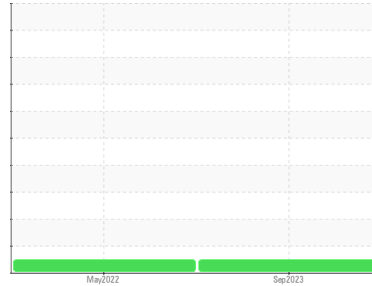


# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**


Area  
**[W46585]**  
 Machine Id  
**JOHN DEERE 310E 1DW310EXPMF712243**  
 Component  
**Transmission (Auto)**  
 Fluid  
**JOHN DEERE HD SynTran (--- GAL)**


**DIAGNOSIS**
**Recommendation**

Resample at the next service interval to monitor.

**Wear**

All component wear rates are normal.

**Contamination**

There is no indication of any contamination in the fluid.

**Fluid Condition**

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

**SAMPLE INFORMATION**

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>JR0179980</b>	JR0124353	---
Sample Date	Client Info	<b>15 Sep 2023</b>	19 May 2022	---
Machine Age	hrs Client Info	<b>2016</b>	501	---
Oil Age	hrs Client Info	<b>0</b>	501	---
Oil Changed	Client Info	<b>Changed</b>	Not Changd	---
Sample Status		<b>NORMAL</b>	NORMAL	---

**WEAR METALS**

method	limit/base	current	history1	history2
PQ	ASTM D8184 >50	<b>25</b>	29	---
Iron	ppm ASTM D5185m >160	<b>67</b>	24	---
Chromium	ppm ASTM D5185m >5	<b>&lt;1</b>	0	---
Nickel	ppm ASTM D5185m >5	<b>0</b>	0	---
Titanium	ppm ASTM D5185m	<b>&lt;1</b>	<1	---
Silver	ppm ASTM D5185m >5	<b>0</b>	<1	---
Aluminum	ppm ASTM D5185m >50	<b>&lt;1</b>	<1	---
Lead	ppm ASTM D5185m >50	<b>13</b>	11	---
Copper	ppm ASTM D5185m >225	<b>2</b>	2	---
Tin	ppm ASTM D5185m >10	<b>0</b>	<1	---
Vanadium	ppm ASTM D5185m	<b>0</b>	0	---
Cadmium	ppm ASTM D5185m	<b>0</b>	0	---

**ADDITIVES**

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 168	<b>132</b>	128	---
Barium	ppm ASTM D5185m	<b>3</b>	0	---
Molybdenum	ppm ASTM D5185m	<b>2</b>	2	---
Manganese	ppm ASTM D5185m	<b>1</b>	<1	---
Magnesium	ppm ASTM D5185m	<b>8</b>	6	---
Calcium	ppm ASTM D5185m 33	<b>144</b>	141	---
Phosphorus	ppm ASTM D5185m 330	<b>289</b>	298	---
Zinc	ppm ASTM D5185m 0	<b>47</b>	28	---
Sulfur	ppm ASTM D5185m 980	<b>578</b>	445	---

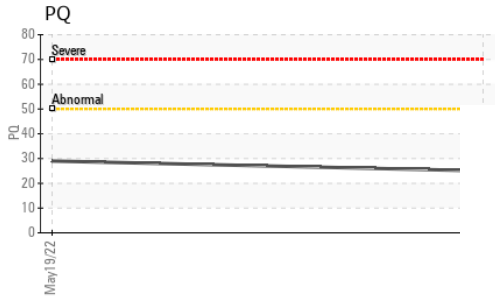
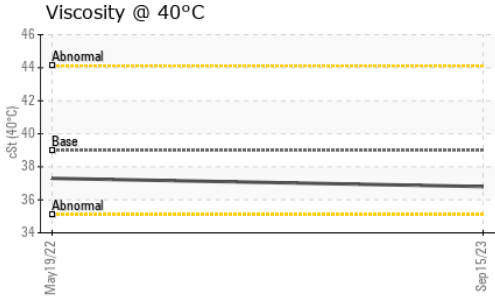
**CONTAMINANTS**

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >20	<b>5</b>	4	---
Sodium	ppm ASTM D5185m	<b>3</b>	4	---
Potassium	ppm ASTM D5185m >20	<b>3</b>	2	---

