



OIL ANALYSIS REPORT

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

Area  
**[W8291]**  
Machine Id  
**JOHN DEERE 944K 1DW944KXLML703646**  
Component  
**Rear Right Final Drive**  
Fluid  
**JOHN DEERE HY-GARD HYD/TRANS (55 QTS)**

**RECOMMENDATION**

No corrective action is recommended at this time. We recommend an early resample to monitor this condition. ( Customer Sample Comment: W8291 )

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0183109</b>	JR0183354	JR0175643
Sample Date		Client Info		<b>21 Dec 2023</b>	06 Oct 2023	16 Jun 2023
Machine Age	hrs	Client Info		<b>4059</b>	3400	3021
Oil Age	hrs	Client Info		<b>2696</b>	2037	984
Filter Age	hrs	Client Info		<b>2000</b>	510	0
Oil Changed		Client Info		<b>N/A</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>N/A</b>	Not Changd	N/A
Sample Status				<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

**WEAR**

The copper level is abnormal. All other component wear rates are normal.

PQ		ASTM D8184	>1250	<b>17</b>	15	14
Iron	ppm	ASTM D5185m	>750	<b>23</b>	12	18
Chromium	ppm	ASTM D5185m	>9	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>40	<b>1</b>	0	0
Lead	ppm	ASTM D5185m	>15	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185m	>40	<b>▲ 157</b>	<b>▲ 132</b>	<b>▲ 92</b>
Tin	ppm	ASTM D5185m	>10	<b>0</b>	0	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	<1
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 oil.

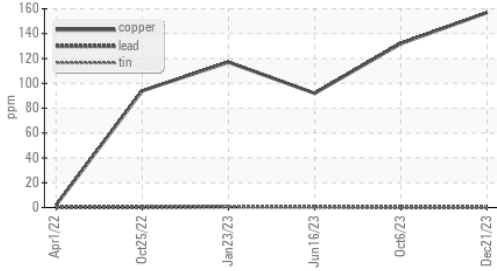
Silicon	ppm	ASTM D5185m	>75	<b>30</b>	28	24
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	1	0
Water		WC Method	>0.075	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.075	<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

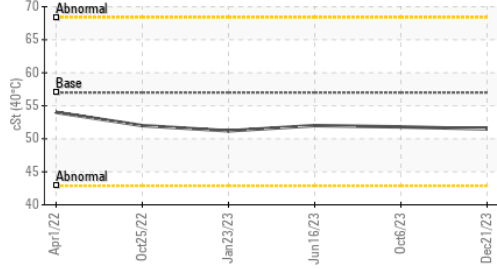
The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m	>51	<b>0</b>	0	2
Boron	ppm	ASTM D5185m	6	<b>4</b>	3	2
Barium	ppm	ASTM D5185m	0	<b>0</b>	3	0
Molybdenum	ppm	ASTM D5185m	0	<b>0</b>	0	<1
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	1
Magnesium	ppm	ASTM D5185m	145	<b>95</b>	95	100
Calcium	ppm	ASTM D5185m	3570	<b>3233</b>	3148	3510
Phosphorus	ppm	ASTM D5185m	1290	<b>1011</b>	996	1014
Zinc	ppm	ASTM D5185m	1640	<b>1145</b>	1176	1211
Sulfur	ppm	ASTM D5185m		<b>3933</b>	3839	4108
Visc @ 40°C	cSt	ASTM D445	57.0	<b>51.5</b>	51.8	52.0

