



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

Area

**[05W46987]**

Machine Id

**JOHN DEERE 350G 1FF350GXHMF815258**

Component

**Right Final Drive**

Fluid

**JOHN DEERE GL-5 80W90 (10 QTS)**

### RECOMMENDATION

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

### WEAR

Gear wear is indicated.

### CONTAMINATION

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

### FLUID CONDITION

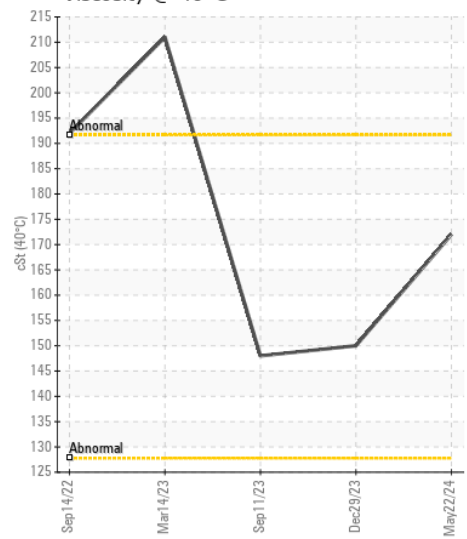
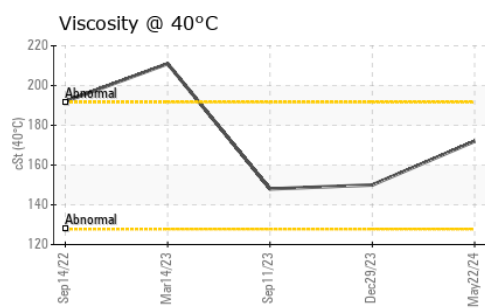
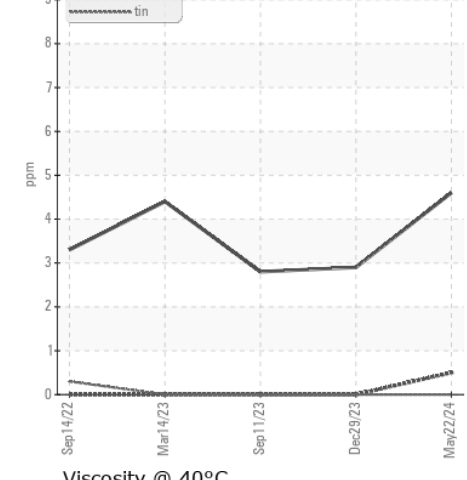
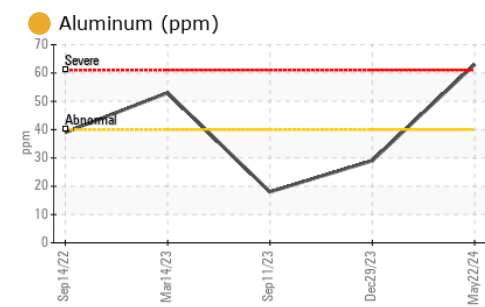
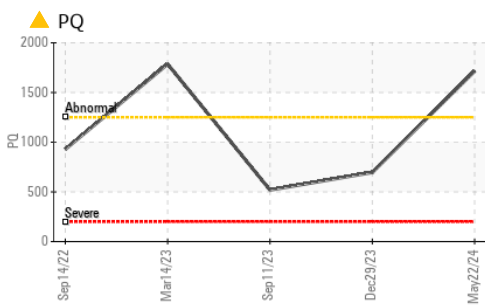
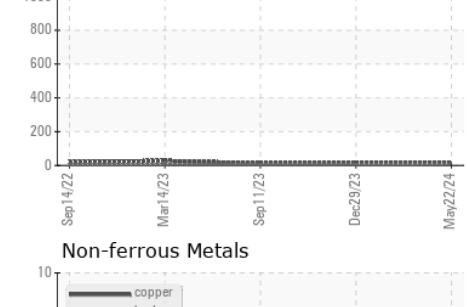
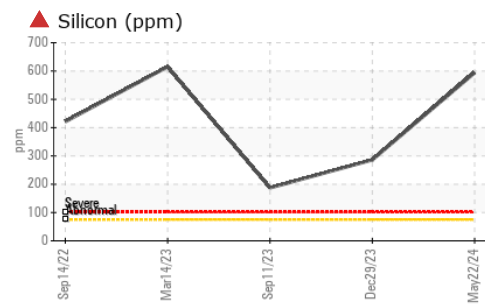
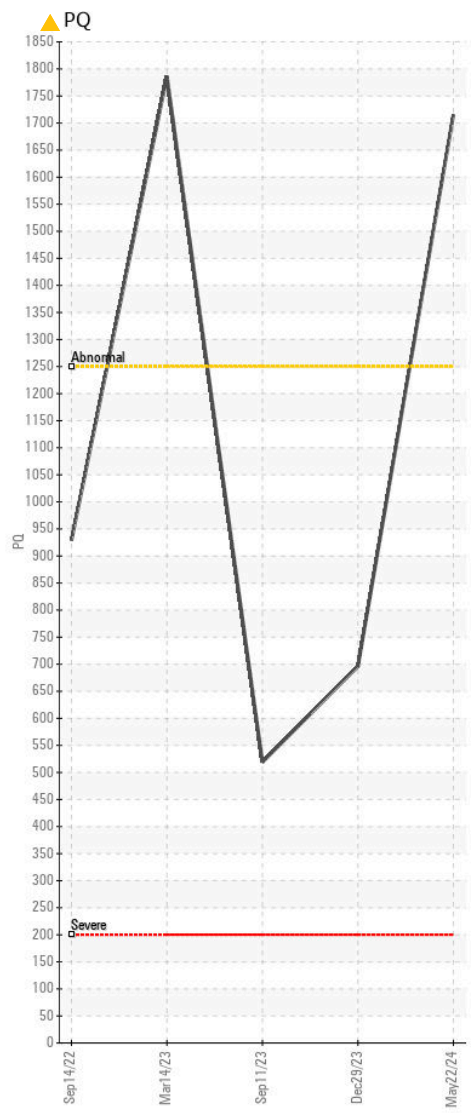
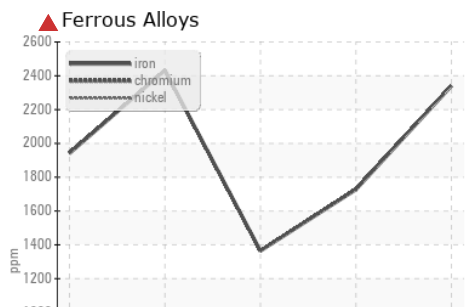
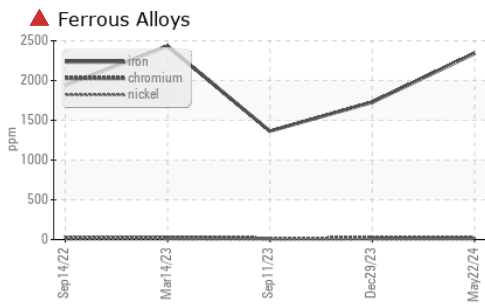
The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0217913</b>	JR0199045	JR0183986
Sample Date		Client Info		<b>22 May 2024</b>	29 Dec 2023	11 Sep 2023
Machine Age	hrs	Client Info		<b>3457</b>	2941	2438
Oil Age	hrs	Client Info		<b>500</b>	2469	472
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Changd</b>	N/A	Not Changd
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>SEVERE</b>	ABNORMAL	ABNORMAL

