



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

Machine Id  
**HITACHI HCMDAT60E00200673**  
 Component  
**Swing Drive Gear Case**  
 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>JR0225492</b>	JR0199311	---
Sample Date		Client Info		<b>27 Jun 2024</b>	20 Dec 2023	---
Machine Age	hrs	Client Info		<b>1249</b>	826	---
Oil Age	hrs	Client Info		<b>0</b>	826	---
Filter Age	hrs	Client Info		<b>0</b>	826	---
Oil Changed		Client Info		<b>Changed</b>	Not Changd	---
Filter Changed		Client Info		<b>N/A</b>	Not Changd	---
Sample Status				<b>NORMAL</b>	NORMAL	---

### WEAR

All component wear rates are normal.

PQ		ASTM D8184		<b>123</b>	44	---
Iron	ppm	ASTM D5185m	>200	<b>81</b>	61	---
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>	<1	---
Silver	ppm	ASTM D5185m		<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m		<b>2</b>	3	---
Lead	ppm	ASTM D5185m		<b>0</b>	0	---
Copper	ppm	ASTM D5185m		<b>2</b>	<1	---
Tin	ppm	ASTM D5185m		<b>0</b>	0	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

### CONTAMINATION

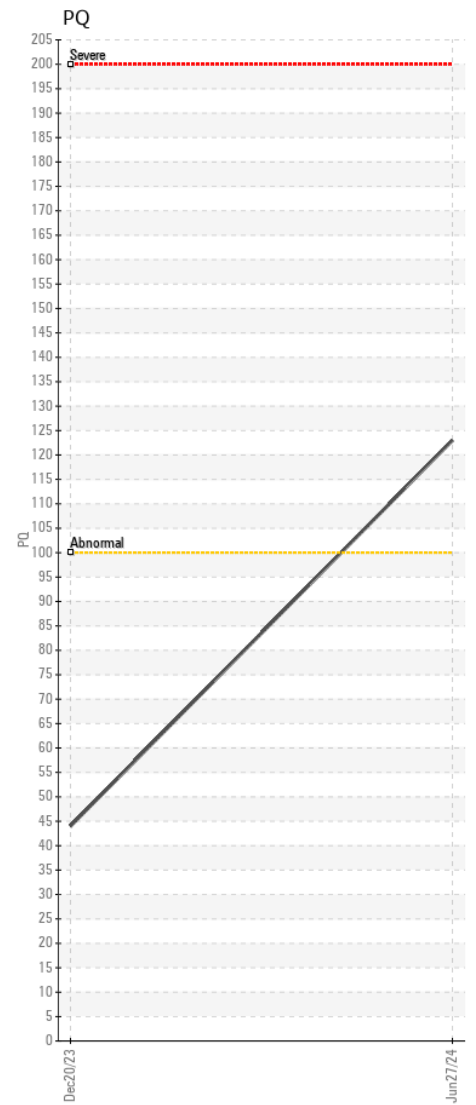
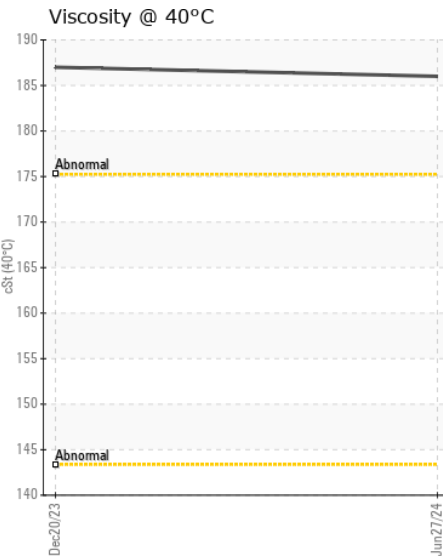
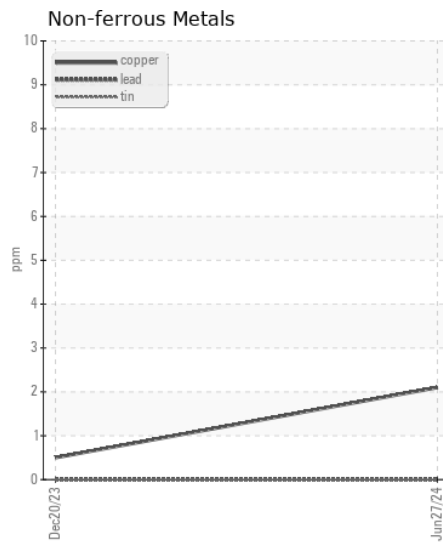
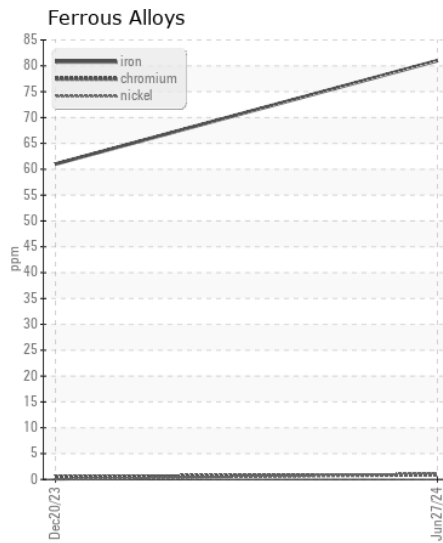
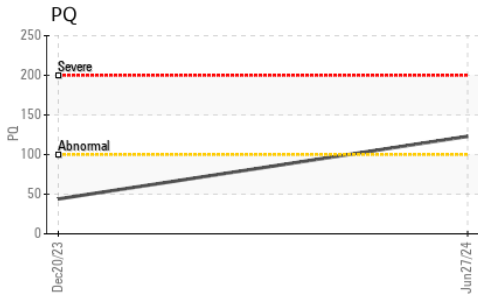
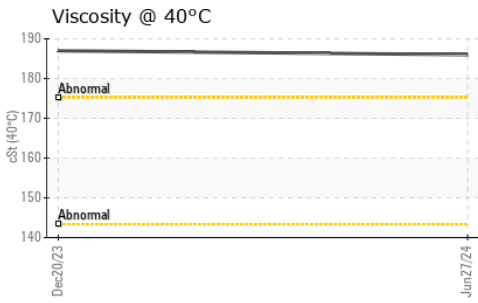
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m		<b>23</b>	20	---
Potassium	ppm	ASTM D5185m	>20	<b>6</b>	3	---
Water		WC Method	>0.2	<b>NEG</b>	NEG	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>LIGHT</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	>0.2	<b>NEG</b>	NEG	---

### FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		<b>3</b>	0	---
Boron	ppm	ASTM D5185m		<b>61</b>	71	---
Barium	ppm	ASTM D5185m		<b>11</b>	3	---
Molybdenum	ppm	ASTM D5185m		<b>0</b>	0	---
Manganese	ppm	ASTM D5185m		<b>3</b>	2	---
Magnesium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Calcium	ppm	ASTM D5185m		<b>24</b>	7	---
Phosphorus	ppm	ASTM D5185m		<b>522</b>	556	---
Zinc	ppm	ASTM D5185m		<b>12</b>	4	---
Sulfur	ppm	ASTM D5185m		<b>19189</b>	18061	---
Visc @ 40°C	cSt	ASTM D445		<b>186</b>	187	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0225492 **Received** : 28 Jun 2024  
**Lab Number** : 06223754 **Tested** : 01 Jul 2024  
**Unique Number** : 11101951 **Diagnosed** : 01 Jul 2024 - Don Baldrige  
**Test Package** : CONST ( Additional Tests: PQ )

**JRE - MANASSAS PARK**  
 9107 OWENS DRIVE  
 MANASSAS PARK, VA  
 US 20111

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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)