



Machine Id  
**JOHN DEERE 844L 1DW844LXANL715421**

Component  
**Hydraulic System**

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

**RECOMMENDATION**

We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0209378</b>	---	---
Sample Date		Client Info		<b>03 Jul 2024</b>	---	---
Machine Age	hrs	Client Info		<b>3862</b>	---	---
Oil Age	hrs	Client Info		<b>1806</b>	---	---
Filter Age	hrs	Client Info		<b>1806</b>	---	---
Oil Changed		Client Info		<b>Not Chngd</b>	---	---
Filter Changed		Client Info		<b>Not Chngd</b>	---	---
Sample Status				<b>SEVERE</b>	---	---

**WEAR**

The iron level is severe.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
Iron	ppm	ASTM D5185m	>20	<b>▲ 76</b>	---	---
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	---	---
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	---	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Silver	ppm	ASTM D5185m		<b>0</b>	---	---
Aluminum	ppm	ASTM D5185m	>10	<b>1</b>	---	---
Lead	ppm	ASTM D5185m	>10	<b>0</b>	---	---
Copper	ppm	ASTM D5185m	>75	<b>10</b>	---	---
Tin	ppm	ASTM D5185m	>10	<b>0</b>	---	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	---	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---

**CONTAMINATION**

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

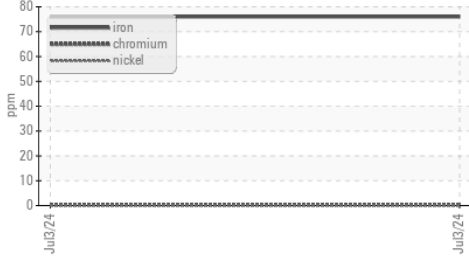
Silicon	ppm	ASTM D5185m	>20	<b>7</b>	---	---
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	---	---
Water		WC Method	>0.1	<b>NEG</b>	---	---
Particles >4µm		ASTM D7647	>5000	<b>● 6983</b>	---	---
Particles >6µm		ASTM D7647	>1300	<b>635</b>	---	---
Particles >14µm		ASTM D7647	>160	<b>24</b>	---	---
Particles >21µm		ASTM D7647	>40	<b>7</b>	---	---
Particles >38µm		ASTM D7647	>10	<b>0</b>	---	---
Particles >71µm		ASTM D7647	>3	<b>0</b>	---	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>● 20/16/12</b>	---	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	---	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	---	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	---	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	---	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	---	---
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	---	---

**FLUID CONDITION**

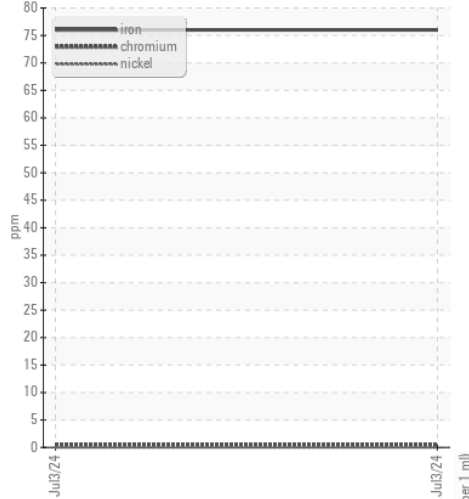
The AN level is acceptable for this fluid. The condition of the oils additive package is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>5</b>	---	---
Boron	ppm	ASTM D5185m	6	<b>2</b>	---	---
Barium	ppm	ASTM D5185m	0	<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185m	0	<b>&lt;1</b>	---	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Magnesium	ppm	ASTM D5185m	145	<b>88</b>	---	---
Calcium	ppm	ASTM D5185m	3570	<b>3151</b>	---	---
Phosphorus	ppm	ASTM D5185m	1290	<b>997</b>	---	---
Zinc	ppm	ASTM D5185m	1640	<b>1160</b>	---	---
Sulfur	ppm	ASTM D5185m		<b>3315</b>	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045	1.8	<b>1.18</b>	---	---
Visc @ 40°C	cSt	ASTM D445	57.0	<b>48.1</b>	---	---

