



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

Area  
**[W52279]**

Machine Id  
**JOHN DEERE 333G 1T0333GMCMF402595**

Component  
**Left Final Drive**

Fluid  
**JOHN DEERE GL-5 80W90 (--- GAL)**

### RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0211766</b>	JR0165831	JR0147053
Sample Date		Client Info		<b>18 Jun 2024</b>	25 Apr 2023	05 Jan 2023
Machine Age	hrs	Client Info		<b>2247</b>	1477	989
Oil Age	hrs	Client Info		<b>747</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Not Changed</b>	N/A	N/A
Sample Status				<b>SEVERE</b>	SEVERE	ABNORMAL

### WEAR

Gear wear is indicated.

PQ		ASTM D8184	>1250	<b>119</b>	92	157
Iron	ppm	ASTM D5185m	>750	<b>▲ 2406</b>	▲ 1482	▲ 922
Chromium	ppm	ASTM D5185m	>9	<b>▲ 27</b>	▲ 20	11
Nickel	ppm	ASTM D5185m	>10	<b>9</b>	7	2
Titanium	ppm	ASTM D5185m		<b>4</b>	1	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>40	<b>● 46</b>	16	8
Lead	ppm	ASTM D5185m	>15	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>40	<b>3</b>	2	2
Tin	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	MODER	MODER
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

