



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

Area  
**[W21336-STEGER]**

Machine Id  
**JOHN DEERE 6430 1L06430HACH721189**

Component  
**Hydraulic System**

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

### RECOMMENDATION

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		<b>JR0210827</b>	---	---
Sample Date		Client Info		<b>15 Apr 2024</b>	---	---
Machine Age	hrs	Client Info		<b>400</b>	---	---
Oil Age	hrs	Client Info		<b>400</b>	---	---
Filter Age	hrs	Client Info		<b>400</b>	---	---
Oil Changed		Client Info		<b>Not Chngd</b>	---	---
Filter Changed		Client Info		<b>Not Chngd</b>	---	---
Sample Status				<b>ABNORMAL</b>	---	---

### WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
Iron	ppm	ASTM D5185m	>20	<b>27</b>	---	---
Chromium	ppm	ASTM D5185m	>10	<b>1</b>	---	---
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	---	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Silver	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Aluminum	ppm	ASTM D5185m	>10	<b>2</b>	---	---
Lead	ppm	ASTM D5185m	>10	<b>7</b>	---	---
Copper	ppm	ASTM D5185m	>75	<b>27</b>	---	---
Tin	ppm	ASTM D5185m	>10	<b>2</b>	---	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---

### CONTAMINATION

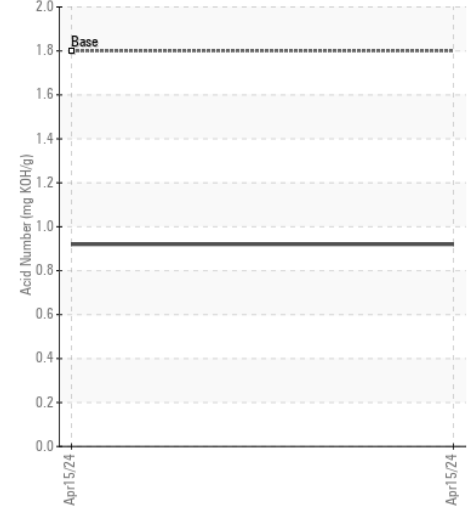
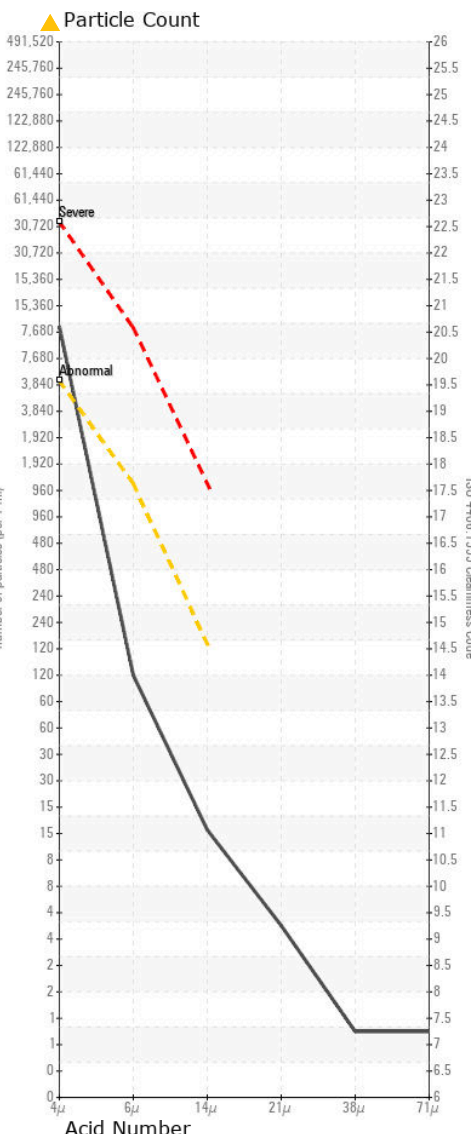
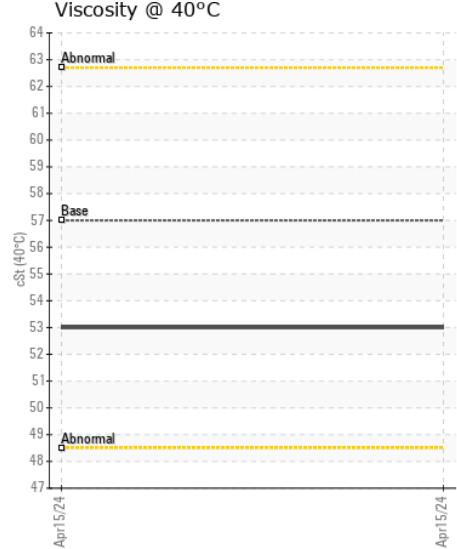
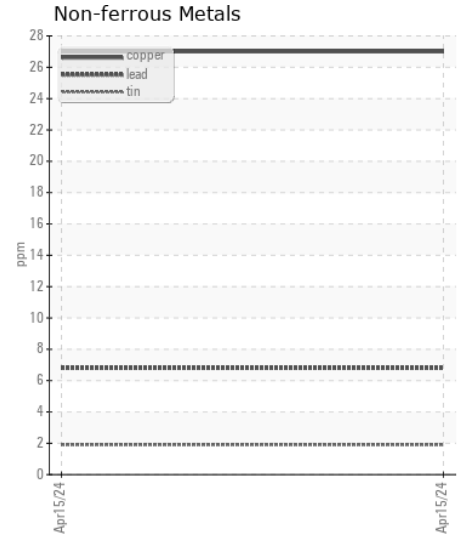
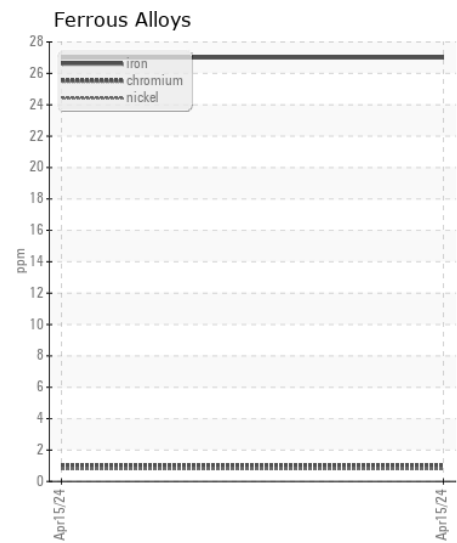
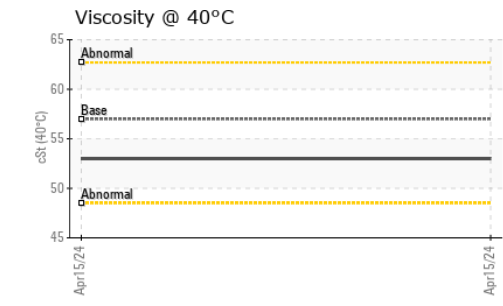
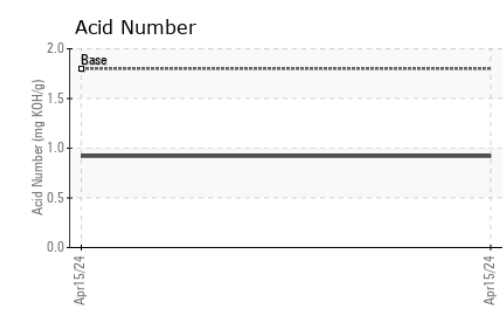
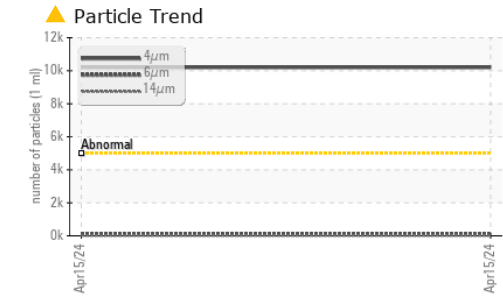
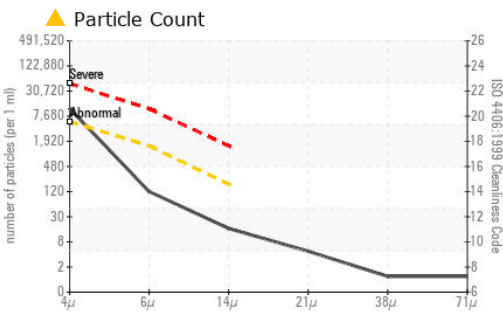
There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>20	<b>10</b>	---	---
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	---	---
Water		WC Method	>0.1	<b>NEG</b>	---	---
Particles >4µm		ASTM D7647	>5000	<b>▲ 10200</b>	---	---
Particles >6µm		ASTM D7647	>1300	<b>106</b>	---	---
Particles >14µm		ASTM D7647	>160	<b>14</b>	---	---
Particles >21µm		ASTM D7647	>40	<b>4</b>	---	---
Particles >38µm		ASTM D7647	>10	<b>1</b>	---	---
Particles >71µm		ASTM D7647	>3	<b>1</b>	---	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>▲ 21/14/11</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.

