



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

Machine Id  
**JOHN DEERE 35G 1FF035GXHMK295913**  
 Component  
**Hydraulic System**  
 Fluid  
**HITACHI HYDRAULIC SUPER EX 46HN (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0212761</b>	JR0181350	---
Sample Date		Client Info		<b>28 May 2024</b>	02 Aug 2023	---
Machine Age	hrs	Client Info		<b>1206</b>	562	---
Oil Age	hrs	Client Info		<b>562</b>	562	---
Filter Age	hrs	Client Info		<b>0</b>	562	---
Oil Changed		Client Info		<b>N/A</b>	N/A	---
Filter Changed		Client Info		<b>N/A</b>	N/A	---
Sample Status				<b>NORMAL</b>	NORMAL	---

### WEAR

All component wear rates are normal.

PQ		ASTM D8184	>50	<b>11</b>	9	---
Iron	ppm	ASTM D5185m	>32	<b>5</b>	5	---
Chromium	ppm	ASTM D5185m	>9	<b>0</b>	0	---
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	<1	---
Titanium	ppm	ASTM D5185m		<b>0</b>	0	---
Silver	ppm	ASTM D5185m		<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>9	<b>0</b>	0	---
Lead	ppm	ASTM D5185m	>28	<b>0</b>	<1	---
Copper	ppm	ASTM D5185m	>50	<b>2</b>	2	---
Tin	ppm	ASTM D5185m	>5	<b>0</b>	<1	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