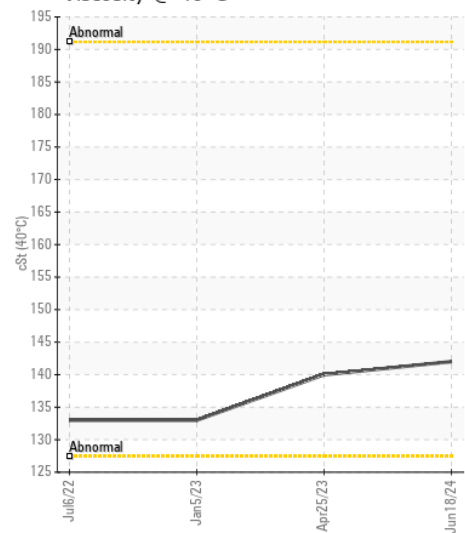
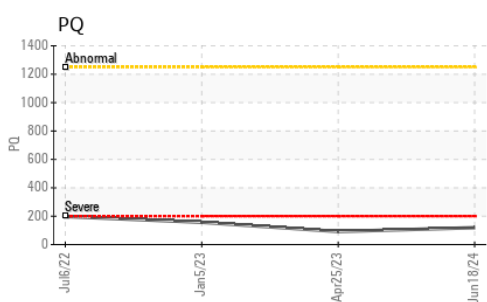
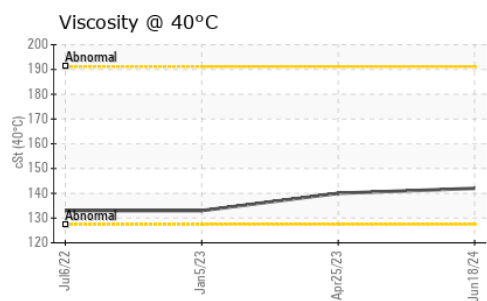
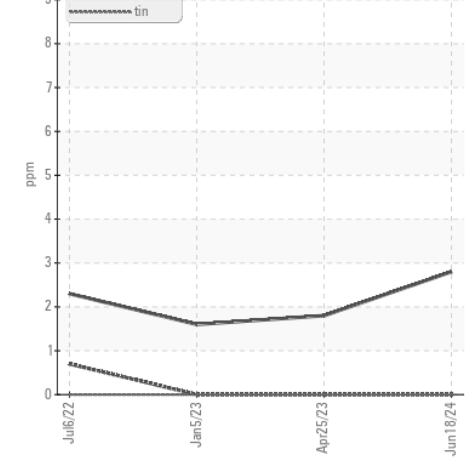
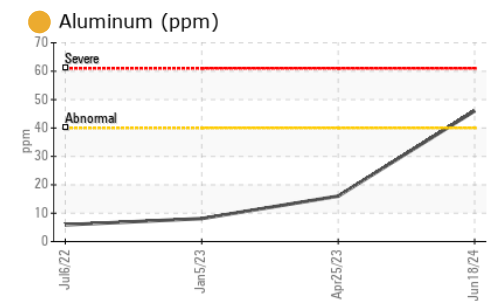
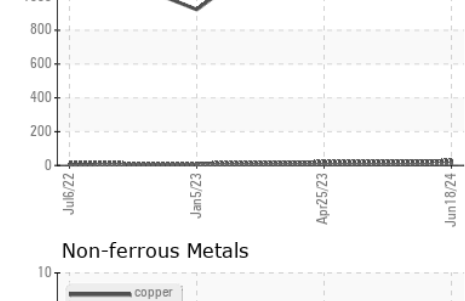
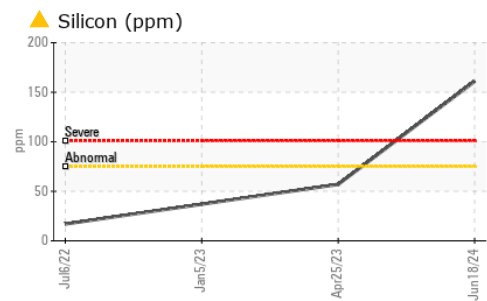
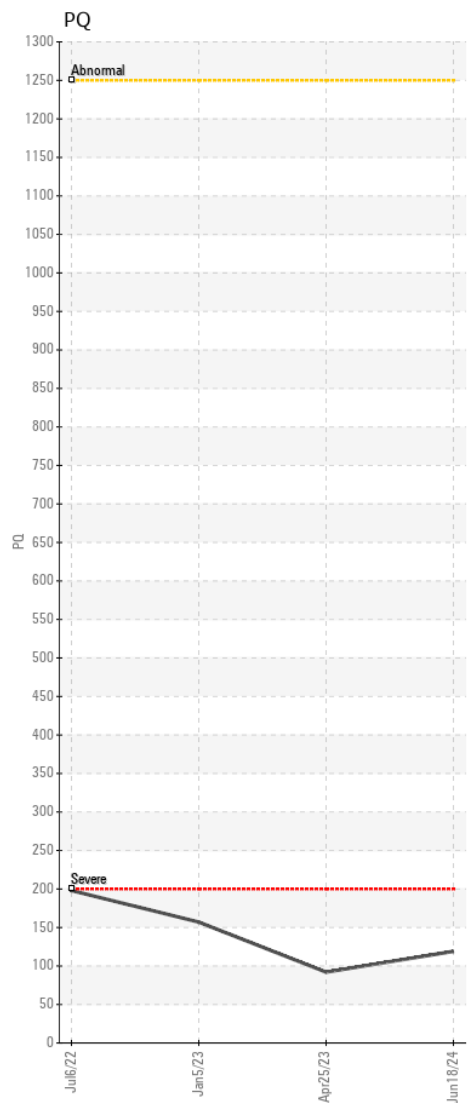
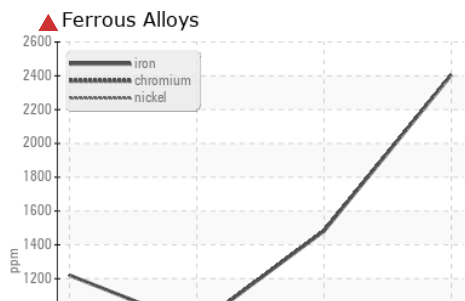
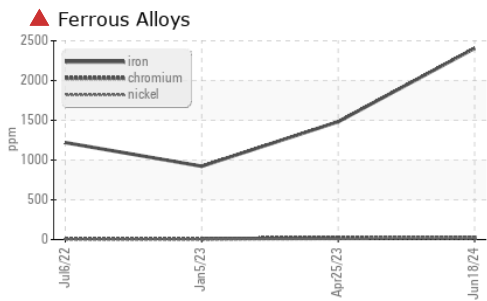
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>75	<b>▲ 161</b>	57	37
Potassium	ppm	ASTM D5185m	>20	<b>15</b>	16	20
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>	NEG	NEG

### FLUID CONDITION

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Sodium	ppm	ASTM D5185m	>51	<b>6</b>	5	3
Boron	ppm	ASTM D5185m		<b>17</b>	26	46
Barium	ppm	ASTM D5185m		<b>6</b>	20	38
Molybdenum	ppm	ASTM D5185m		<b>3</b>	2	2
Manganese	ppm	ASTM D5185m		<b>17</b>	13	9
Magnesium	ppm	ASTM D5185m		<b>5</b>	7	6
Calcium	ppm	ASTM D5185m		<b>20</b>	19	27
Phosphorus	ppm	ASTM D5185m		<b>312</b>	503	413
Zinc	ppm	ASTM D5185m		<b>14</b>	25	32
Sulfur	ppm	ASTM D5185m		<b>20681</b>	23777	17090
Visc @ 40°C	cSt	ASTM D445		<b>142</b>	140	133



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0211766 **Received** : 19 Jun 2024  
**Lab Number** : 06214963 **Tested** : 20 Jun 2024  
**Unique Number** : 11087827 **Diagnosed** : 21 Jun 2024 - Sean Felton  
**Test Package** : CONST ( Additional Tests: PQ )

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Certificate L2367  
 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)