Sodium	ppm	ASTM D5185m		<b>6</b>	---	---
Boron	ppm	ASTM D5185m	6	<b>71</b>	---	---
Barium	ppm	ASTM D5185m	0	<b>3</b>	---	---
Molybdenum	ppm	ASTM D5185m	0	<b>&lt;1</b>	---	---
Manganese	ppm	ASTM D5185m		<b>3</b>	---	---
Magnesium	ppm	ASTM D5185m	145	<b>106</b>	---	---
Calcium	ppm	ASTM D5185m	3570	<b>5005</b>	---	---
Phosphorus	ppm	ASTM D5185m	1290	<b>1574</b>	---	---
Zinc	ppm	ASTM D5185m	1640	<b>1838</b>	---	---
Sulfur	ppm	ASTM D5185m		<b>6212</b>	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045	1.8	<b>0.92</b>	---	---
Visc @ 40°C	cSt	ASTM D445	57.0	<b>53.0</b>	---	---



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0210827 **Received** : 18 Apr 2024  
**Lab Number** : 06153761 **Tested** : 20 Apr 2024  
**Unique Number** : 10983839 **Diagnosed** : 23 Apr 2024 - Angela Borella  
**Test Package** : CONST ( Additional Tests: PQ )

**JRE - BURKEVILLE**  
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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)