



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

Area  
**[W44486]**

Machine Id  
**JOHN DEERE 345G 1FF345GXTMF020937**

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>JR0165462</b>	JR0148169	---
Sample Date		Client Info		<b>05 Jun 2023</b>	21 Feb 2023	---
Machine Age	hrs	Client Info		<b>963</b>	507	---
Oil Age	hrs	Client Info		<b>0</b>	0	---
Filter Age	hrs	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>Not Changed</b>	Not Changed	---
Filter Changed		Client Info		<b>Changed</b>	Not Changed	---
Sample Status				<b>NORMAL</b>	ATTENTION	---

### WEAR

All component wear rates are normal.

PQ		ASTM D8184	>50	<b>14</b>	9	---
Iron	ppm	ASTM D5185m	>32	<b>3</b>	<1	---
Chromium	ppm	ASTM D5185m	>9	<b>0</b>	0	---
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	0	---
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>	0	---
Copper	ppm	ASTM D5185m	>50	<b>2</b>	<1	---
Tin	ppm	ASTM D5185m	>5	<b>0</b>	0	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

### CONTAMINATION

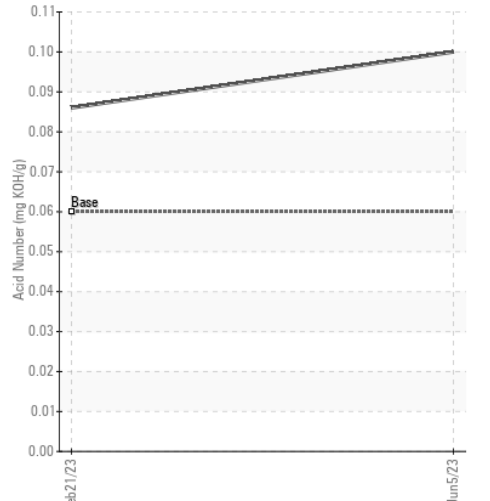
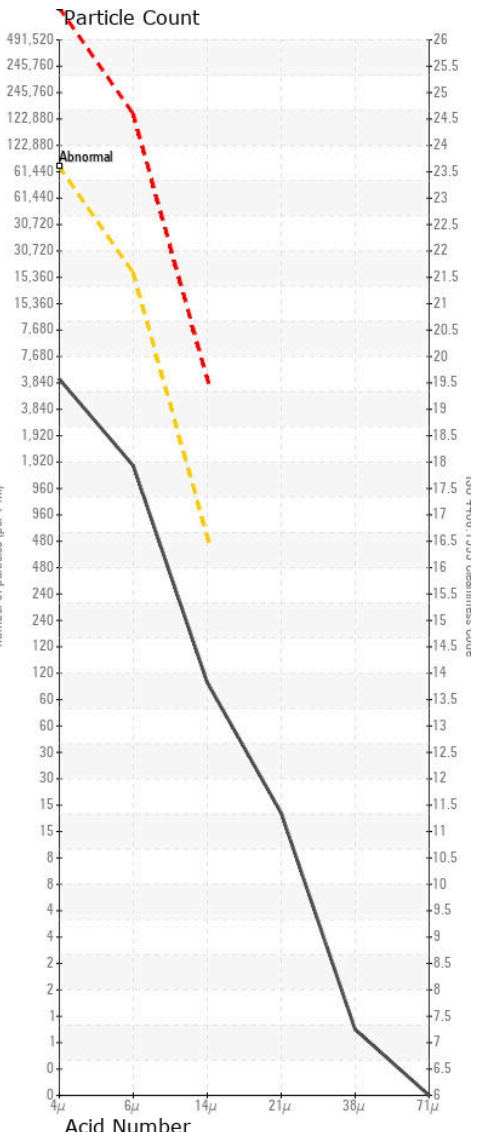
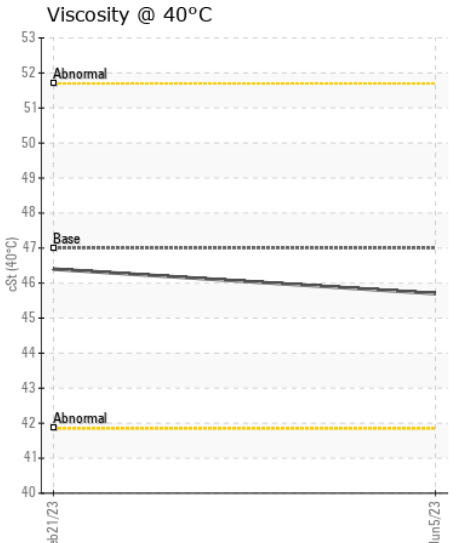
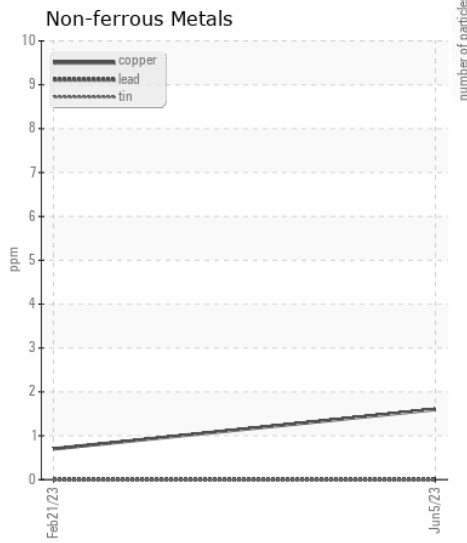
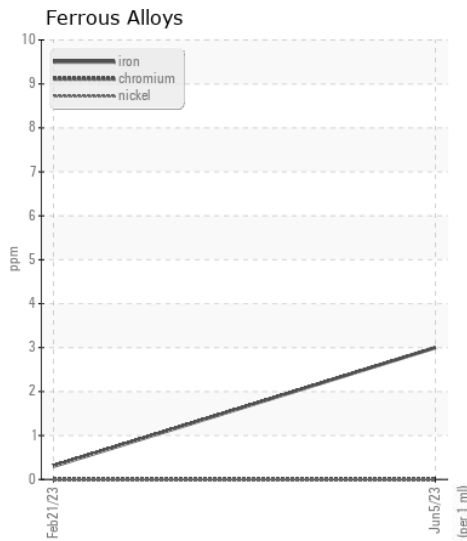
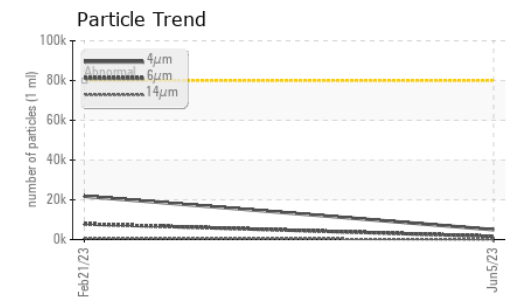
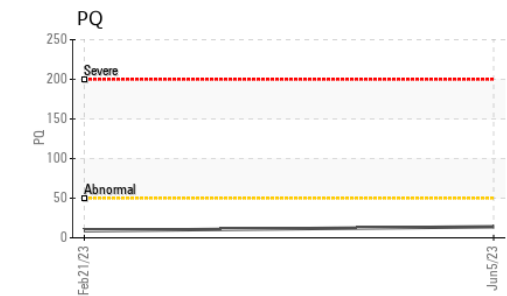
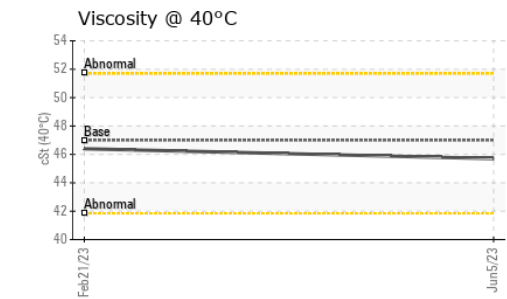
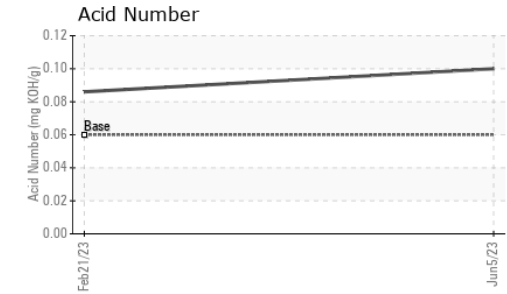
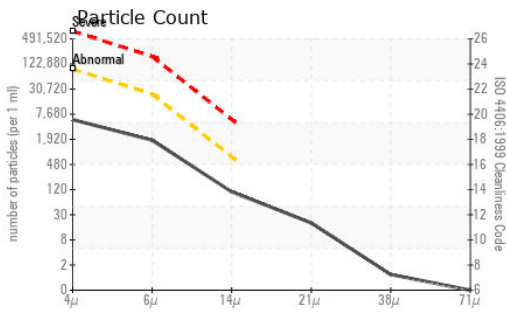
