



WEAR	ATTENTION
CONTAMINATION	ABNORMAL
FLUID CONDITION	ATTENTION

Machine Id  
**JOHN DEERE 350G 1FF350GXLFF810871**

Component  
**Gearbox**

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

### RECOMMENDATION

We advise that you check all areas where dirt can enter the system. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0181146</b>	JR0163454	JR0112906
Sample Date		Client Info		<b>13 Aug 2023</b>	29 Mar 2023	18 Jul 2022
Machine Age	hrs	Client Info		<b>6933</b>	6505	5576
Oil Age	hrs	Client Info		<b>6933</b>	6505	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Not Changd	N/A
Filter Changed		Client Info		<b>Changed</b>	N/A	N/A
Sample Status				<b>ABNORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		<b>19</b>	5	23
Iron	ppm	ASTM D5185m	>200	<b>150</b>	5	124
Chromium	ppm	ASTM D5185m	>10	<b>3</b>	0	2
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>1</b>	0	2
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>▲ 11</b>	2	9
Lead	ppm	ASTM D5185m	>50	<b>0</b>	0	<1
Copper	ppm	ASTM D5185m	>200	<b>0</b>	<1	<1
Tin	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

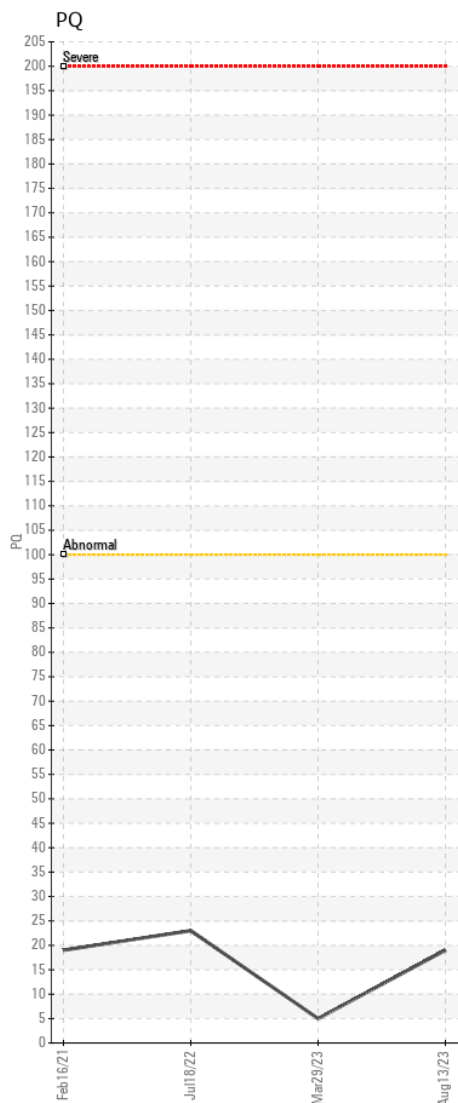
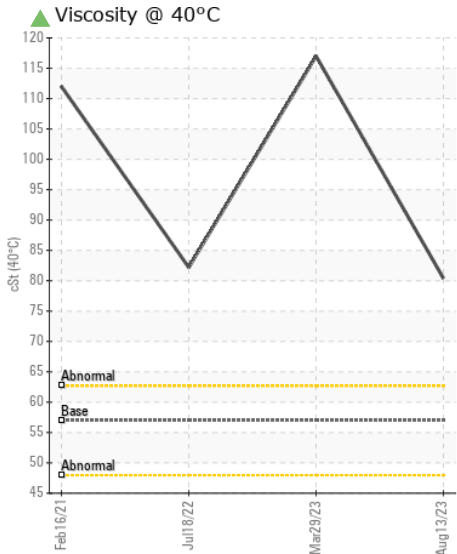
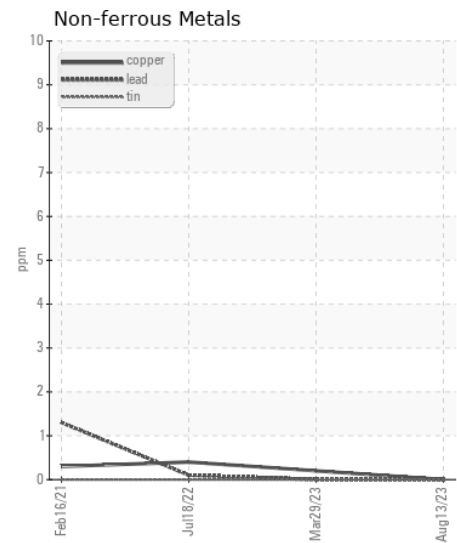
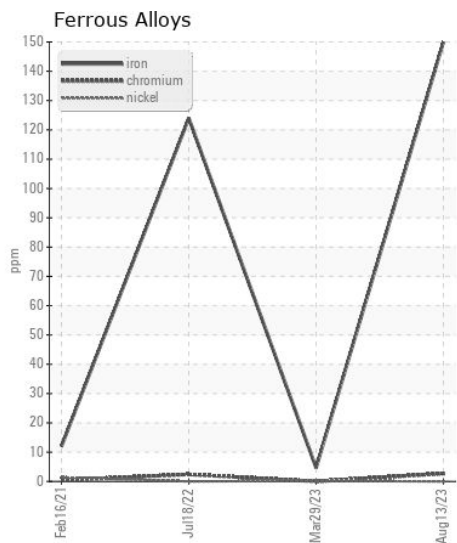
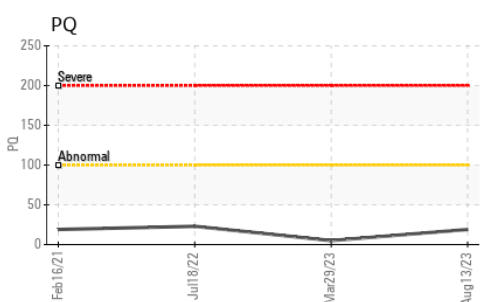
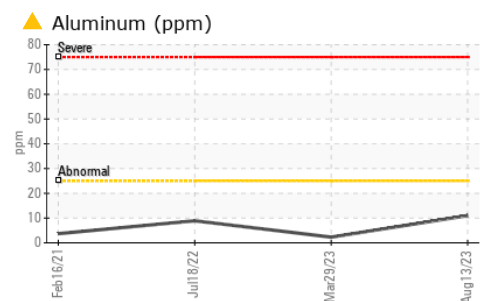
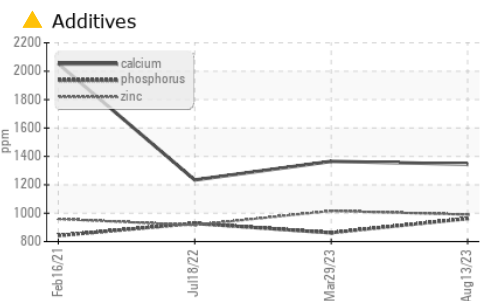
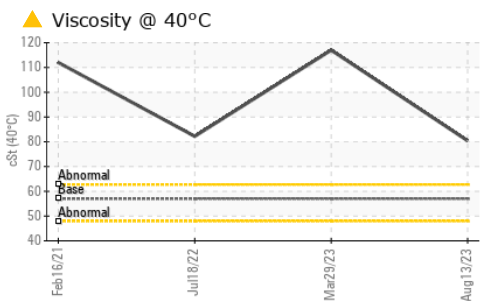
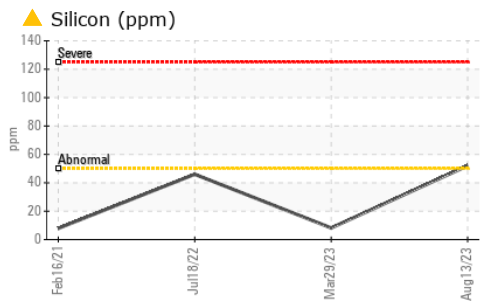
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>50	<b>▲ 52</b>	8	46
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	2	3
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	LIGHT	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	>0.2	<b>NEG</b>	NEG	NEG