**VISUAL**

method	limit/base	current	history1	history2
White Metal	scalar *Visual NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar *Visual NONE	<b>NONE</b>	NONE	---
Precipitate	scalar *Visual NONE	<b>NONE</b>	NONE	---
Silt	scalar *Visual NONE	<b>NONE</b>	NONE	---
Debris	scalar *Visual NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar *Visual NONE	<b>NONE</b>	NONE	---
Appearance	scalar *Visual NORML	<b>NORML</b>	NORML	---
Odor	scalar *Visual NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar *Visual >0.1	<b>NEG</b>	NEG	---
Free Water	scalar *Visual	<b>NEG</b>	NEG	---

# OIL ANALYSIS REPORT



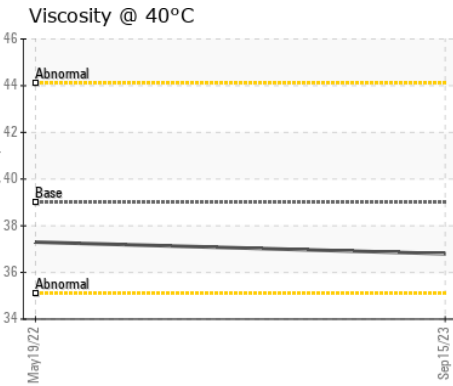
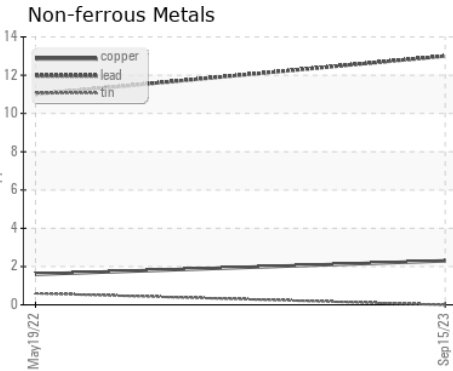
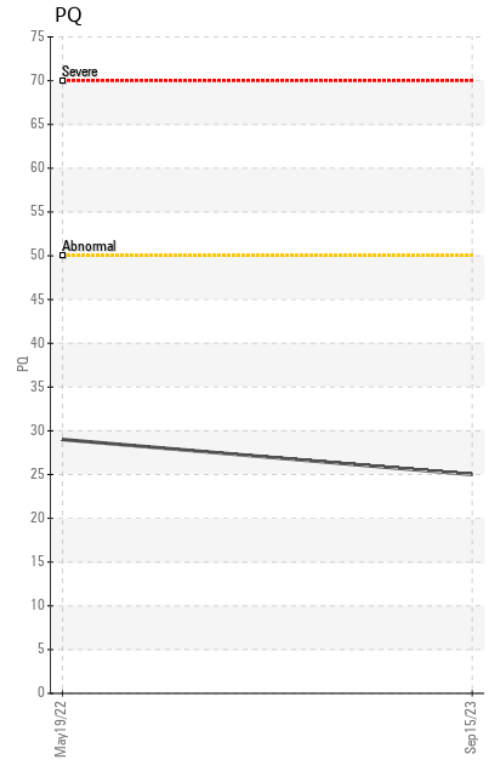
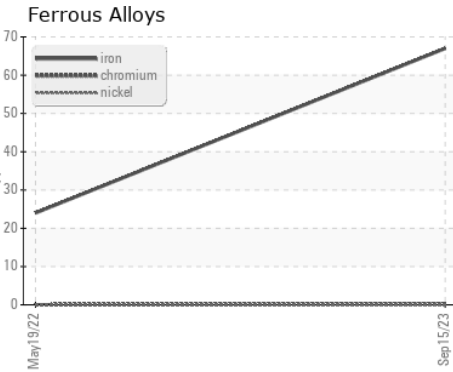
### FLUID PROPERTIES

method	limit/base	current	history1	history2
Visc @ 40°C	cSt ASTM D445 39	<b>36.8</b>	37.3	---

### SAMPLE IMAGES

method	limit/base	current	history1	history2
Color		no image	no image	no image
Bottom		no image	no image	no image

### GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0179980 **Received** : 28 Sep 2023  
**Lab Number** : 05963701 **Diagnosed** : 29 Sep 2023  
**Unique Number** : 10670252 **Diagnostician** : Angela Borella  
**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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