



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

Machine Id  
**HAMM H12I H2840084**  
 Component  
**Rear Differential**  
 Fluid  
**JOHN DEERE GL-5 80W90 (--- QTS)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0225395</b>	JR0187735	---
Sample Date		Client Info		<b>27 Jun 2024</b>	11 Sep 2023	---
Machine Age	hrs	Client Info		<b>1509</b>	946	---
Oil Age	hrs	Client Info		<b>1509</b>	946	---
Filter Age	hrs	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>Not Changd</b>	Changed	---
Filter Changed		Client Info		<b>N/A</b>	None	---
Sample Status				<b>NORMAL</b>	NORMAL	---

### WEAR

All component wear rates are normal.

PQ		ASTM D8184		<b>61</b>	158	---
Iron	ppm	ASTM D5185m	>500	<b>84</b>	113	---
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	1	---
Nickel	ppm	ASTM D5185m	>10	<b>1</b>	0	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Silver	ppm	ASTM D5185m		<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>25	<b>4</b>	0	---
Lead	ppm	ASTM D5185m	>25	<b>0</b>	0	---
Copper	ppm	ASTM D5185m	>100	<b>57</b>	137	---
Tin	ppm	ASTM D5185m	>10	<b>2</b>	6	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

### CONTAMINATION

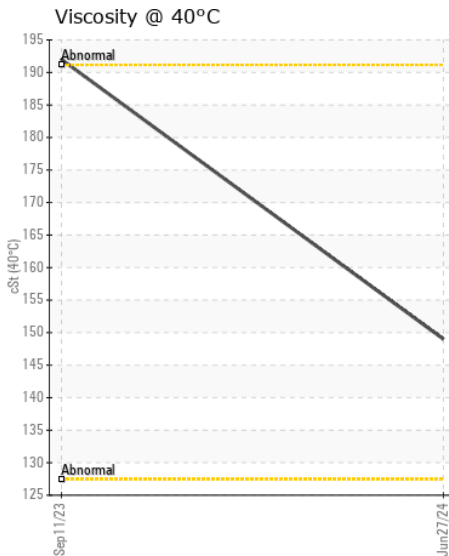
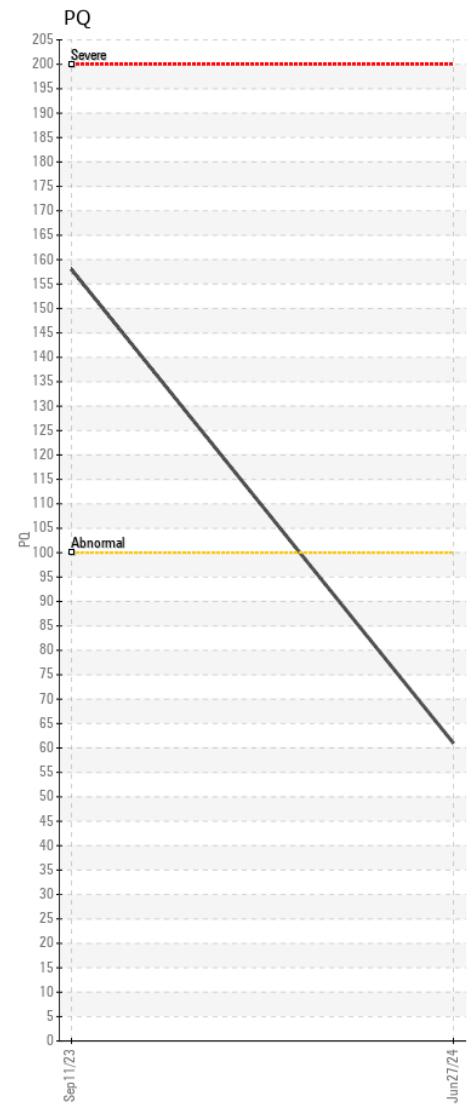
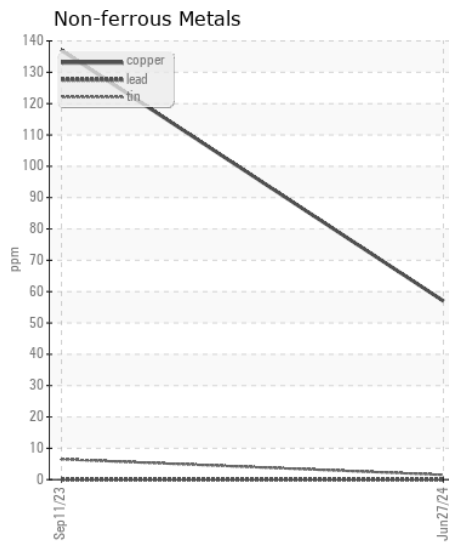
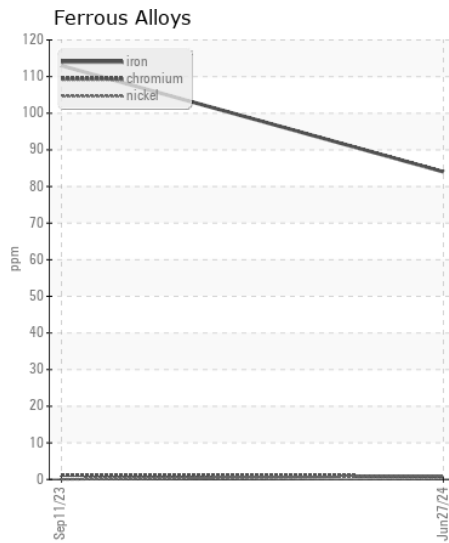
