



Machine Id  
**HITACHI 350LC 1FFDDR70CLF940874**

Component  
**Right Final Drive**

Fluid  
**JOHN DEERE GL-5 80W90 (--- GAL)**

**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.

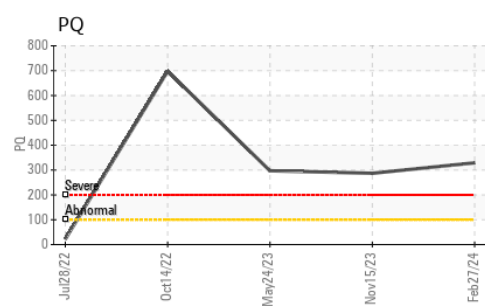
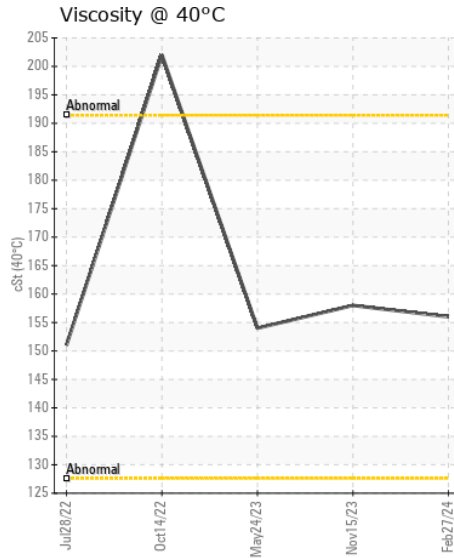
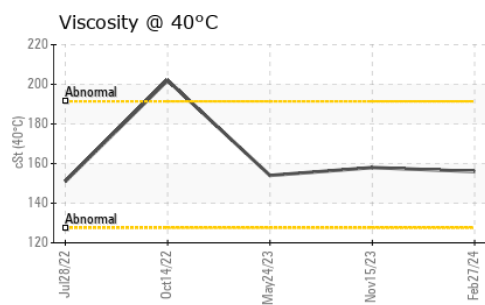
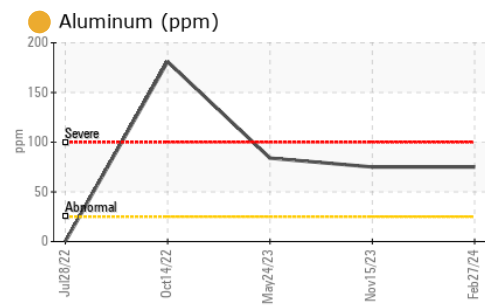
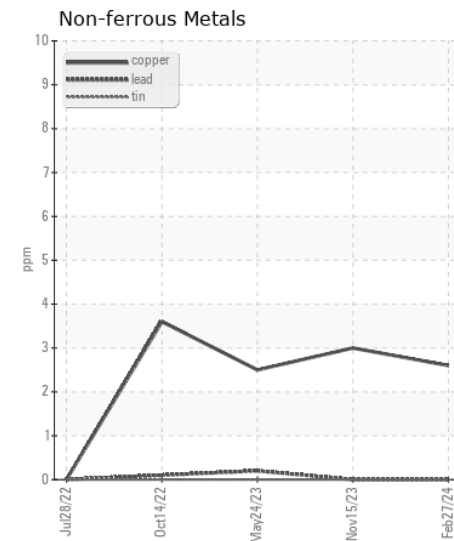
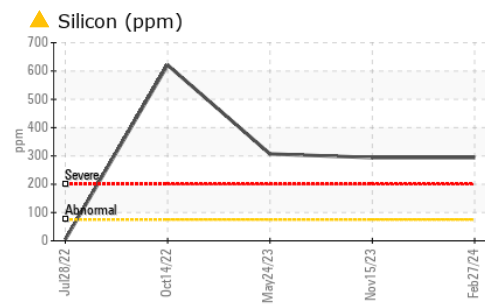
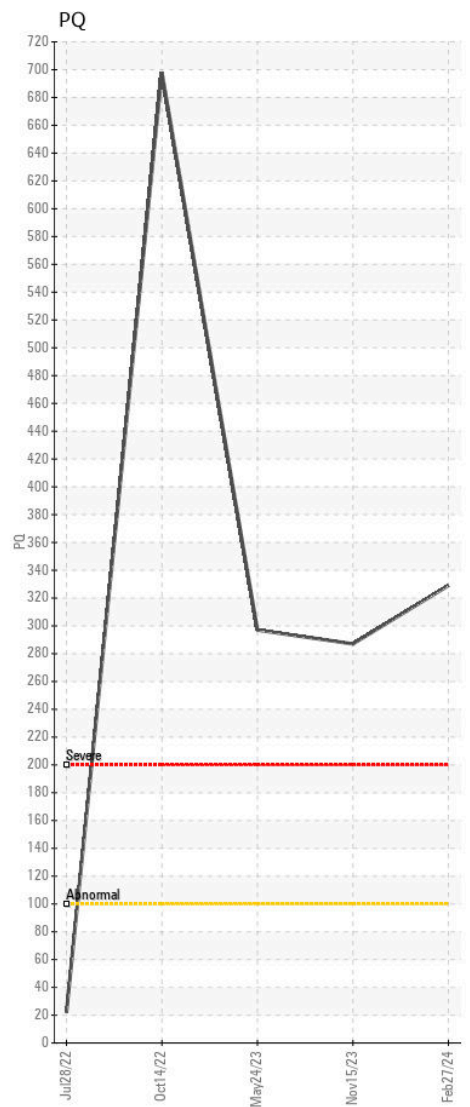
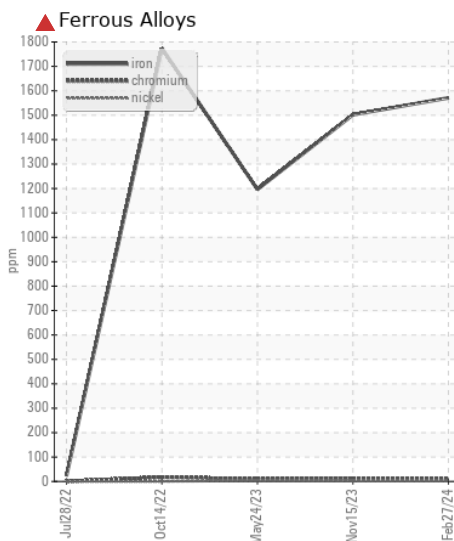
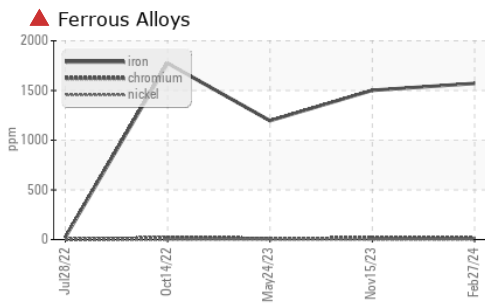
**CONTAMINATION**

