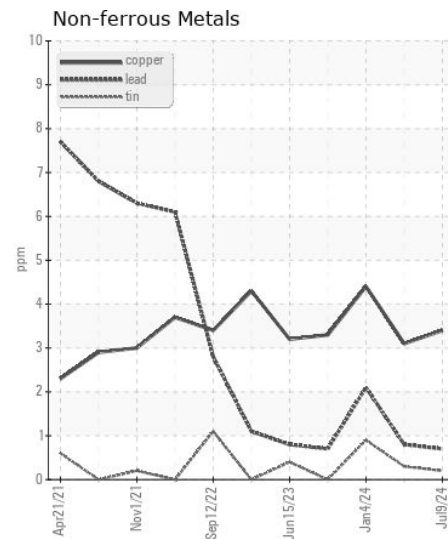
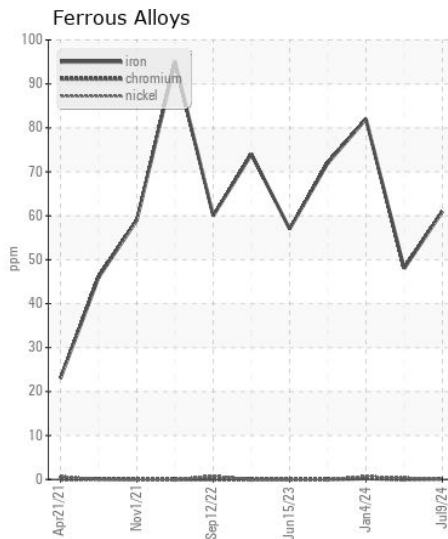
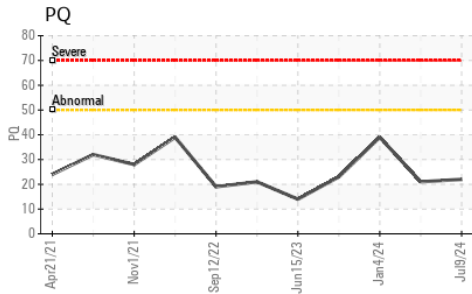
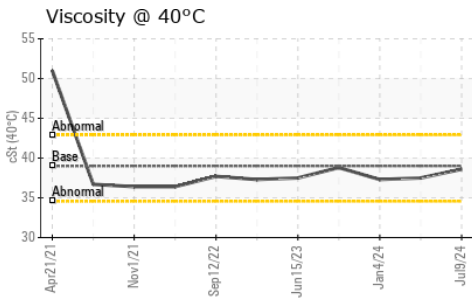
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185m	>20	<b>2</b>	1	2
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	2	2
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	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	>0.1	<b>NEG</b>	NEG	NEG

### FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		<b>0</b>	2	0
Boron	ppm	ASTM D5185m	168	<b>132</b>	121	119
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	1
Magnesium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Calcium	ppm	ASTM D5185m	33	<b>35</b>	56	48
Phosphorus	ppm	ASTM D5185m	330	<b>266</b>	244	283
Zinc	ppm	ASTM D5185m	0	<b>6</b>	0	0
Sulfur	ppm	ASTM D5185m	980	<b>231</b>	245	167
Visc @ 40°C	cSt	ASTM D445	39	<b>38.6</b>	37.5	37.3



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0218500 **Received** : 11 Jul 2024  
**Lab Number** : 06233444 **Tested** : 12 Jul 2024  
**Unique Number** : 11116937 **Diagnosed** : 12 Jul 2024 - Wes Davis  
**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)

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