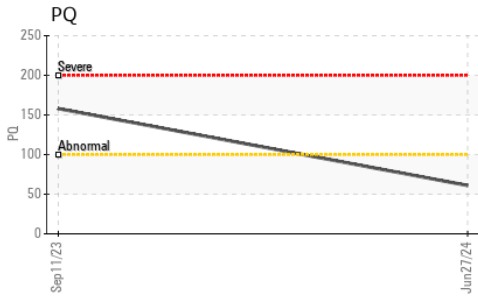
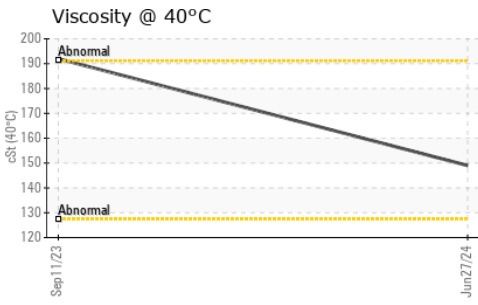
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	<b>14</b>	21	---
Potassium	ppm	ASTM D5185m	>20	<b>5</b>	<1	---
Water		WC Method	>.2	<b>NEG</b>	NEG	---
Silt	scalar	*Visual	NONE	<b>MODER</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual	>.2	<b>NEG</b>	NEG	---

### FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		<b>7</b>	12	---
Boron	ppm	ASTM D5185m		<b>8</b>	6	---
Barium	ppm	ASTM D5185m		<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m		<b>0</b>	0	---
Manganese	ppm	ASTM D5185m		<b>4</b>	7	---
Magnesium	ppm	ASTM D5185m		<b>4</b>	10	---
Calcium	ppm	ASTM D5185m		<b>20</b>	29	---
Phosphorus	ppm	ASTM D5185m		<b>822</b>	2370	---
Zinc	ppm	ASTM D5185m		<b>27</b>	102	---
Sulfur	ppm	ASTM D5185m		<b>25951</b>	31547	---
Visc @ 40°C	cSt	ASTM D445		<b>149</b>	192	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513

**Sample No.** : JR0225395

**Lab Number** : 06223755

**Unique Number** : 11101952

**Test Package** : CONST ( Additional Tests: PQ )

**Received** : 28 Jun 2024

**Tested** : 01 Jul 2024

**Diagnosed** : 01 Jul 2024 - Don Baldrige

**B & S SITE DEVLOPMENT**

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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)