



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

Machine Id  
**JOHN DEERE 245G 1FF245GXCGF800133**  
 Component  
**Right Final Drive**  
 Fluid  
**JOHN DEERE GL-5 80W90 (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0221116</b>	JR0186132	JR0163417
Sample Date		Client Info		<b>27 Jun 2024</b>	30 Oct 2023	21 Mar 2023
Machine Age	hrs	Client Info		<b>4645</b>	4233	4158
Oil Age	hrs	Client Info		<b>412</b>	0	1000
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>N/A</b>	N/A	Changed
Sample Status				<b>NORMAL</b>	SEVERE	SEVERE

**WEAR**

All component wear rates are normal.

PQ		ASTM D8184	>1250	<b>116</b>	88	14
Iron	ppm	ASTM D5185m	>750	<b>403</b>	▲ 1016	▲ 1610
Chromium	ppm	ASTM D5185m	>9	<b>3</b>	6	▲ 13
Nickel	ppm	ASTM D5185m	>10	<b>1</b>	2	2
Titanium	ppm	ASTM D5185m		<b>1</b>	2	4
Silver	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m	>40	<b>8</b>	● 14	● 32
Lead	ppm	ASTM D5185m	>15	<b>&lt;1</b>	0	0
Copper	ppm	ASTM D5185m	>40	<b>1</b>	2	4
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>MODER</b>	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

