



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



Machine Id  
**JOHN DEERE 844K DW844KX626817**  
Component  
**Front Differential**  
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. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0202881</b>	JR0183248	JR0173589
Sample Date		Client Info		<b>06 Feb 2024</b>	27 Sep 2023	29 Jun 2023
Machine Age	hrs	Client Info		<b>27335</b>	26863	26393
Oil Age	hrs	Client Info		<b>27335</b>	26863	505
Filter Age	hrs	Client Info		<b>0</b>	0	505
Oil Changed		Client Info		<b>Changed</b>	Not Changd	Oil Added
Filter Changed		Client Info		<b>Changed</b>	Not Changd	Not Changd
Sample Status				<b>ABNORMAL</b>	SEVERE	SEVERE

### WEAR

All component wear rates are normal.

PQ		ASTM D8184		<b>648</b>	4161	934
Iron	ppm	ASTM D5185m	>1501	<b>2796</b>	9005	3295
Chromium	ppm	ASTM D5185m	>11	<b>26</b>	106	31
Nickel	ppm	ASTM D5185m	>10	<b>21</b>	105	39
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	1	2
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>21	<b>41</b>	260	73
Lead	ppm	ASTM D5185m	>51	<b>0</b>	10	5
Copper	ppm	ASTM D5185m	>101	<b>67</b>	717	269
Tin	ppm	ASTM D5185m	>10	<b>0</b>	2	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

