

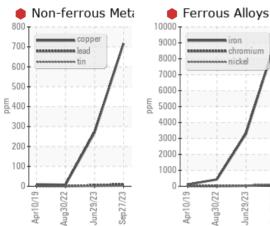
# **PROBLEM SUMMARY**

JOHN DEERE 844K DW844KX626817

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

Sample Rating Trend WEAR

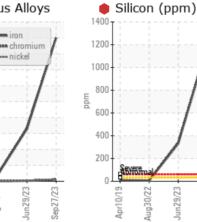
# COMPONENT CONDITION SUMMARY

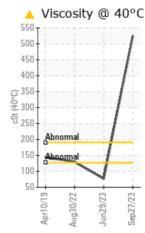


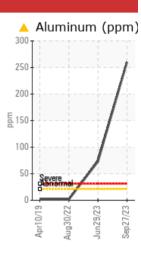
Area [W7887]

Front Differential

Component







# RECOMMENDATION

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. ( Customer Sample Comment: W7887)

PROBLEMATIC TEST RESULTS							
Sample Status				SEVERE	SEVERE	NORMAL	
Iron	ppm	ASTM D5185m	>1501	9005 🛑	• 3295	427	
Chromium	ppm	ASTM D5185m	>11	🛑 106	931	1	
Nickel	ppm	ASTM D5185m	>10	🛑 105	• 39	2	
Aluminum	ppm	ASTM D5185m	>21	🔺 260	<b>A</b> 73	2	
Copper	ppm	ASTM D5185m	>101	<b>•</b> 717	<b>e</b> 269	8	
Silicon	ppm	ASTM D5185m	>31	🛑 1192	<b>ම</b> 331	6	
Visc @ 40°C	cSt	ASTM D445		🔺 525	<b>▲</b> 76.8	130	

Sep27/23

Jun29/23

Customer Id: RWMGAR Sample No.: JR0183248 Lab Number: 05968005 Test Package: MOBCE



To manage this report scan the QR code

To discuss the diagnosis or test data: Don Baldridge +1 don.b505@comcast.net

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED A	CTIONS			
Action	Status	Date	Done By	Description
Inspect Wear Source			?	We advise that you inspect for the source(s) of wear.
Change Fluid			?	We recommend that you drain the oil from the component if this has not already been done.
Resample			?	We recommend an early resample to monitor this condition.
Check Dirt Access			?	We advise that you check all areas where dirt can enter the system.

# HISTORICAL DIAGNOSIS



# 29 Jun 2023 Diag: Don Baldridge

30 Aug 2022 Diag: Don Baldridge

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.Gear wear is indicated. Bearing and/or bushing wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The oil viscosity is lower than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type. The oil is no longer serviceable due to the presence of contaminants.





Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.



### 10 Apr 2019 Diag: Don Baldridge

#### NORMAL



Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.





# **OIL ANALYSIS REPORT**

Sample Rating Trend

WEAR

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**[W7887]** Machine Id **JOHN DEERE 844K DW844KX626817** Component **Front Differential** 

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

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# Recommendation

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. (Customer Sample Comment: W7887)

### 🛑 Wear

Gear wear is indicated. Bearing and/or bushing wear is indicated.

