



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

Machine Id  
**JOHN DEERE 50G 1FF050GXCMH294166**  
 Component  
**Right Final Drive**  
 Fluid  
**JOHN DEERE GL-5 80W90 (1 QTS)**

### RECOMMENDATION

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0218361</b>	JR0183891	JR0166361
Sample Date		Client Info		<b>14 Jun 2024</b>	29 Aug 2023	24 Mar 2023
Machine Age	hrs	Client Info		<b>2446</b>	1956	1484
Oil Age	hrs	Client Info		<b>490</b>	0	1484
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>	N/A	None
Sample Status				<b>ABNORMAL</b>	SEVERE	SEVERE

### WEAR

All component wear rates are normal.

PQ		ASTM D8184	>1250	<b>117</b>	691	406
Iron	ppm	ASTM D5185m	>750	<b>437</b>	▲ 2412	▲ 1321
Chromium	ppm	ASTM D5185m	>9	<b>5</b>	▲ 32	▲ 20
Nickel	ppm	ASTM D5185m	>10	<b>4</b>	▲ 13	6
Titanium	ppm	ASTM D5185m		<b>2</b>	▲ 11	8
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>40	<b>17</b>	● 133	● 104
Lead	ppm	ASTM D5185m	>15	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>40	<b>3</b>	8	5
Tin	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

