



**James River  
Equipment**

OIL ANALYSIS REPORT

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



Machine Id

**JOHN DEERE 310SG T0310SG943050**

Component

**Transmission (Manual)**

Fluid

**JOHN DEERE HY-GARD HYD/TRANS (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0223381</b>	JRMC399101	JRMC415764
Sample Date		Client Info		<b>14 Jul 2024</b>	28 Jan 2021	14 Aug 2017
Machine Age	hrs	Client Info		<b>739</b>	398	2794
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	N/A	Changed
Filter Changed		Client Info		<b>N/A</b>	N/A	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

PQ		ASTM D8184	>95	<b>15</b>	22	18
Iron	ppm	ASTM D5185m	>200	<b>9</b>	20	15
Chromium	ppm	ASTM D5185m	>5	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185m	>7	<b>0</b>	<1	<1
Aluminum	ppm	ASTM D5185m	>25	<b>2</b>	2	<1
Lead	ppm	ASTM D5185m	>45	<b>1</b>	7	6
Copper	ppm	ASTM D5185m	>225	<b>15</b>	43	42
Tin	ppm	ASTM D5185m	>10	<b>0</b>	2	2
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.

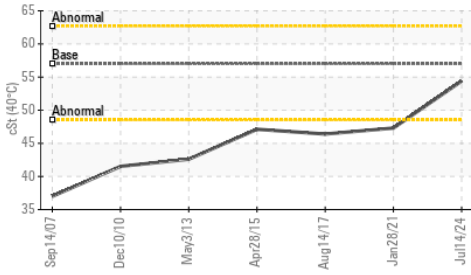
Silicon	ppm	ASTM D5185m	>125	<b>3</b>	4	3
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	0	2
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<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**

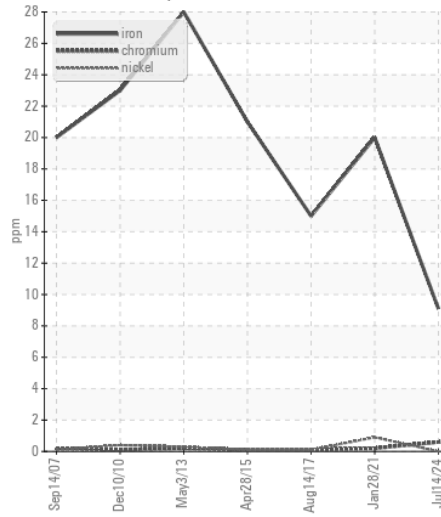
The condition of the fluid is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		<b>0</b>	<1	2
Boron	ppm	ASTM D5185m	6	<b>2</b>	5	2
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	0	<b>4</b>	3	1
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185m	145	<b>96</b>	92	50
Calcium	ppm	ASTM D5185m	3570	<b>3193</b>	2976	1682
Phosphorus	ppm	ASTM D5185m	1290	<b>1007</b>	999	664
Zinc	ppm	ASTM D5185m	1640	<b>1220</b>	1232	920
Sulfur	ppm	ASTM D5185m		<b>3154</b>	2952	2337
Visc @ 40°C	cSt	ASTM D445	57.0	<b>54.4</b>	47.3	46.4

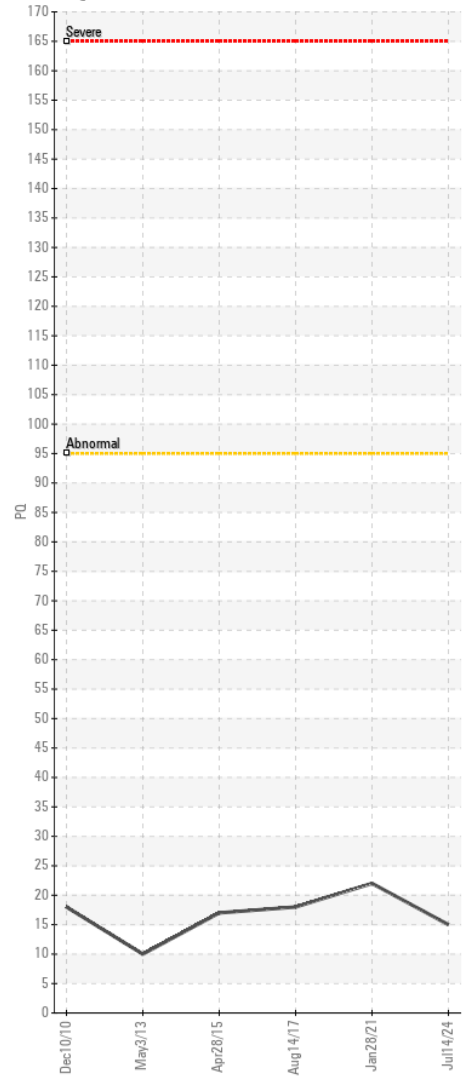
Viscosity @ 40°C



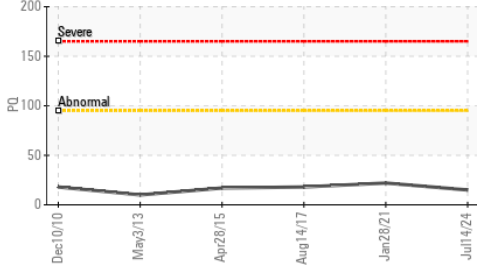
Ferrous Alloys



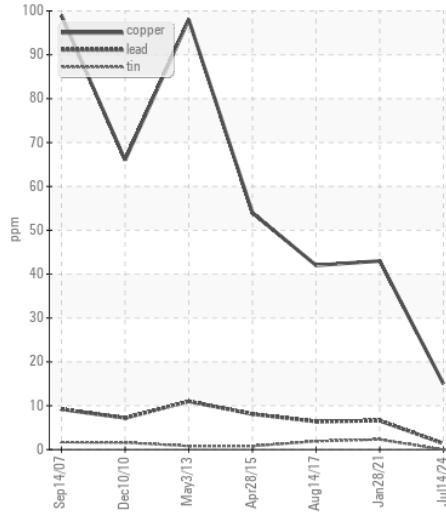
PQ



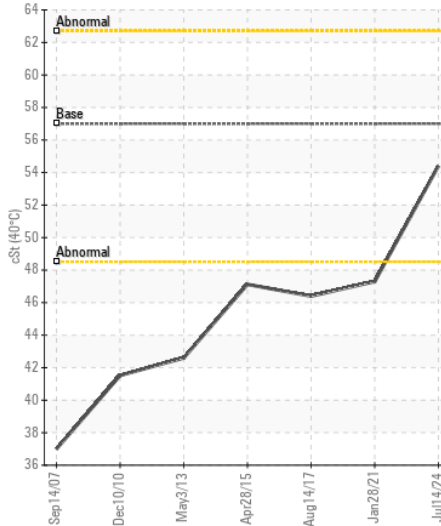
PQ



Non-ferrous Metals



Viscosity @ 40°C



Certificate L2367

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

Sample No. : JR0223381

Lab Number : 06235160

Unique Number : 11123994

Test Package : CONST ( Additional Tests: PQ )

Received : 12 Jul 2024

Tested : 15 Jul 2024

Diagnosed : 15 Jul 2024 - Wes Davis

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)

JRE - GREENSBORO

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