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Silicon	ppm	ASTM D5185m	>11	<b>&lt;1</b>	<1	---
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	---
Water		WC Method	>0.075	<b>NEG</b>	NEG	---
Particles >4µm		ASTM D7647	>80000	<b>4971</b>	21794	---
Particles >6µm		ASTM D7647	>20000	<b>1601</b>	7834	---
Particles >14µm		ASTM D7647	>640	<b>94</b>	644	---
Particles >21µm		ASTM D7647	>160	<b>17</b>	125	---
Particles >38µm		ASTM D7647	>40	<b>1</b>	8	---
Particles >71µm		ASTM D7647	>10	<b>0</b>	1	---
Oil Cleanliness		ISO 4406 (c)	>23/21/16	<b>19/18/14</b>	22/20/17	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	VLITE	---
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>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185m		<b>0</b>	3	---
Calcium	ppm	ASTM D5185m		<b>&lt;1</b>	2	---
Phosphorus	ppm	ASTM D5185m	827	<b>587</b>	493	---
Zinc	ppm	ASTM D5185m	0	<b>32</b>	32	---
Sulfur	ppm	ASTM D5185m	13	<b>230</b>	0	---
Acid Number (AN)	mg KOH/g	ASTM D8045	0.06	<b>0.10</b>	0.086	---
Visc @ 40°C	cSt	ASTM D445	47	<b>45.7</b>	46.4	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0165462 **Received** : 09 Jun 2023  
**Lab Number** : 05869349 **Tested** : 12 Jun 2023  
**Unique Number** : 10509133 **Diagnosed** : 12 Jun 2023 - Wes Davis  
**Test Package** : CONST ( Additional Tests: PQ )

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)

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