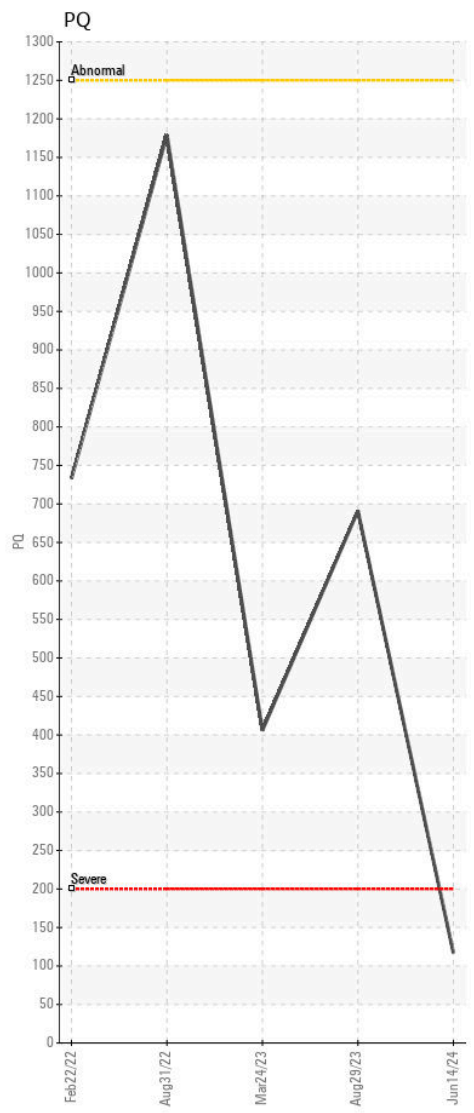
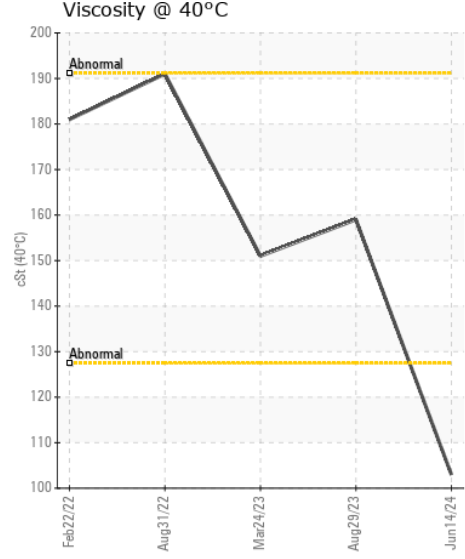
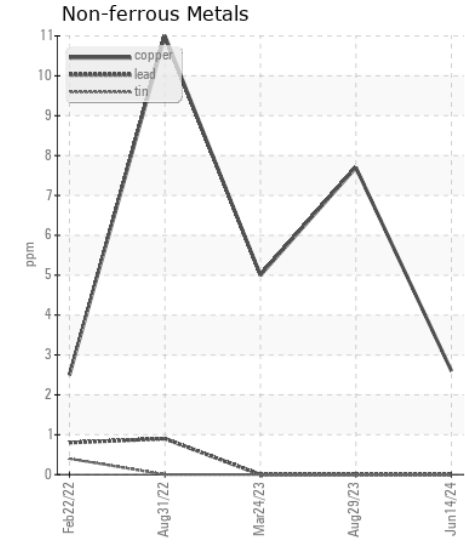
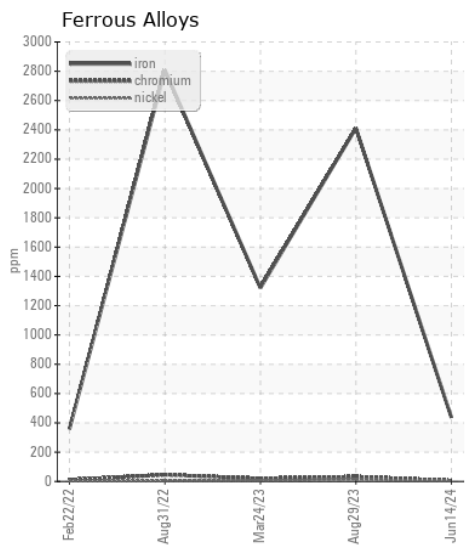
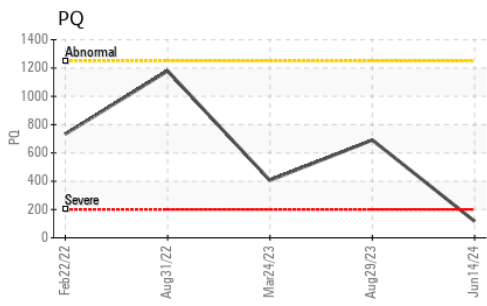
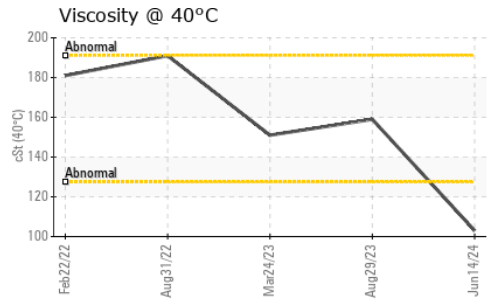
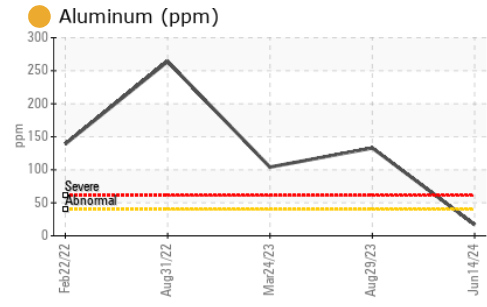
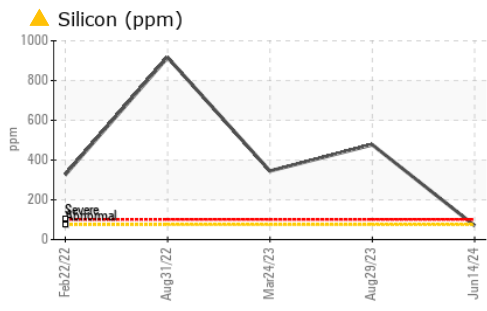
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>75	<b>70</b>	▲ 477	▲ 345
Potassium	ppm	ASTM D5185m	>20	<b>13</b>	63	48
Water		WC Method	>0.075	<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	>0.075	<b>NEG</b>	▲ 0.2%	NEG

### FLUID CONDITION

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

Sodium	ppm	ASTM D5185m	>51	<b>5</b>	19	14
Boron	ppm	ASTM D5185m		<b>23</b>	25	17
Barium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Molybdenum	ppm	ASTM D5185m		<b>13</b>	1	1
Manganese	ppm	ASTM D5185m		<b>4</b>	25	16
Magnesium	ppm	ASTM D5185m		<b>19</b>	28	21
Calcium	ppm	ASTM D5185m		<b>307</b>	35	33
Phosphorus	ppm	ASTM D5185m		<b>501</b>	406	378
Zinc	ppm	ASTM D5185m		<b>210</b>	115	78
Sulfur	ppm	ASTM D5185m		<b>18566</b>	21414	20153
Visc @ 40°C	cSt	ASTM D445		<b>103</b>	159	151



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0218361 **Received** : 17 Jun 2024  
**Lab Number** : 06212075 **Tested** : 18 Jun 2024  
**Unique Number** : 11084939 **Diagnosed** : 19 Jun 2024 - Sean Felton  
**Test Package** : CONST ( Additional Tests: PQ )

**B & S SITE DEVELOPMENT**  
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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)