PQ		ASTM D8184	>1250	<b>▲ 1715</b>	696	519
Iron	ppm	ASTM D5185m	>750	<b>▲ 2340</b>	▲ 1727	▲ 1364
Chromium	ppm	ASTM D5185m	>9	<b>▲ 18</b>	▲ 16	▲ 13
Nickel	ppm	ASTM D5185m	>10	<b>4</b>	2	1
Titanium	ppm	ASTM D5185m		<b>17</b>	8	5
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>40	<b>● 63</b>	● 29	● 18
Lead	ppm	ASTM D5185m	>15	<b>&lt;1</b>	0	0
Copper	ppm	ASTM D5185m	>40	<b>5</b>	3	3
Tin	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

Silicon	ppm	ASTM D5185m	>75	<b>▲ 594</b>	▲ 286	▲ 187
Potassium	ppm	ASTM D5185m	>20	<b>14</b>	6	4
Water		WC Method	>0.075	<b>NEG</b>	NEG	NEG
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

Sodium	ppm	ASTM D5185m	>51	<b>&lt;1</b>	1	2
Boron	ppm	ASTM D5185m		<b>91</b>	83	96
Barium	ppm	ASTM D5185m		<b>1</b>	0	<1
Molybdenum	ppm	ASTM D5185m		<b>2</b>	0	0
Manganese	ppm	ASTM D5185m		<b>20</b>	15	13
Magnesium	ppm	ASTM D5185m		<b>6</b>	2	4
Calcium	ppm	ASTM D5185m		<b>22</b>	15	25
Phosphorus	ppm	ASTM D5185m		<b>777</b>	757	745
Zinc	ppm	ASTM D5185m		<b>24</b>	6	32
Sulfur	ppm	ASTM D5185m		<b>21222</b>	18074	20654
Visc @ 40°C	cSt	ASTM D445		<b>172</b>	150	148



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0217913 **Received** : 24 May 2024  
**Lab Number** : 06191273 **Tested** : 31 May 2024  
**Unique Number** : 11048025 **Diagnosed** : 31 May 2024 - Sean Felton  
**Test Package** : CONST ( Additional Tests: PQ )

**JRE - MANASSAS PARK**  
 9107 OWENS DRIVE  
 MANASSAS PARK, VA  
 US 20111  
 Contact: DON VEST  
 dvest@jamesriverequipment.com  
 T: (703)631-8500  
 F: (703)631-4715

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)