



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

Machine Id  
**HITACHI 190W-6 HCMLBH60V00005009**  
 Component  
**Front Left Final Drive**  
 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>JR0221958</b>	JR0209221	JR0156693
Sample Date		Client Info		<b>18 Jun 2024</b>	10 Apr 2024	28 Dec 2022
Machine Age	hrs	Client Info		<b>5563</b>	5019	2553
Oil Age	hrs	Client Info		<b>0</b>	2955	2553
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Changd</b>	Changed	Not Changd
Filter Changed		Client Info		<b>None</b>	None	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

PQ		ASTM D8184		<b>19</b>	68	58
Iron	ppm	ASTM D5185m	>500	<b>0</b>	198	134
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	2	1
Nickel	ppm	ASTM D5185m	>10	<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	>25	<b>0</b>	2	0
Lead	ppm	ASTM D5185m	>25	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>50	<b>0</b>	46	26
Tin	ppm	ASTM D5185m	>10	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

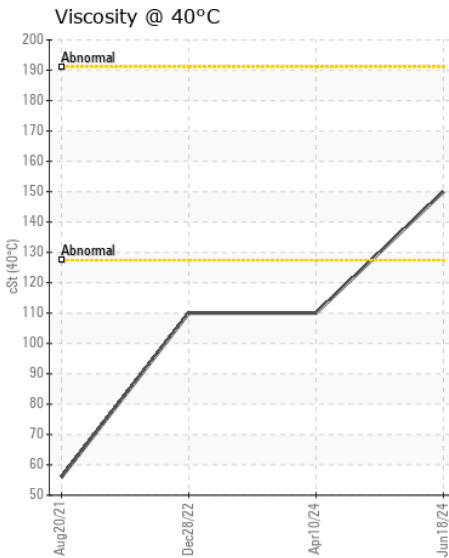
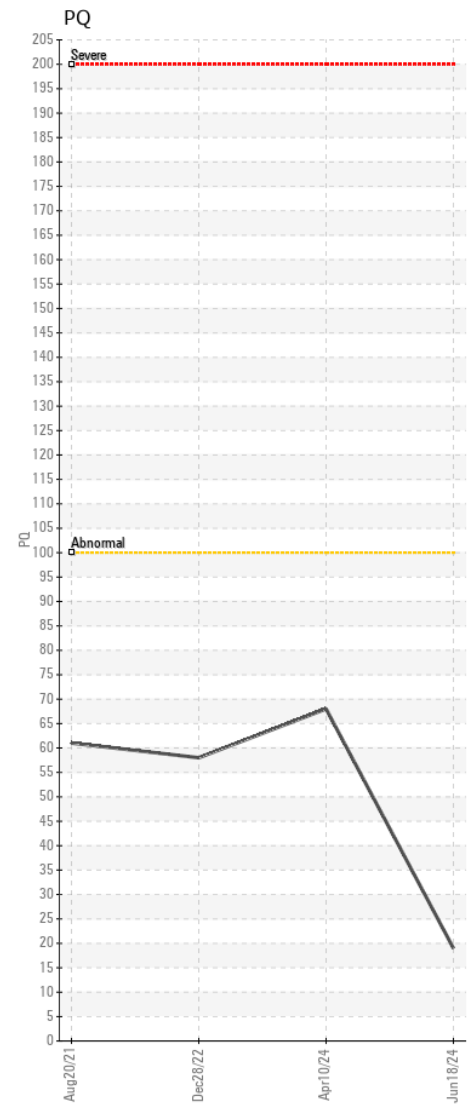
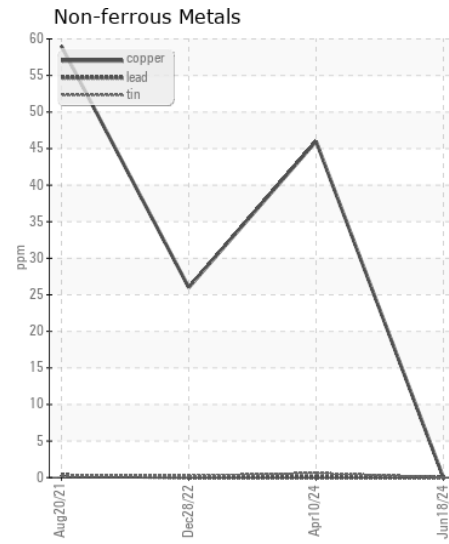
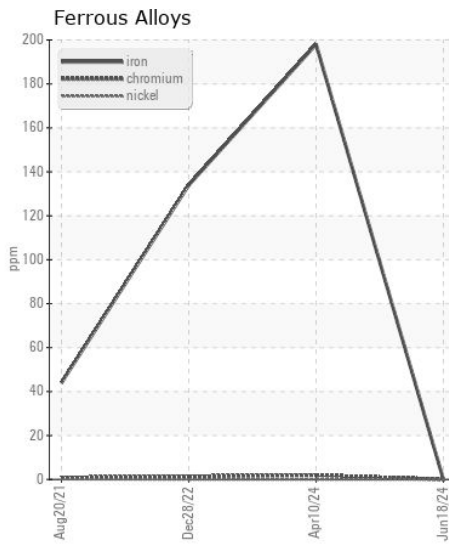
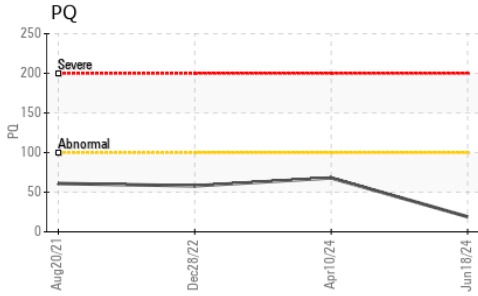
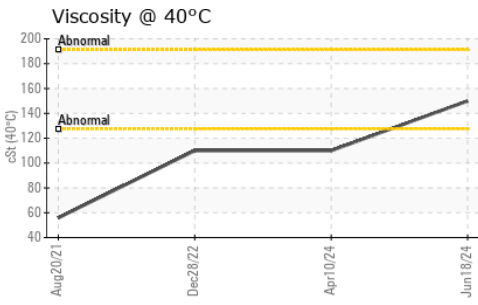
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	<b>2</b>	4	5
Potassium	ppm	ASTM D5185m	>20	<b>0</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>1</b>	8	9
Boron	ppm	ASTM D5185m		<b>5</b>	11	479
Barium	ppm	ASTM D5185m		<b>0</b>	<1	4
Molybdenum	ppm	ASTM D5185m		<b>0</b>	<1	<1
Manganese	ppm	ASTM D5185m		<b>0</b>	1	2
Magnesium	ppm	ASTM D5185m		<b>0</b>	6	4
Calcium	ppm	ASTM D5185m		<b>2</b>	650	617
Phosphorus	ppm	ASTM D5185m		<b>2215</b>	494	405
Zinc	ppm	ASTM D5185m		<b>1</b>	295	274
Sulfur	ppm	ASTM D5185m		<b>30946</b>	16689	17520
Visc @ 40°C	cSt	ASTM D445		<b>150</b>	110	110



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0221958 **Received** : 20 Jun 2024  
**Lab Number** : 06216006 **Tested** : 22 Jun 2024  
**Unique Number** : 11088870 **Diagnosed** : 23 Jun 2024 - Don Baldrige  
**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)