



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

Machine Id  
**HITACHI 470LC HCMJAG60T00060976**  
 Component  
**Right Swing Drive Gear Case**  
 Fluid  
**JOHN DEERE GL-5 80W90 (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0220250</b>	JR0205712	JR0178666
Sample Date		Client Info		<b>15 Jun 2024</b>	07 Mar 2024	11 Aug 2023
Machine Age	hrs	Client Info		<b>7795</b>	7252	6003
Oil Age	hrs	Client Info		<b>6546</b>	1249	4479
Filter Age	hrs	Client Info		<b>0</b>	0	4479
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	Changed
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

PQ		ASTM D8184		<b>26</b>	26	9
Iron	ppm	ASTM D5185m	>200	<b>69</b>	84	<1
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	0
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185m		<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185m		<b>2</b>	2	0
Lead	ppm	ASTM D5185m		<b>0</b>	<1	0
Copper	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Tin	ppm	ASTM D5185m		<b>0</b>	<1	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

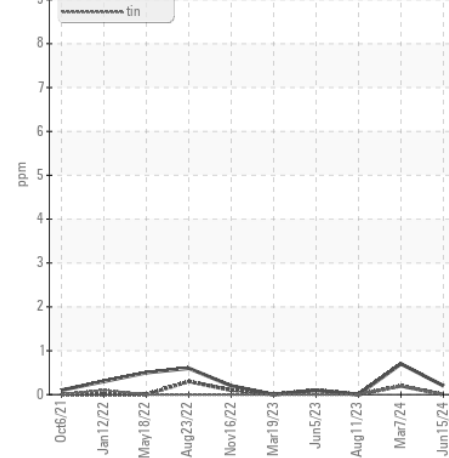
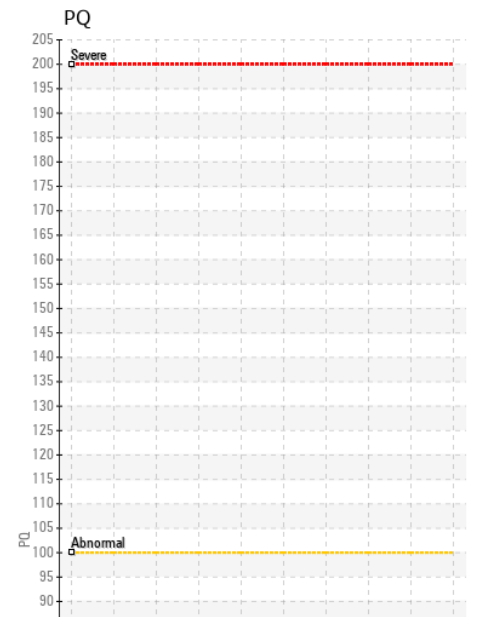
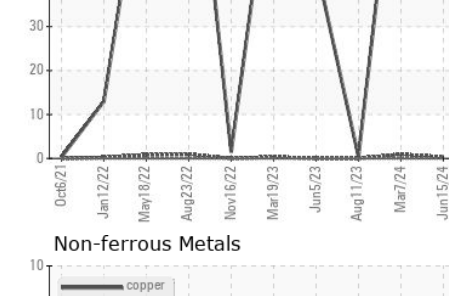
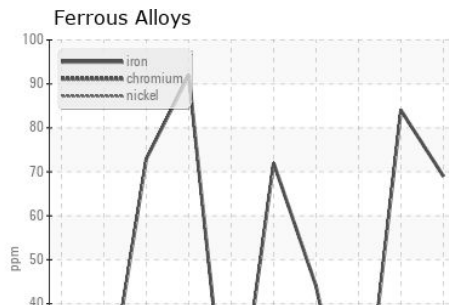
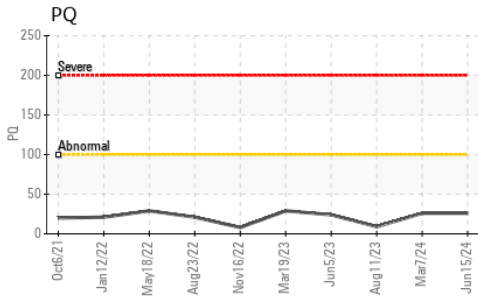
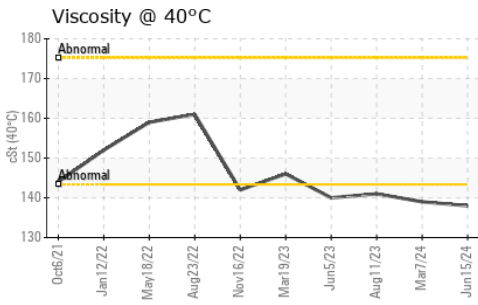
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m		<b>9</b>	10	<1
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	2	1
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

### FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		<b>0</b>	0	0
Boron	ppm	ASTM D5185m		<b>18</b>	46	7
Barium	ppm	ASTM D5185m		<b>0</b>	0	2
Molybdenum	ppm	ASTM D5185m		<b>0</b>	<1	<1
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	0
Magnesium	ppm	ASTM D5185m		<b>4</b>	2	3
Calcium	ppm	ASTM D5185m		<b>59</b>	23	32
Phosphorus	ppm	ASTM D5185m		<b>436</b>	653	388
Zinc	ppm	ASTM D5185m		<b>18</b>	4	8
Sulfur	ppm	ASTM D5185m		<b>17650</b>	22852	19236
Visc @ 40°C	cSt	ASTM D445		<b>138</b>	139	141



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0220250 **Received** : 18 Jun 2024  
**Lab Number** : 06213785 **Tested** : 20 Jun 2024  
**Unique Number** : 11086649 **Diagnosed** : 20 Jun 2024 - Sean Felton  
**Test Package** : CONST ( Additional Tests: PQ )

**JRE - CHARLOTTE**  
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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)