



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

Machine Id  
**JOHN DEERE 350G 1FF350GXAKF814265**  
 Component  
**Hydraulic System**  
 Fluid  
**HITACHI HYDRAULIC SUPER EX 46HN (51 GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0201240</b>	JR0193550	JR0189510
Sample Date		Client Info		<b>26 Feb 2024</b>	30 Nov 2023	18 Oct 2023
Machine Age	hrs	Client Info		<b>6524</b>	6125	5687
Oil Age	hrs	Client Info		<b>5576</b>	1125	510
Filter Age	hrs	Client Info		<b>0</b>	1125	510
Oil Changed		Client Info		<b>Not Chngd</b>	Not Chngd	Not Chngd
Filter Changed		Client Info		<b>N/A</b>	Changed	Not Chngd
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

PQ		ASTM D8184	>50	<b>7</b>	12	13
Iron	ppm	ASTM D5185m	>32	<b>7</b>	4	4
Chromium	ppm	ASTM D5185m	>9	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>9	<b>&lt;1</b>	0	<1
Lead	ppm	ASTM D5185m	>28	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>50	<b>&lt;1</b>	0	0
Tin	ppm	ASTM D5185m	>5	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>LIGHT</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

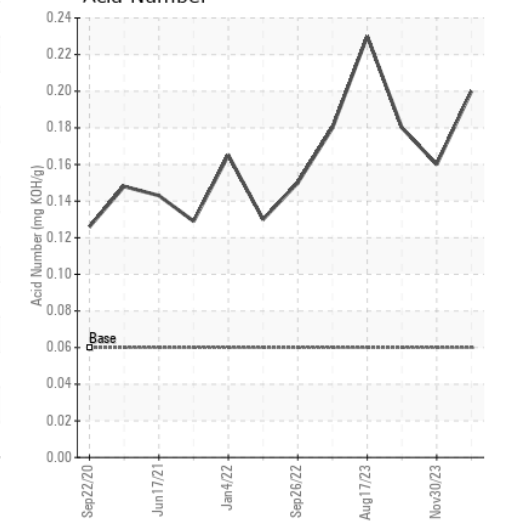
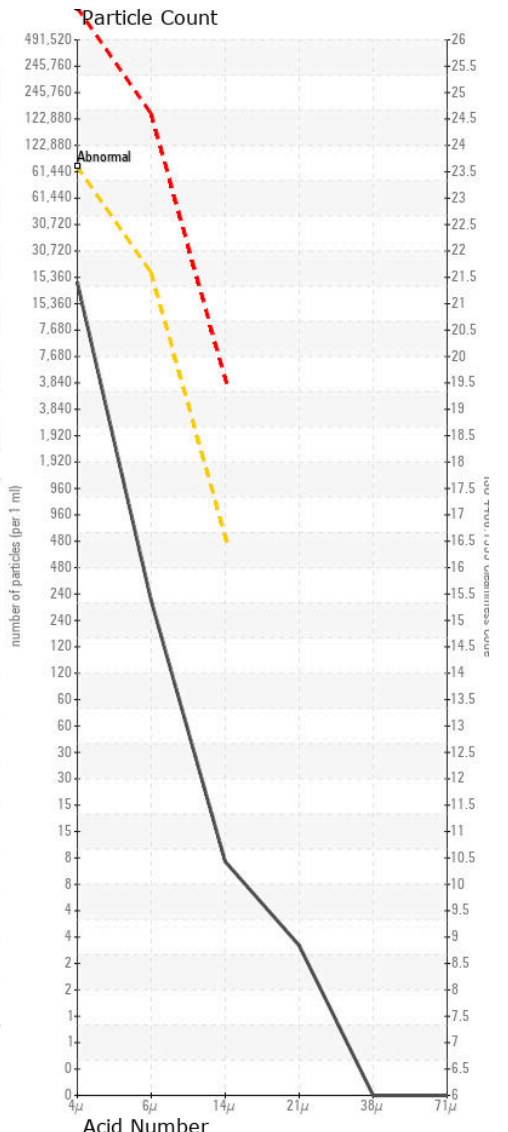
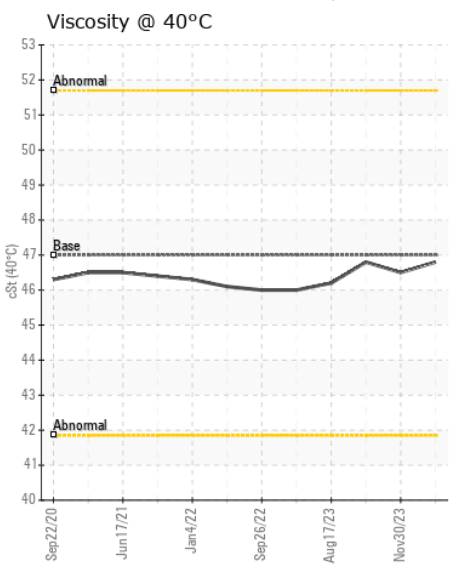
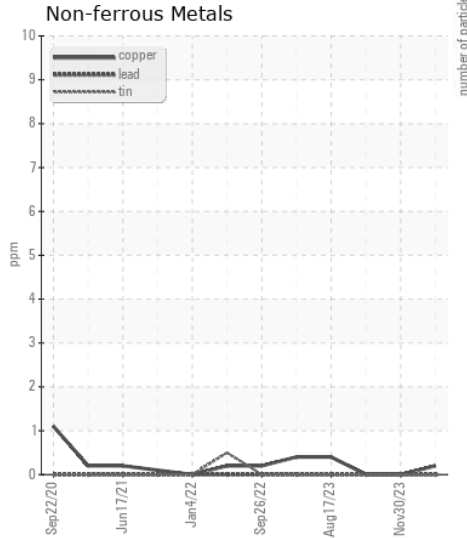
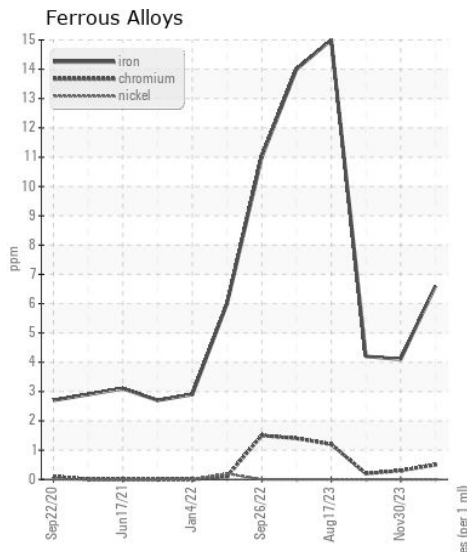
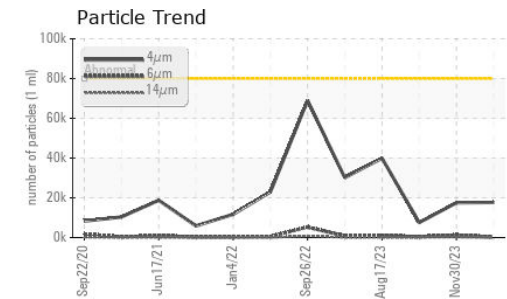
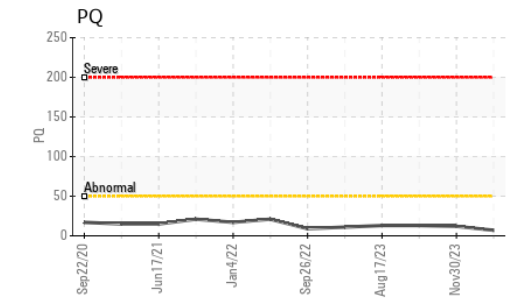
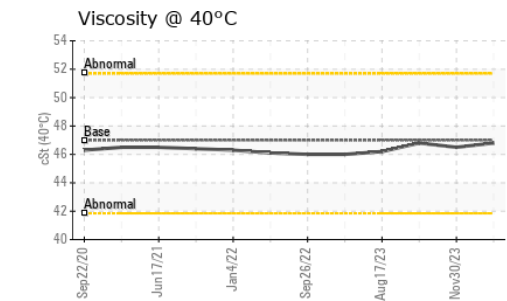
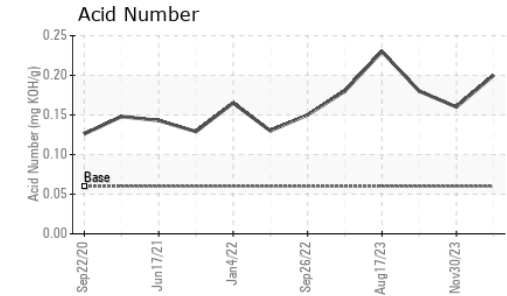
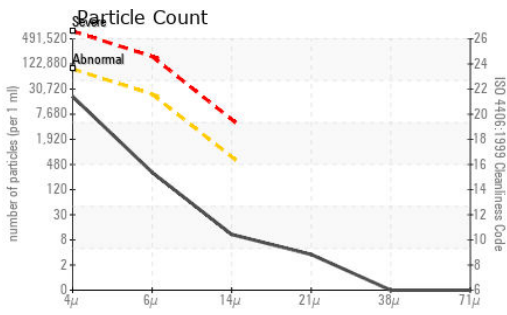
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>11	<b>3</b>	2	2
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	0
