



WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id  
**JOHN DEERE 310SL 1T0310SLAKF356390**

Component  
**Transmission**

Fluid  
**JOHN DEERE HY-GARD HYD/TRANS (--- LTR)**

### RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0207798	JR0117545	---
Sample Date		Client Info		03 May 2024	14 Jan 2022	---
Machine Age	hrs	Client Info		1528	813	---
Oil Age	hrs	Client Info		715	813	---
Filter Age	hrs	Client Info		715	813	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				ABNORMAL	NORMAL	---

### WEAR

All component wear rates are normal.

PQ		ASTM D8184	>100	17	24	---
Iron	ppm	ASTM D5185m	>61	27	29	---
Chromium	ppm	ASTM D5185m	>10	0	<1	---
Nickel	ppm	ASTM D5185m		0	0	---
Titanium	ppm	ASTM D5185m		0	<1	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>20	5	4	---
Lead	ppm	ASTM D5185m	>9	2	2	---
Copper	ppm	ASTM D5185m	>100	29	17	---
Tin	ppm	ASTM D5185m	>3	0	0	---
Vanadium	ppm	ASTM D5185m		0	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

### CONTAMINATION

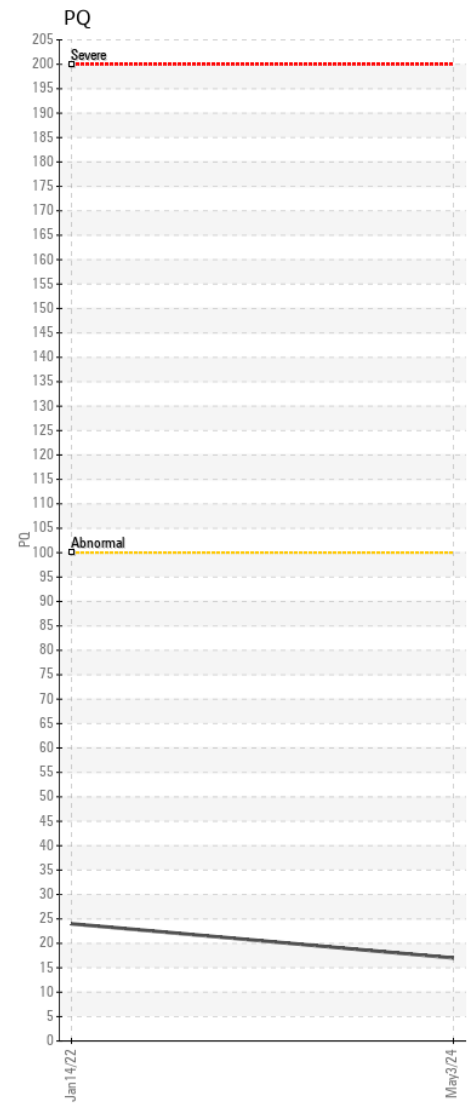
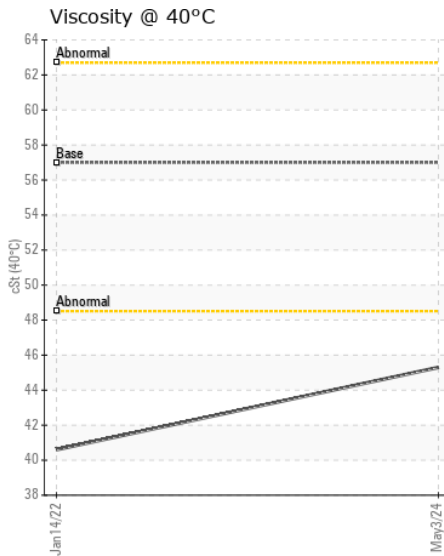
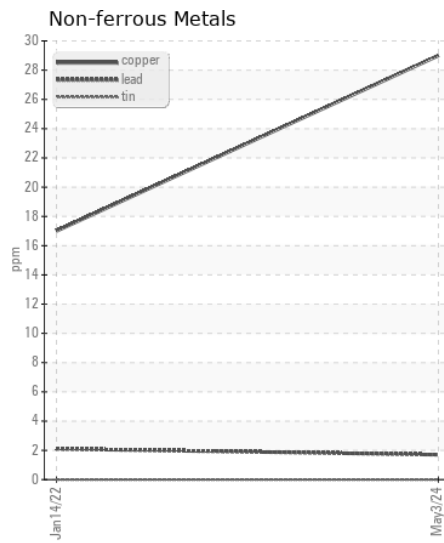
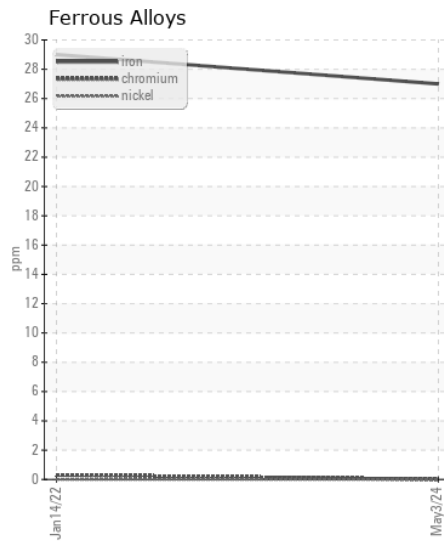
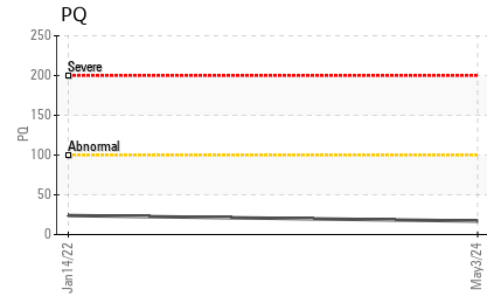
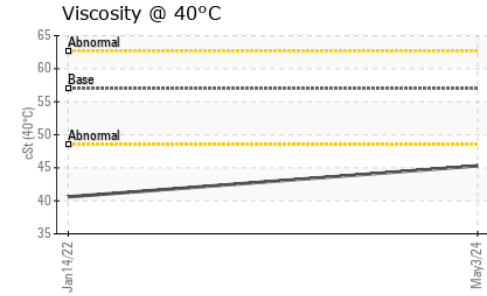
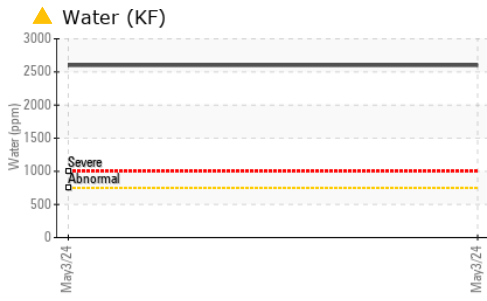
There is a light concentration of water present in the fluid.