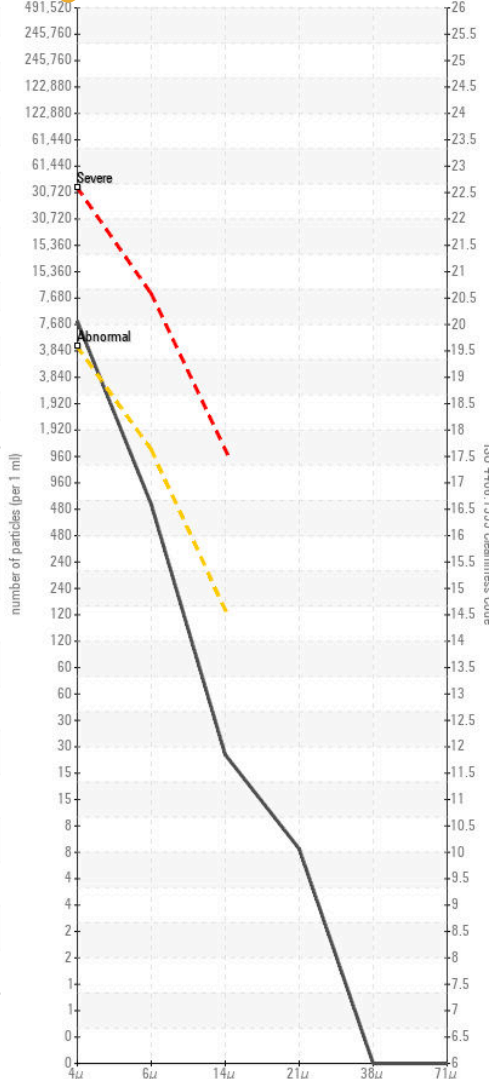
**▲ Ferrous Alloys**



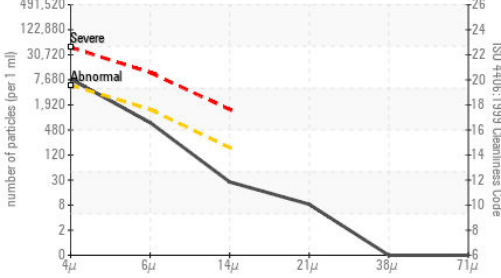
**▲ Ferrous Alloys**



**● Particle Count**



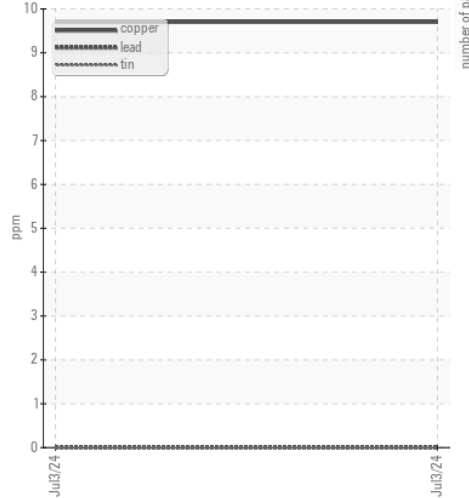
**● Particle Count**



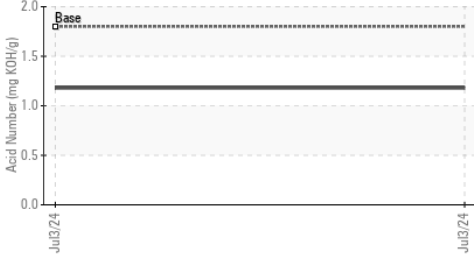
**● Particle Trend**



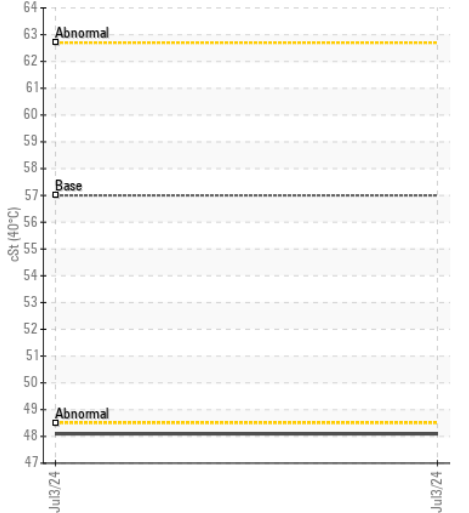
**Non-ferrous Metals**



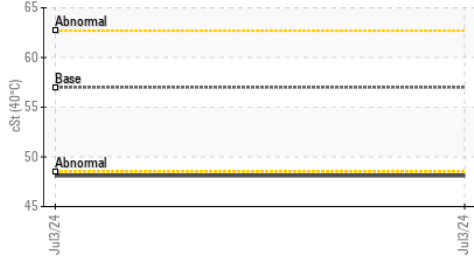
**Acid Number**



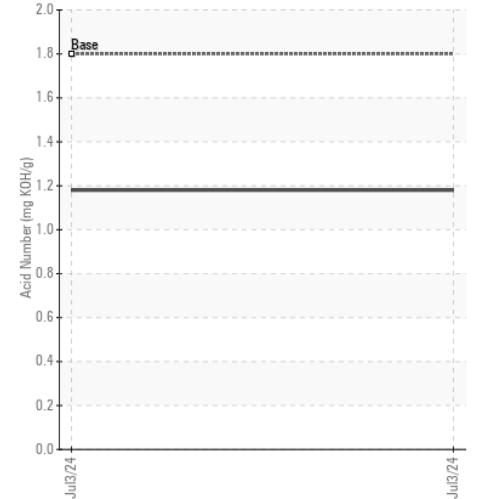
**Viscosity @ 40°C**



**Viscosity @ 40°C**



**Acid Number**



Certificate L2367

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

**Sample No.** : JR0209378

**Lab Number** : 06230726

**Unique Number** : 11114219

**Test Package** : CONST ( Additional Tests: PQ )

**Received** : 08 Jul 2024

**Tested** : 10 Jul 2024

**Diagnosed** : 10 Jul 2024 - Doug Bogart

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 - GARNER**

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