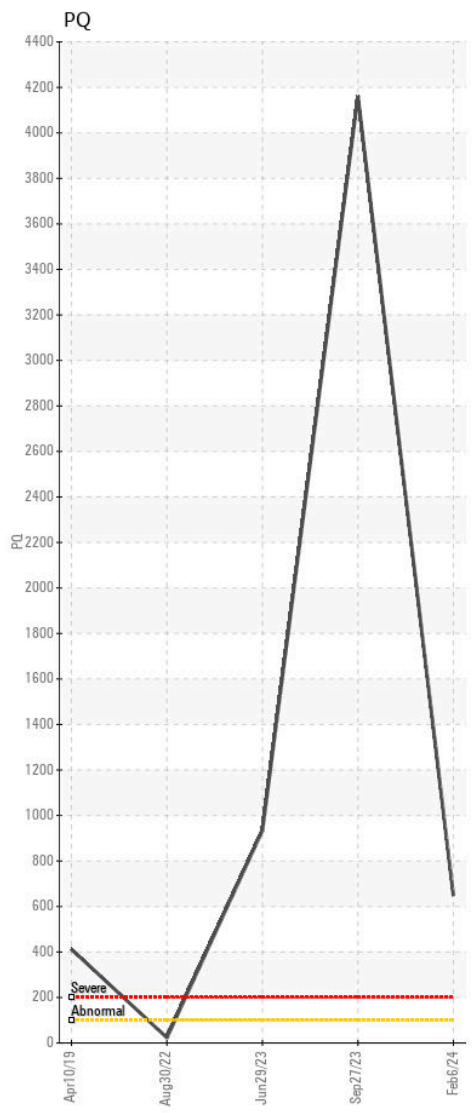
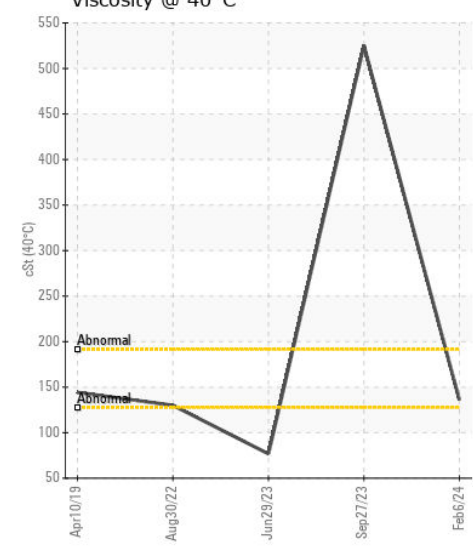
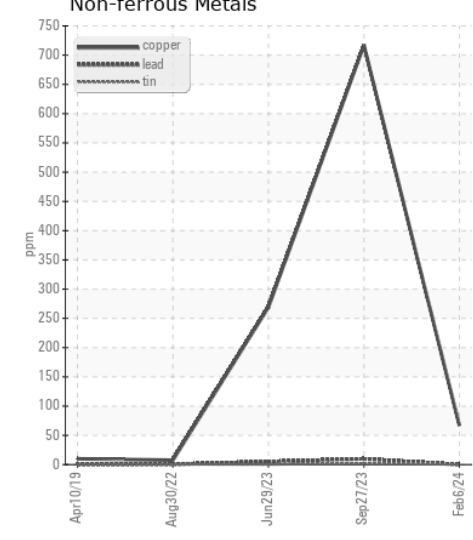
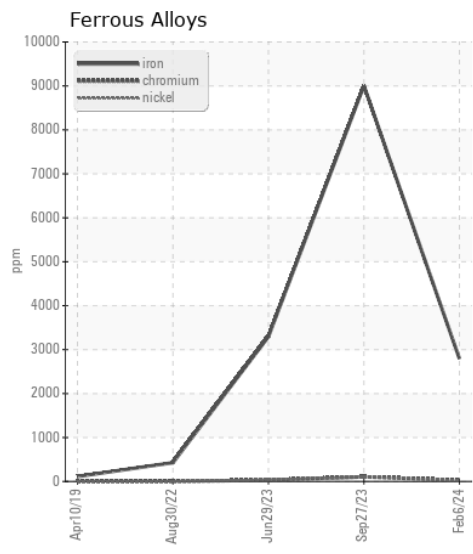
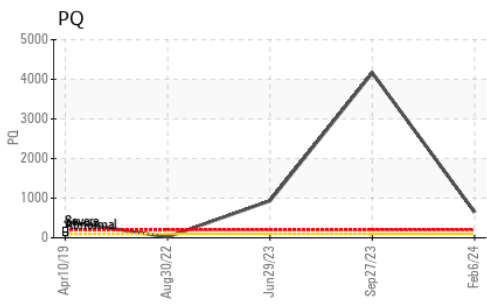
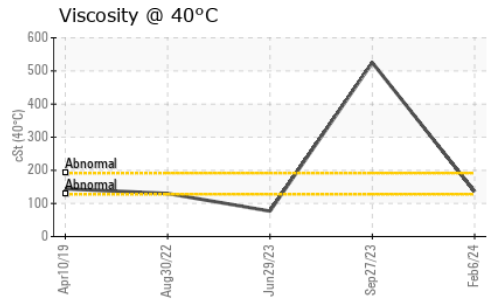
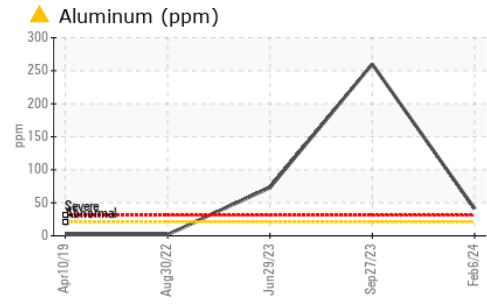
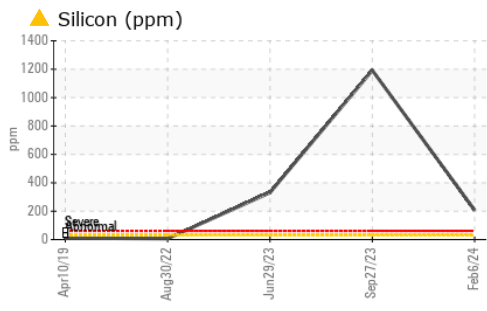
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>31	<b>207</b>	1192	331
Potassium	ppm	ASTM D5185m	>20	<b>11</b>	58	18
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	MODER
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	>0.1	<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>50</b>	92	25
Boron	ppm	ASTM D5185m		<b>19</b>	98	116
Barium	ppm	ASTM D5185m		<b>&lt;1</b>	0	3
Molybdenum	ppm	ASTM D5185m		<b>5</b>	10	4
Manganese	ppm	ASTM D5185m		<b>24</b>	81	28
Magnesium	ppm	ASTM D5185m		<b>31</b>	70	78
Calcium	ppm	ASTM D5185m		<b>223</b>	1158	2451
Phosphorus	ppm	ASTM D5185m		<b>2315</b>	754	1125
Zinc	ppm	ASTM D5185m		<b>135</b>	391	802
Sulfur	ppm	ASTM D5185m		<b>24153</b>	13926	10994
Visc @ 40°C	cSt	ASTM D445		<b>136</b>	525	76.8



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0202881 **Received** : 07 Feb 2024  
**Lab Number** : 06082776 **Tested** : 12 Feb 2024  
**Unique Number** : 10870221 **Diagnosed** : 12 Feb 2024 - Jonathan Hester  
**Test Package** : CONST ( Additional Tests: PQ )

**JRE - GARNER**  
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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)