Silicon	ppm	ASTM D5185m	>21	4	5	---
Potassium	ppm	ASTM D5185m	>20	2	3	---
Water	%	ASTM D6304	>0.075	▲ 0.260	---	---
ppm Water	ppm	ASTM D6304	>750	▲ 2600	---	---
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	>0.075	▲ 0.2%	NEG	---

### FLUID CONDITION

The condition of the fluid is suitable for further service.

Sodium	ppm	ASTM D5185m	>30	5	0	---
Boron	ppm	ASTM D5185m	6	11	18	---
Barium	ppm	ASTM D5185m	0	0	<1	---
Molybdenum	ppm	ASTM D5185m	0	0	<1	---
Manganese	ppm	ASTM D5185m		2	2	---
Magnesium	ppm	ASTM D5185m	145	92	79	---
Calcium	ppm	ASTM D5185m	3570	3519	3432	---
Phosphorus	ppm	ASTM D5185m	1290	1012	948	---
Zinc	ppm	ASTM D5185m	1640	1219	1149	---
Sulfur	ppm	ASTM D5185m		3896	3154	---
Visc @ 40°C	cSt	ASTM D445	57.0	45.3	40.6	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0207798 **Received** : 09 May 2024  
**Lab Number** : 06174748 **Tested** : 13 May 2024  
**Unique Number** : 11020801 **Diagnosed** : 13 May 2024 - Sean Felton  
**Test Package** : CONST ( Additional Tests: KF, PQ )

**JRE - ASHEVILLE**  
 101 BRUCE DRIVE  
 ASHEVILLE, NC  
 US 28806

Contact: Randy Warren  
 randy.warren@jamesriverequipment.com

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)

T: (528)667-0176  
 F: (828)667-4865