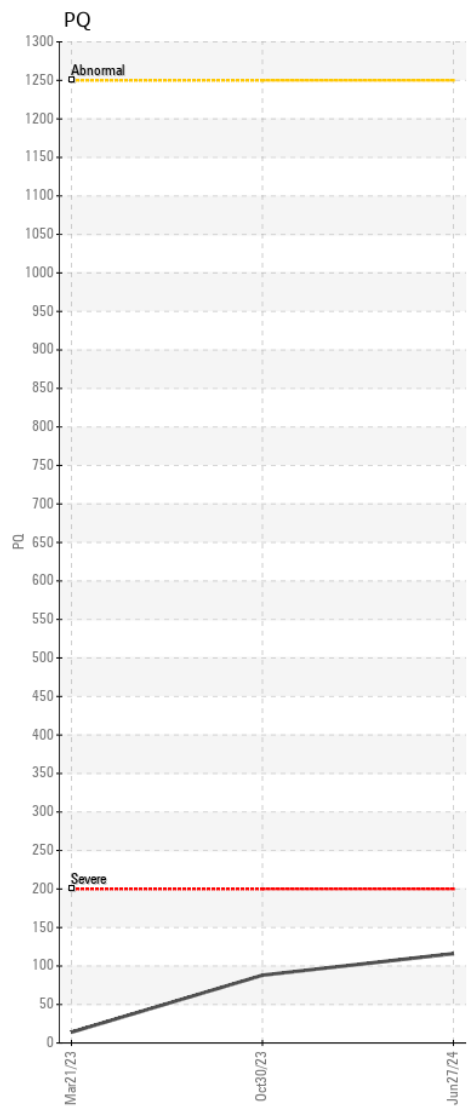
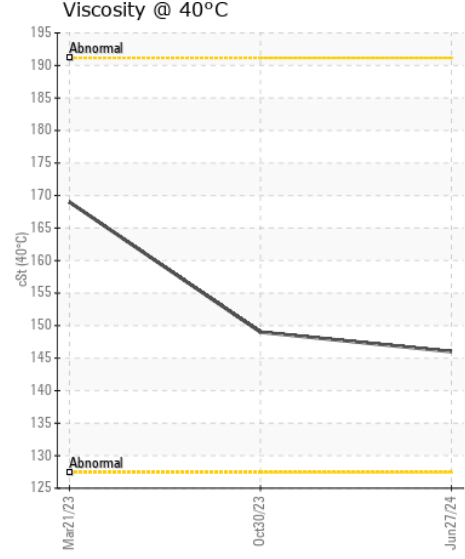
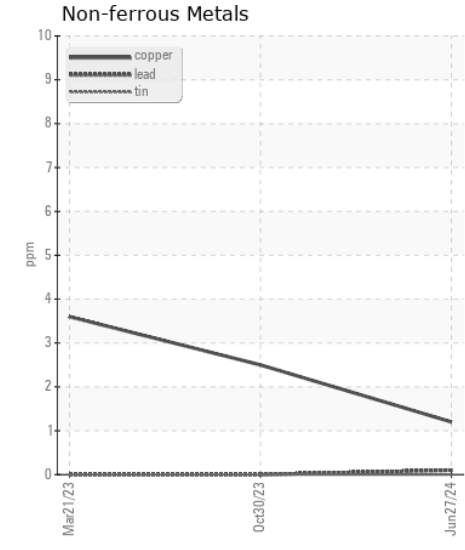
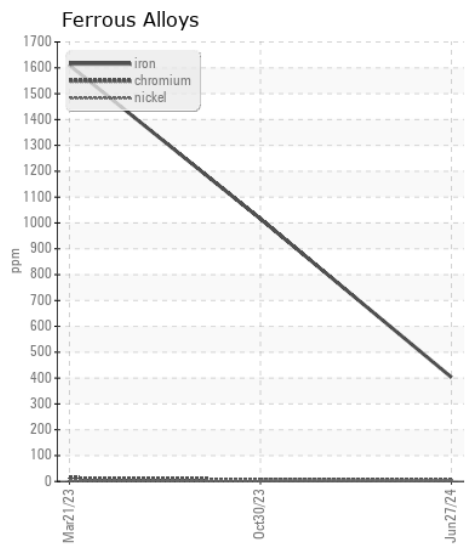
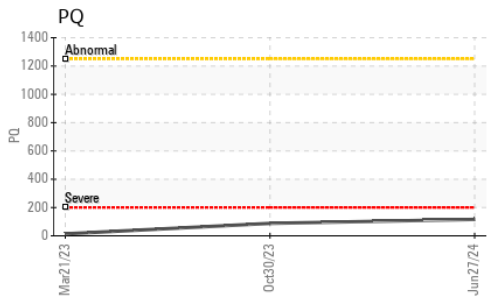
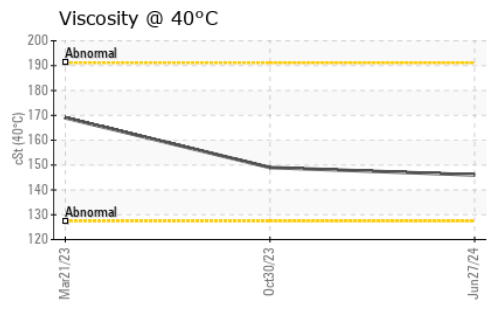
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	<b>61</b>	▲ 113	▲ 264
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	6	5
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 condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m	>51	<b>2</b>	2	2
Boron	ppm	ASTM D5185m		<b>9</b>	9	16
Barium	ppm	ASTM D5185m		<b>&lt;1</b>	1	1
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	<1	1
Manganese	ppm	ASTM D5185m		<b>3</b>	7	13
Magnesium	ppm	ASTM D5185m		<b>3</b>	4	2
Calcium	ppm	ASTM D5185m		<b>3</b>	37	11
Phosphorus	ppm	ASTM D5185m		<b>2360</b>	1929	466
Zinc	ppm	ASTM D5185m		<b>18</b>	13	21
Sulfur	ppm	ASTM D5185m		<b>26181</b>	31642	16705
Visc @ 40°C	cSt	ASTM D445		<b>146</b>	149	● 169



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0221116 **Received** : 01 Jul 2024  
**Lab Number** : 06224783 **Tested** : 02 Jul 2024  
**Unique Number** : 11102980 **Diagnosed** : 02 Jul 2024 - Don Baldridge  
**Test Package** : CONST ( Additional Tests: PQ )

**JRE - NEW BERN**  
 3816 MARTIN LUTHER KING BLVD  
 NEW BERN, NC  
 US 28562  
 Contact: NEW BERN SHOP  
 nick.etherdridge@jamesriverequipment.com; canastasio@wearcheckusa.com

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)