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>JR0197805</b>	JR0190568	JR0175131
Sample Date		Client Info		<b>27 Feb 2024</b>	15 Nov 2023	24 May 2023
Machine Age	hrs	Client Info		<b>3560</b>	3265	2538
Oil Age	hrs	Client Info		<b>295</b>	3265	2538
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Changd</b>	Changed	N/A
Filter Changed		Client Info		<b>N/A</b>	Changed	N/A
Sample Status				<b>SEVERE</b>	SEVERE	ABNORMAL
PQ		ASTM D8184		<b>329</b>	287	297
Iron	ppm	ASTM D5185m	>500	<b>▲ 1571</b>	▲ 1502	▲ 1196
Chromium	ppm	ASTM D5185m	>10	<b>▲ 12</b>	▲ 13	▲ 10
Nickel	ppm	ASTM D5185m	>10	<b>2</b>	1	2
Titanium	ppm	ASTM D5185m		<b>4</b>	5	4
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>● 75</b>	● 75	● 84
Lead	ppm	ASTM D5185m	>25	<b>0</b>	0	<1
Copper	ppm	ASTM D5185m	>50	<b>3</b>	3	2
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>▲ 294</b>	▲ 294	▲ 307
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	4	5
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>	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	>0.2	<b>NEG</b>	NEG	NEG
Sodium	ppm	ASTM D5185m		<b>14</b>	13	11
Boron	ppm	ASTM D5185m		<b>16</b>	16	20
Barium	ppm	ASTM D5185m		<b>1</b>	0	3
Molybdenum	ppm	ASTM D5185m		<b>0</b>	0	<1
Manganese	ppm	ASTM D5185m		<b>13</b>	14	11
Magnesium	ppm	ASTM D5185m		<b>6</b>	13	12
Calcium	ppm	ASTM D5185m		<b>38</b>	40	38
Phosphorus	ppm	ASTM D5185m		<b>974</b>	911	968
Zinc	ppm	ASTM D5185m		<b>11</b>	2	12
Sulfur	ppm	ASTM D5185m		<b>20432</b>	20358	23914
Visc @ 40°C	cSt	ASTM D445		<b>156</b>	158	154



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0197805  
**Lab Number** : 06104598  
**Unique Number** : 10902828  
**Test Package** : CONST ( Additional Tests: PQ )

**JRE - GARNER**  
 4161 AUBURN CHURCH RD  
 GARNER, NC  
 US 27529

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Contact: RALEIGH SHOP  
 sean.betts@jamesriverequipment.com; catherine.anastasio@wearcheck.com

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

T: (919)614-2260

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

F: (919)779-5432