### CONTAMINATION

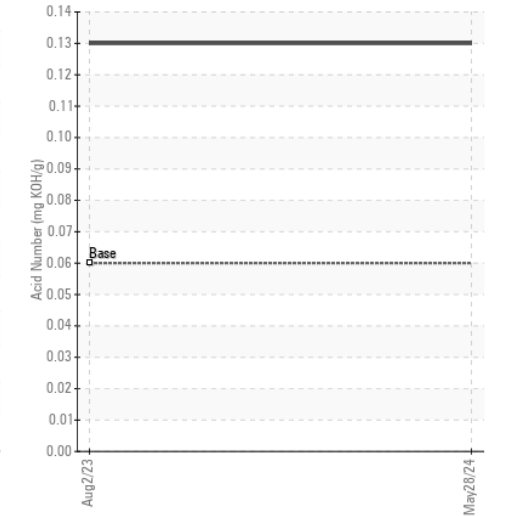
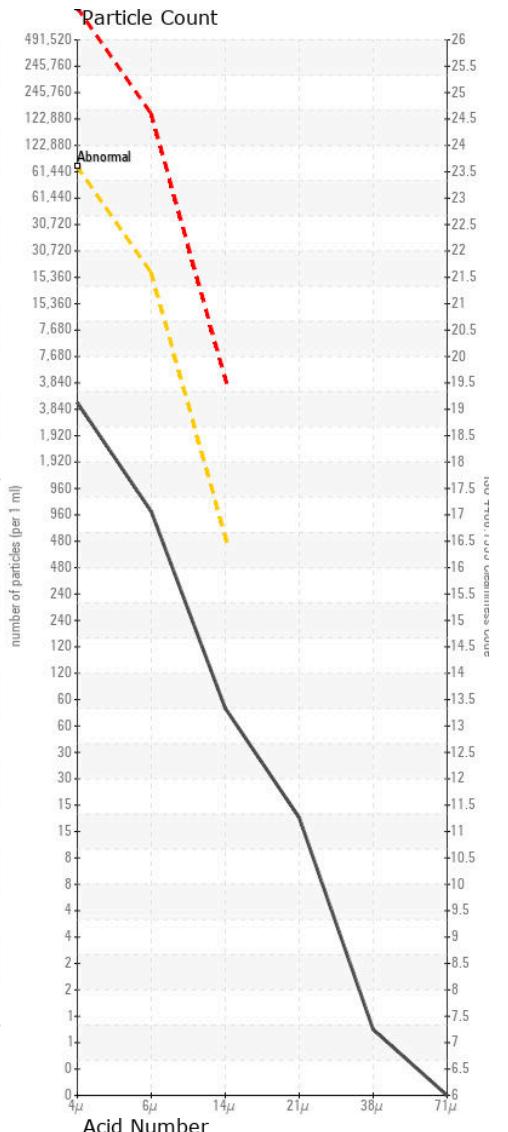
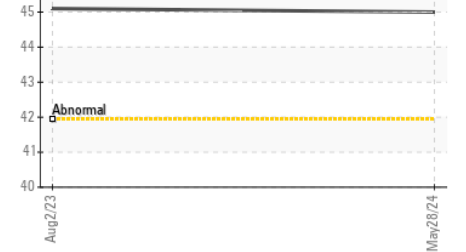
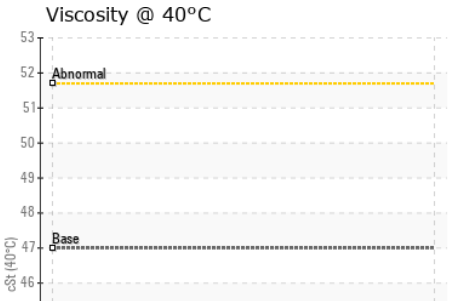
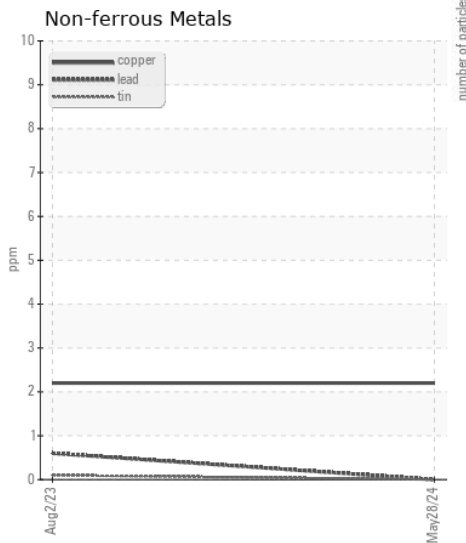
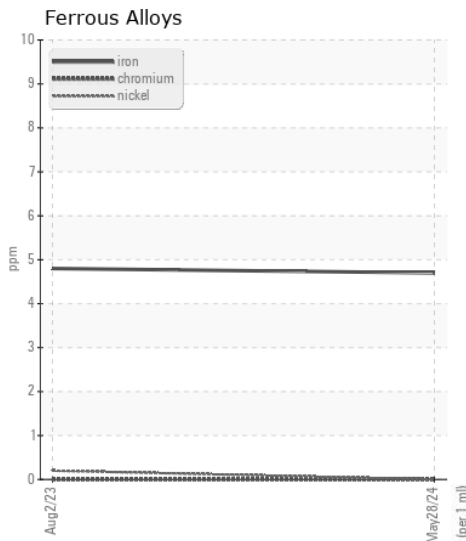
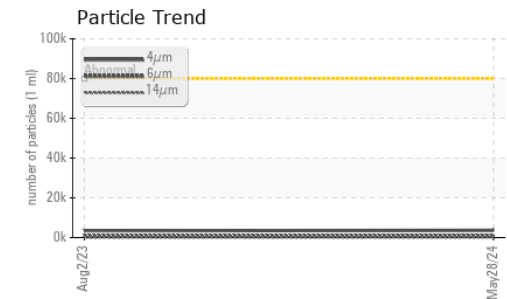
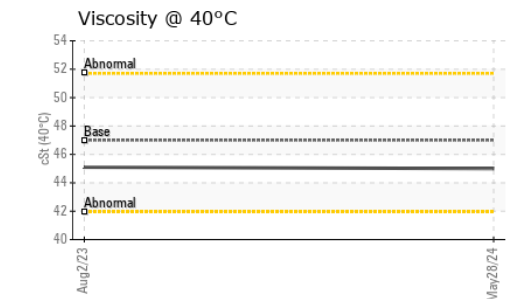
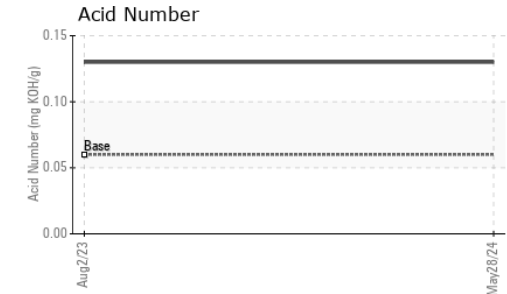
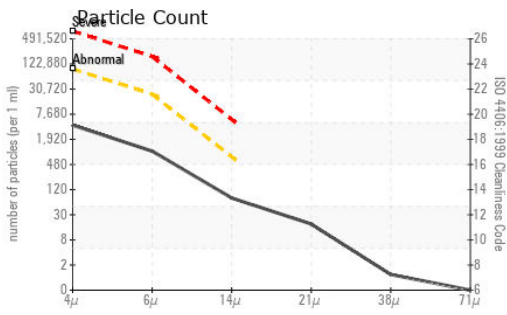
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>11	<b>&lt;1</b>	<1	---
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	<1	---
Water		WC Method	>0.075	<b>NEG</b>	NEG	---
Particles >4µm		ASTM D7647	>80000	<b>3659</b>	3418	---
Particles >6µm		ASTM D7647	>20000	<b>880</b>	625	---
Particles >14µm		ASTM D7647	>640	<b>67</b>	33	---
Particles >21µm		ASTM D7647	>160	<b>16</b>	8	---
Particles >38µm		ASTM D7647	>40	<b>1</b>	0	---
Particles >71µm		ASTM D7647	>10	<b>0</b>	0	---
Oil Cleanliness		ISO 4406 (c)	>23/21/16	<b>19/17/13</b>	19/16/12	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual	>0.075	<b>NEG</b>	NEG	---

### FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m	>21	<b>&lt;1</b>	0	---
Boron	ppm	ASTM D5185m		<b>0</b>	0	---
Barium	ppm	ASTM D5185m		<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m		<b>0</b>	0	---
Manganese	ppm	ASTM D5185m		<b>0</b>	0	---
Magnesium	ppm	ASTM D5185m		<b>4</b>	12	---
Calcium	ppm	ASTM D5185m		<b>8</b>	16	---
Phosphorus	ppm	ASTM D5185m	827	<b>320</b>	303	---
Zinc	ppm	ASTM D5185m	0	<b>53</b>	47	---
Sulfur	ppm	ASTM D5185m	13	<b>2299</b>	1870	---
Acid Number (AN)	mg KOH/g	ASTM D8045	0.06	<b>0.13</b>	0.13	---
Visc @ 40°C	cSt	ASTM D445	47	<b>45.0</b>	45.1	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0212761 **Received** : 29 May 2024  
**Lab Number** : 06193875 **Tested** : 30 May 2024  
**Unique Number** : 11055998 **Diagnosed** : 31 May 2024 - Angela Borella  
**Test Package** : CONST ( Additional Tests: PQ )

**JRE - GARNER**  
 4161 AUBURN CHURCH RD  
 GARNER, NC  
 US 27529

Contact: RALEIGH SHOP  
 sean.betts@jamesriverequipment.com; catherine.anastasio@wearcheck.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: (919)614-2260  
 F: (919)779-5432