



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

Machine Id  
**JOHN DEERE 350G 1FF350GXVJF813100**  
 Component  
**Hydraulic System**  
 Fluid  
**HITACHI HYDRAULIC SUPER EX 46HN (80 GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0222555</b>	JR0191013	JR0163573
Sample Date		Client Info		<b>07 Jul 2024</b>	04 Dec 2023	29 Mar 2023
Machine Age	hrs	Client Info		<b>7030</b>	6346	5320
Oil Age	hrs	Client Info		<b>6004</b>	1026	5218
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Chngd</b>	Not Chngd	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

PQ		ASTM D8184	>50	<b>15</b>	20	8
Iron	ppm	ASTM D5185m	>32	<b>4</b>	2	2
Chromium	ppm	ASTM D5185m	>9	<b>4</b>	2	1
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>9	<b>&lt;1</b>	<1	0
Lead	ppm	ASTM D5185m	>28	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>50	<b>2</b>	<1	0
Tin	ppm	ASTM D5185m	>5	<b>&lt;1</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

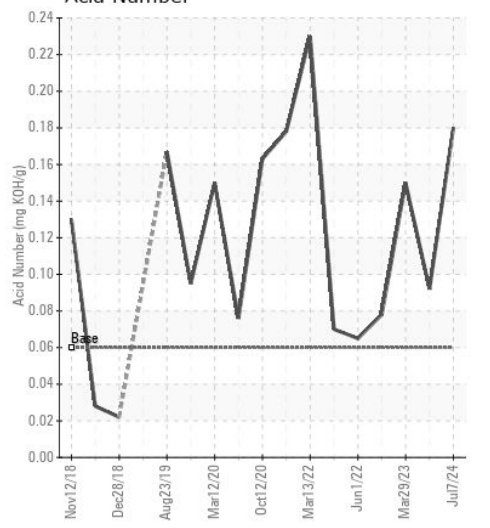
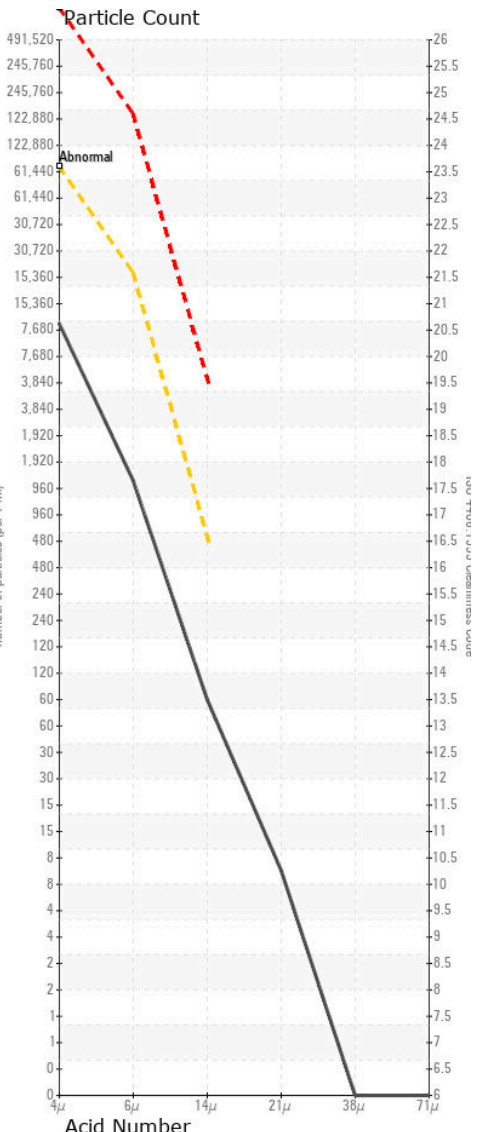
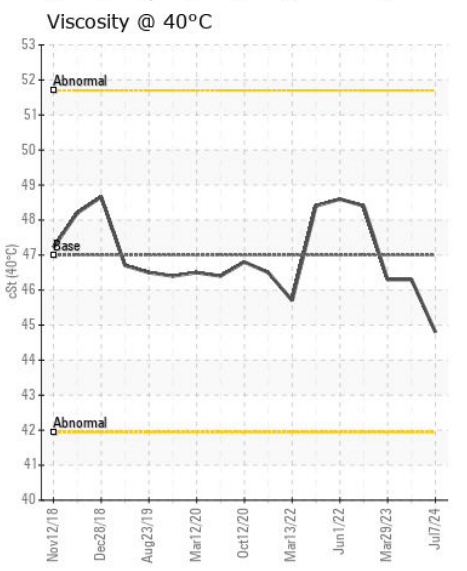
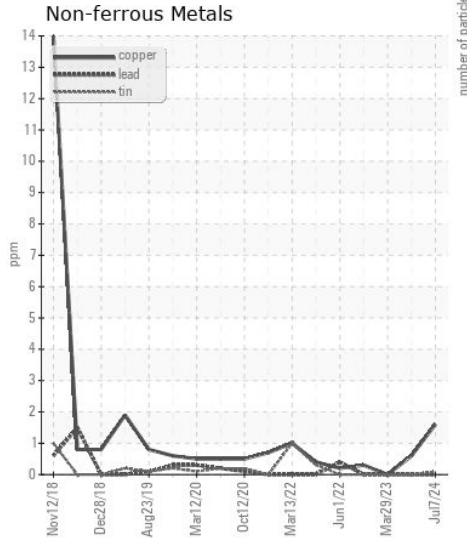
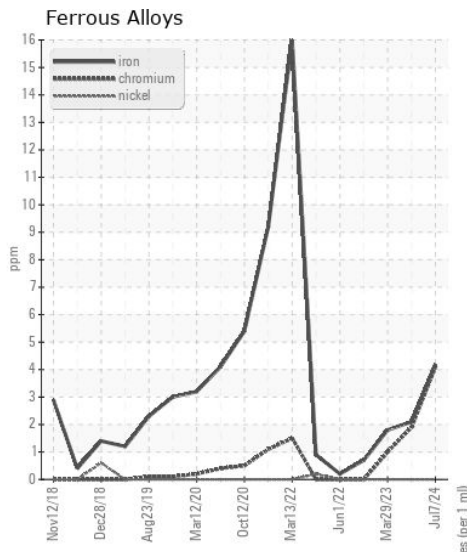
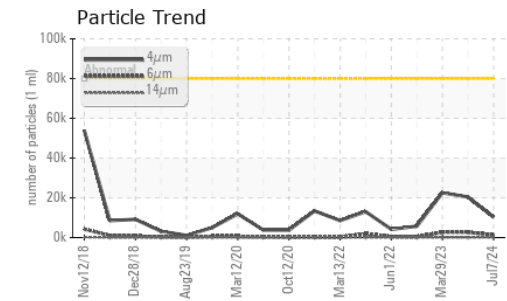
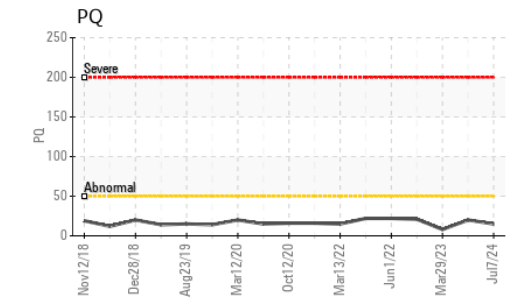
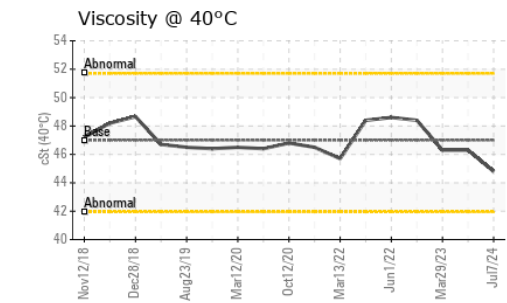
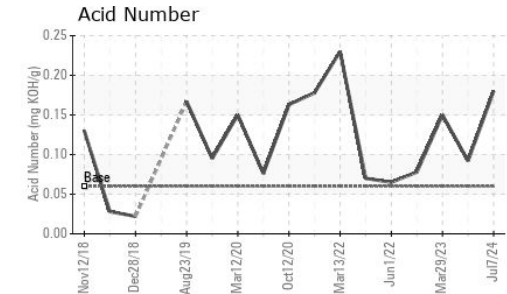
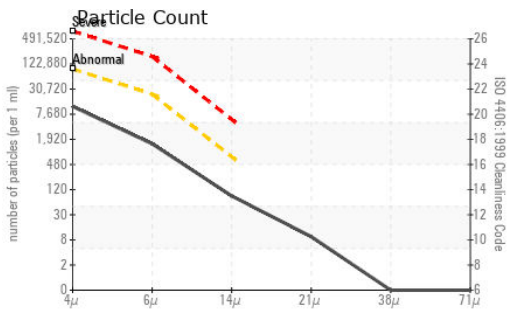
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>11	<b>2</b>	<1	<1
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	<1	0
Water		WC Method	>0.075	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>80000	<b>10264</b>	20418	22526
Particles >6µm		ASTM D7647	>20000	<b>1313</b>	2684	2710
Particles >14µm		ASTM D7647	>640	<b>75</b>	96	55
Particles >21µm		ASTM D7647	>160	<b>8</b>	29	15
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>21/18/13</b>	22/19/14	22/19/13
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>	0	0
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>	<1	0
Manganese	ppm	ASTM D5185m		<b>0</b>	0	0
Magnesium	ppm	ASTM D5185m		<b>4</b>	0	2
Calcium	ppm	ASTM D5185m		<b>17</b>	2	6
Phosphorus	ppm	ASTM D5185m	827	<b>593</b>	549	610
Zinc	ppm	ASTM D5185m	0	<b>20</b>	0	0
Sulfur	ppm	ASTM D5185m	13	<b>244</b>	0	0
Acid Number (AN)	mg KOH/g	ASTM D8045	0.06	<b>0.18</b>	0.092	0.15
Visc @ 40°C	cSt	ASTM D445	47	<b>44.8</b>	46.3	46.3



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0222555 **Received** : 10 Jul 2024  
**Lab Number** : 06232181 **Tested** : 11 Jul 2024  
**Unique Number** : 11115674 **Diagnosed** : 11 Jul 2024 - Don Baldridge  
**Test Package** : CONST ( Additional Tests: PQ )

**JRE - GARNER**  
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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)