## Contamination

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

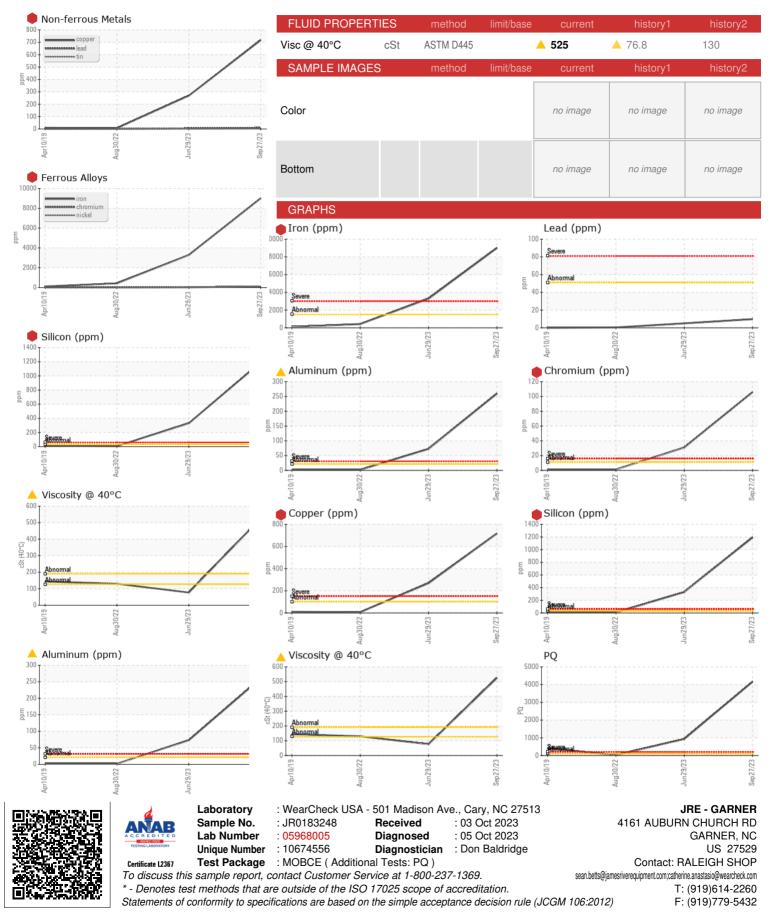
# Fluid Condition

The oil viscosity is higher than normal. The oil is no longer serviceable due to the presence of contaminants.

. ,		Apr201	9 Aug2022	Jun2023	Sep 2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		JR0183248	JR0173589	JR0138957
Sample Date		Client Info		27 Sep 2023	29 Jun 2023	30 Aug 2022
Machine Age	hrs	Client Info		26863	26393	24812
Oil Age	hrs	Client Info		26863	505	24812
Oil Changed		Client Info		Not Changd	Oil Added	Not Changd
Sample Status				SEVERE	SEVERE	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		4161	934	23
Iron	ppm	ASTM D5185m	>1501	9005	9 3295	427
Chromium	ppm	ASTM D5185m	>11	<b>●</b> 106	• 31	1
Nickel	ppm	ASTM D5185m	>10	<b>105</b>	• 39	2
Titanium	ppm	ASTM D5185m		1	2	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>21	<b>260</b>	<b>▲</b> 73	2
Lead	ppm	ASTM D5185m		10	5	<1
Copper	ppm	ASTM D5185m	>101	<b>717</b>	269	8
Tin	ppm	ASTM D5185m		2	0	<1
Antimony	ppm	ASTM D5185m	>5			
Vanadium	ppm	ASTM D5185m	20	<1	<1	<1
Cadmium	ppm	ASTM D5185m		<1	<1	0
ADDITIVES	le le	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	in the babb	98	116	72
Barium	ppm	ASTM D5185m		0	3	0
Molybdenum	ppm	ASTM D5185m		10	4	<1
Manganese	ppm	ASTM D5185m		81	→ <u></u> 28	3
Magnesium		ASTM D5185m		70	▲ 78	<1
0	ppm					
Calcium	ppm	ASTM D5185m		1158	<b>4</b> 2451	6
Phosphorus	ppm	ASTM D5185m		754	▲ 1125	617
Zinc	ppm	ASTM D5185m		391	▲ 802	13
Sulfur	ppm	ASTM D5185m		13926	▲ 10994	16000
CONTAMINANTS		method	limit/base		history1	history2
Silicon	ppm	ASTM D5185m	>31	<b>1192</b>	9 331	6
Sodium	ppm	ASTM D5185m	>51	92	25	4
Potassium	ppm	ASTM D5185m	>20	58	18	3
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	MODER	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG



# **OIL ANALYSIS REPORT**



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