### FLUID CONDITION

The oil viscosity is higher than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type.

Sodium	ppm	ASTM D5185m		<b>7</b>	0	5
Boron	ppm	ASTM D5185m	6	<b>▲ 219</b>	295	251
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	0	<b>▲ 219</b>	240	225
Manganese	ppm	ASTM D5185m		<b>4</b>	<1	3
Magnesium	ppm	ASTM D5185m	145	<b>▲ 758</b>	710	666
Calcium	ppm	ASTM D5185m	3570	<b>▲ 1345</b>	1365	1234
Phosphorus	ppm	ASTM D5185m	1290	<b>962</b>	862	928
Zinc	ppm	ASTM D5185m	1640	<b>990</b>	1016	916
Sulfur	ppm	ASTM D5185m		<b>▲ 6482</b>	3345	6040
Visc @ 40°C	cSt	ASTM D445	57.0	<b>▲ 80.4</b>	117	82.2



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0181146 **Received** : 15 Aug 2023  
**Lab Number** : 05925083 **Tested** : 16 Aug 2023  
**Unique Number** : 10605030 **Diagnosed** : 16 Aug 2023 - Sean Felton  
**Test Package** : CONST ( Additional Tests: PQ )

**JRE - GARNER**  
 4161 AUBURN CHURCH RD  
 GARNER, NC  
 US 27529  
 Contact: ANDRE JELONEK  
 andre.jelonek@jamesriverequipment.com  
 T: (919)772-2121  
 F: (919)779-5432

Certificate L2367  
 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)