Water		WC Method	>0.075	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>80000	<b>17650</b>	17493	7567
Particles >6µm		ASTM D7647	>20000	<b>273</b>	1265	421
Particles >14µm		ASTM D7647	>640	<b>9</b>	205	26
Particles >21µm		ASTM D7647	>160	<b>3</b>	56	6
Particles >38µm		ASTM D7647	>40	<b>0</b>	1	1
Particles >71µm		ASTM D7647	>10	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>23/21/16	<b>21/15/10</b>	21/17/15	20/16/12
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 AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m	>21	<b>2</b>	2	<1
Boron	ppm	ASTM D5185m		<b>0</b>	0	0
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>0</b>	0	0
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Magnesium	ppm	ASTM D5185m		<b>2</b>	0	0
Calcium	ppm	ASTM D5185m		<b>23</b>	8	1
Phosphorus	ppm	ASTM D5185m	827	<b>542</b>	458	534
Zinc	ppm	ASTM D5185m	0	<b>&lt;1</b>	5	0
Sulfur	ppm	ASTM D5185m	13	<b>74</b>	67	67
Acid Number (AN)	mg KOH/g	ASTM D8045	0.06	<b>0.20</b>	0.16	0.18
Visc @ 40°C	cSt	ASTM D445	47	<b>46.8</b>	46.5	46.8



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

Sample No. : JR0201240

Lab Number : 06102877

Unique Number : 10901107

Test Package : CONST ( Additional Tests: PQ )

Received : 28 Feb 2024

Tested : 29 Feb 2024

Diagnosed : 01 Mar 2024 - Angela Borella

**JRE - NEW BERN**  
3816 MARTIN LUTHER KING BLVD  
NEW BERN, NC  
US 28562

Contact: NEW BERN SHOP

nick.etheridge@jamesriverequipment.com;canastasio@wearchckusa.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)

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F: