



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

Machine Id  
**HITACHI HCMDFD60T00700147**  
 Component  
**Swing Drive Gear Case**  
 Fluid  
**JOHN DEERE GL-5 80W90 (6 QTS)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0226531</b>	JR0211131	JR0182099
Sample Date		Client Info		<b>12 Jul 2024</b>	29 Mar 2024	11 Aug 2023
Machine Age	hrs	Client Info		<b>7377</b>	6922	6441
Oil Age	hrs	Client Info		<b>455</b>	5451	5461
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>None</b>	None	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

PQ		ASTM D8184		<b>22</b>	54	34
Iron	ppm	ASTM D5185m	>200	<b>116</b>	107	77
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m		<b>3</b>	<1	0
Lead	ppm	ASTM D5185m		<b>0</b>	0	0
Copper	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Tin	ppm	ASTM D5185m		<b>0</b>	<1	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

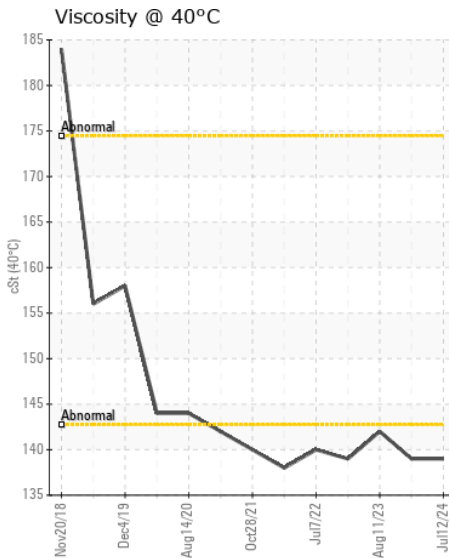
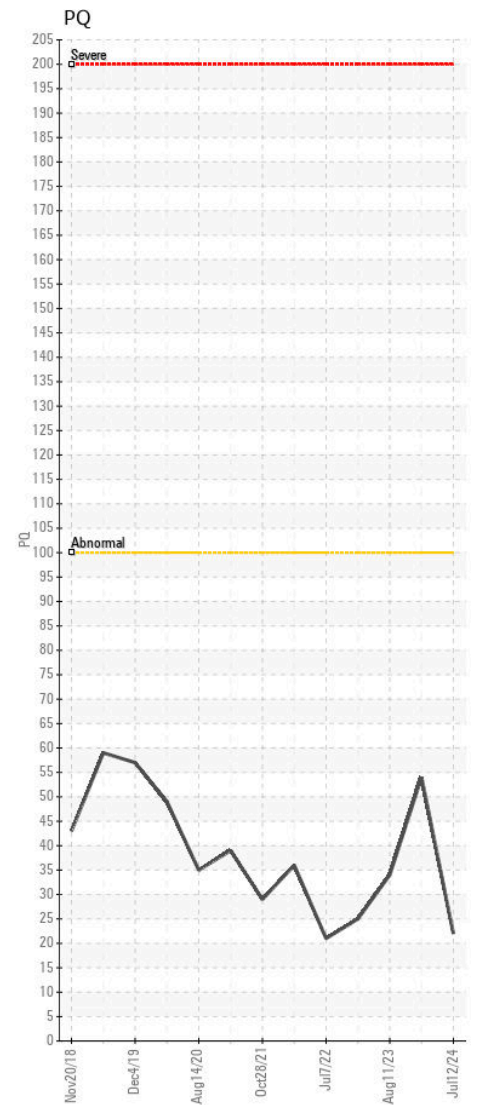
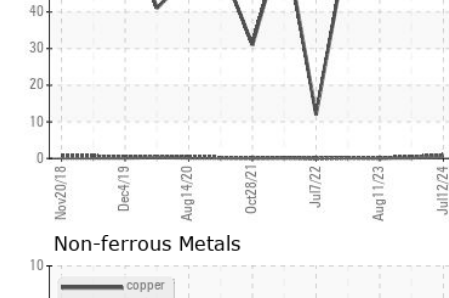
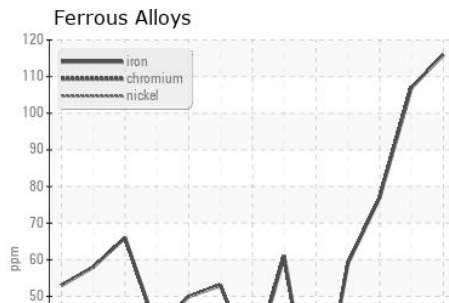
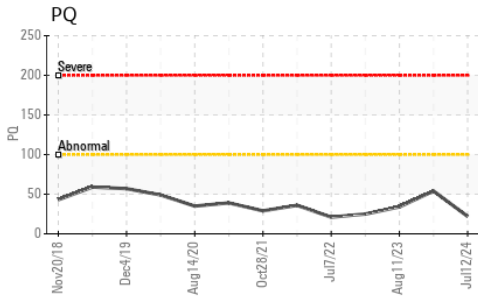
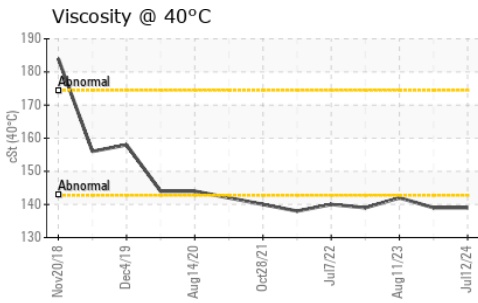
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m		<b>30</b>	6	5
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	<1	<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>	1	1
Boron	ppm	ASTM D5185m		<b>7</b>	<1	6
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	1	5
Manganese	ppm	ASTM D5185m		<b>1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>3</b>	6	24
Calcium	ppm	ASTM D5185m		<b>13</b>	89	51
Phosphorus	ppm	ASTM D5185m		<b>487</b>	329	343
Zinc	ppm	ASTM D5185m		<b>27</b>	44	27
Sulfur	ppm	ASTM D5185m		<b>17809</b>	20257	20669
Visc @ 40°C	cSt	ASTM D445		<b>139</b>	139	142



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0226531 **Received** : 15 Jul 2024  
**Lab Number** : 06236396 **Tested** : 16 Jul 2024  
**Unique Number** : 11125230 **Diagnosed** : 17 Jul 2024 - Sean Felton  
**Test Package** : CONST ( Additional Tests: PQ )

**CWS-STRITTMATTER**  
 9102 OWENS DR  
 MANASSAS PARK, VA  
 US 20111

Contact: EDDIE GARRETSON  
 egarretson@strittmattercompanies.com

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)

T: (703)335-2255  
 F: (703)335-8095