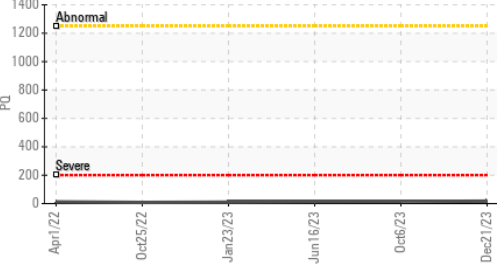
▲ Non-ferrous Metals



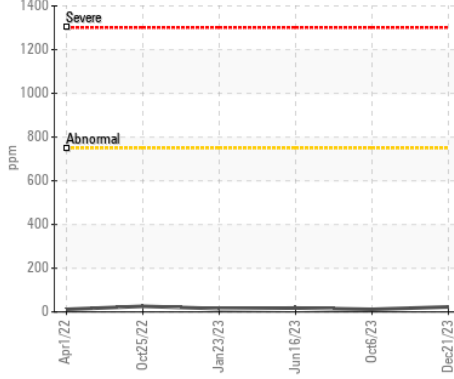
Viscosity @ 40°C



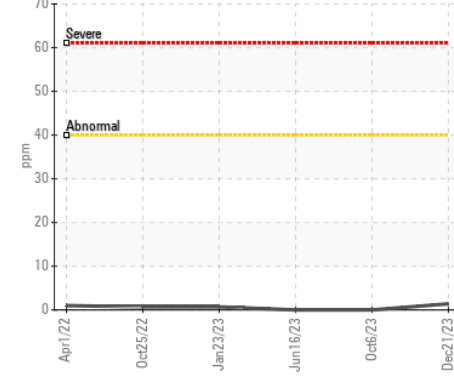
PQ



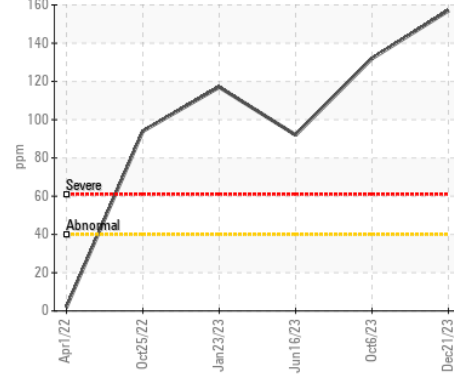
Iron (ppm)



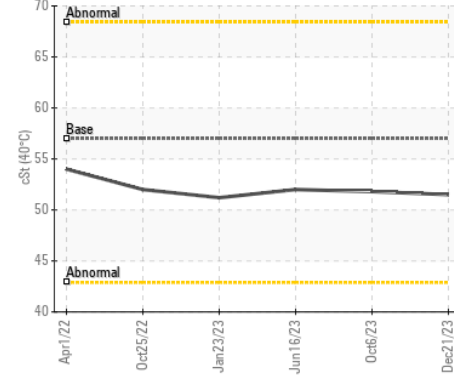
Aluminum (ppm)



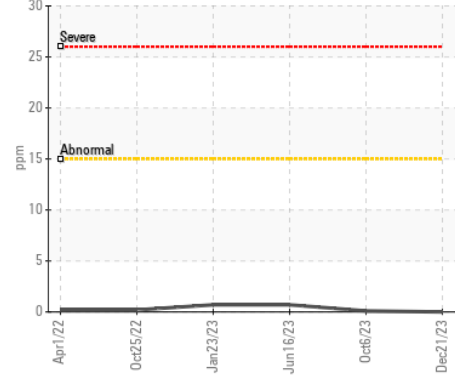
▲ Copper (ppm)



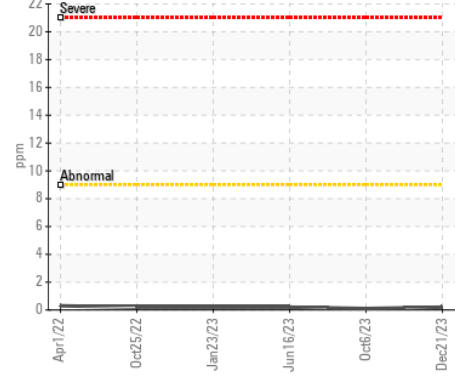
Viscosity @ 40°C



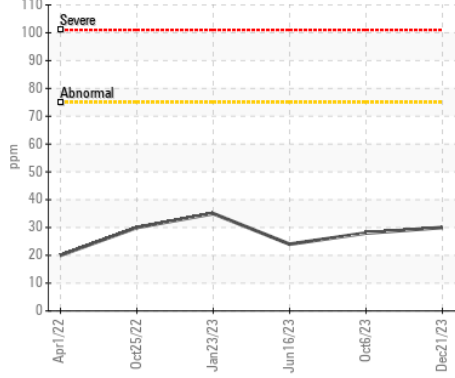
Lead (ppm)



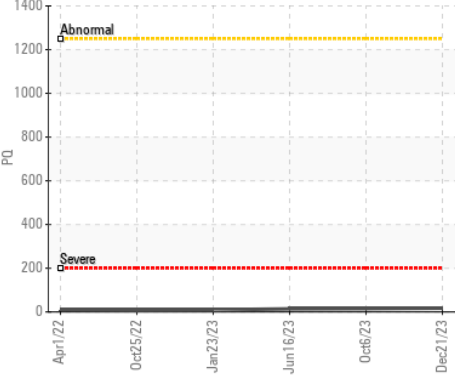
Chromium (ppm)



Silicon (ppm)



PQ



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0183109 **Received** : 29 Dec 2023  
**Lab Number** : 06048025 **Diagnosed** : 02 Jan 2024  
**Unique Number** : 10808633 **Diagnostician** : Jonathan Hester  
**Test Package** : MOBCE ( Additional Tests: PQ )

**WAKE STONE CORP**  
 6811 HWY 64 EAST  
 KNIGHTDALE, NC  
 US 27545

Contact: PAUL SPRUILL  
 paulspruill@wakestonecorp.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:  
F: