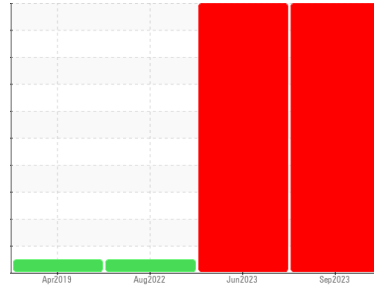


PROBLEM SUMMARY

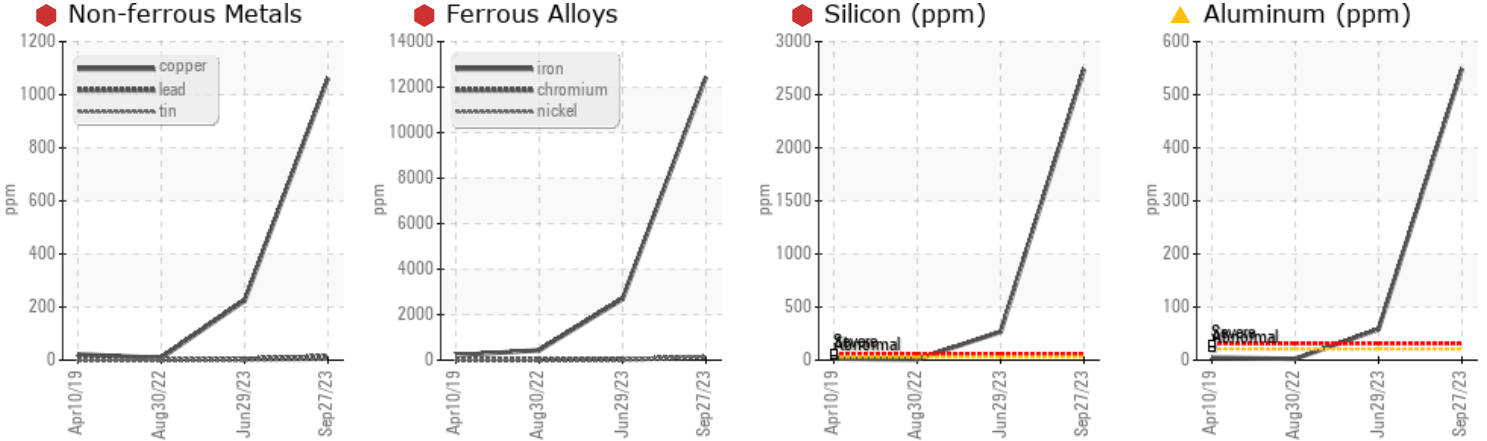


Area
[W7887]
Machine Id
JOHN DEERE 844K DW844KX626817
Component
Rear Differential
Fluid
JOHN DEERE GL-5 80W90 (--- GAL)

Sample Rating Trend



COMPONENT CONDITION SUMMARY



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	🔴 12433	🟡 2684	435
Chromium	ppm	ASTM D5185m	>11	🔴 136	🔴 25	1
Nickel	ppm	ASTM D5185m	>10	🔴 133	🔴 30	2
Aluminum	ppm	ASTM D5185m	>21	🟡 549	🟡 58	2
Copper	ppm	ASTM D5185m	>101	🔴 1062	🔴 224	8
Silicon	ppm	ASTM D5185m	>31	🔴 2739	🔴 266	9

Customer Id: RWMGAR
Sample No.: JR0183254
Lab Number: 05968018
Test Package: MOBCE



To manage this report scan the QR code

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

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

RECOMMENDED ACTIONS

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 Baldrige

WEAR



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.

[view report](#)



30 Aug 2022 Diag: Don Baldrige

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.

[view report](#)



10 Apr 2019 Diag: Don Baldrige

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.

[view report](#)

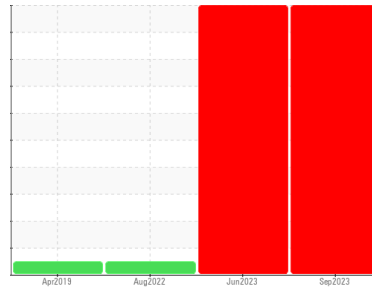


OIL ANALYSIS REPORT



Area
[W7887]
Machine Id
JOHN DEERE 844K DW844KX626817
Component
Rear Differential
Fluid
JOHN DEERE GL-5 80W90 (--- GAL)

Sample Rating Trend



WEAR



DIAGNOSIS

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 is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		JR0183254	JR0173592	JR0138958
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 Chngd	Oil Added	Not Chngd
Sample Status			SEVERE	SEVERE	NORMAL

WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184		6235	771	18
Iron	ppm	ASTM D5185m >1501	12433	2684	435
Chromium	ppm	ASTM D5185m >11	136	25	1
Nickel	ppm	ASTM D5185m >10	133	30	2
Titanium	ppm	ASTM D5185m	12	2	<1
Silver	ppm	ASTM D5185m	0	0	0
Aluminum	ppm	ASTM D5185m >21	549	58	2
Lead	ppm	ASTM D5185m >51	14	4	<1
Copper	ppm	ASTM D5185m >101	1062	224	8
Tin	ppm	ASTM D5185m >10	3	0	0
Antimony	ppm	ASTM D5185m >5	---	---	---
Vanadium	ppm	ASTM D5185m	2	0	<1
Cadmium	ppm	ASTM D5185m	1	<1	<1

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	131	97	70
Barium	ppm	ASTM D5185m	2	3	0
Molybdenum	ppm	ASTM D5185m	13	3	<1
Manganese	ppm	ASTM D5185m	120	22	3
Magnesium	ppm	ASTM D5185m	127	64	<1
Calcium	ppm	ASTM D5185m	1337	2100	7
Phosphorus	ppm	ASTM D5185m	812	938	615
Zinc	ppm	ASTM D5185m	430	670	14
Sulfur	ppm	ASTM D5185m	13069	9123	15938

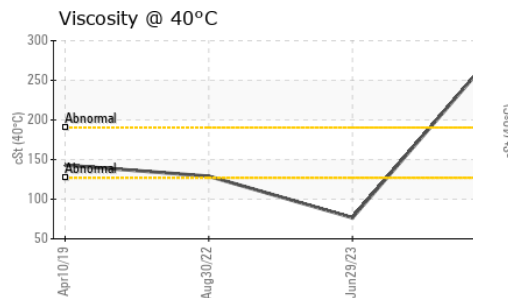
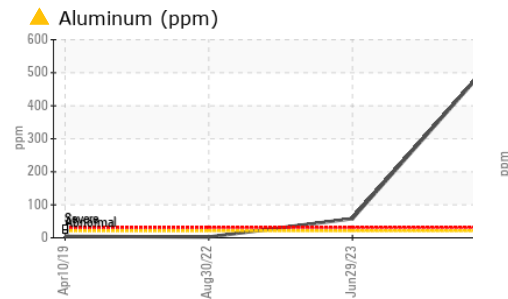
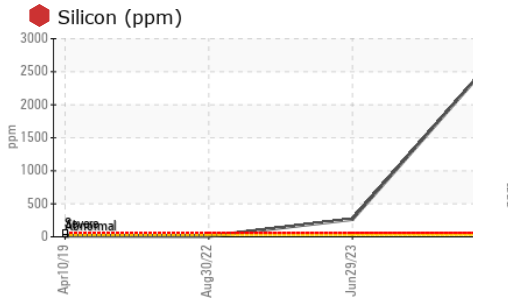
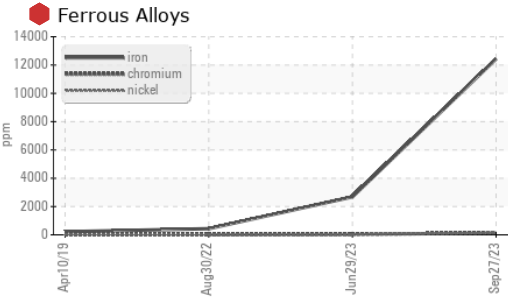
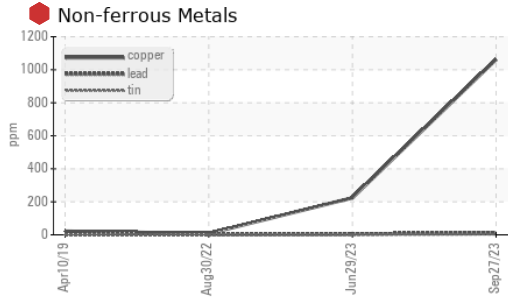
CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >31	2739	266	9
Sodium	ppm	ASTM D5185m >51	236	19	4
Potassium	ppm	ASTM D5185m >20	179	15	3

VISUAL

	method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	LIGHT	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

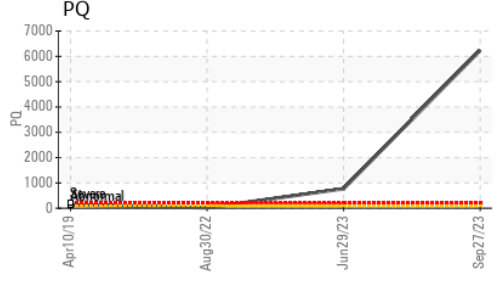
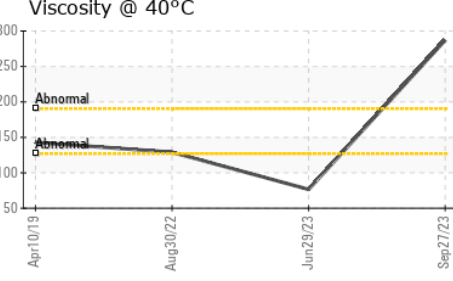
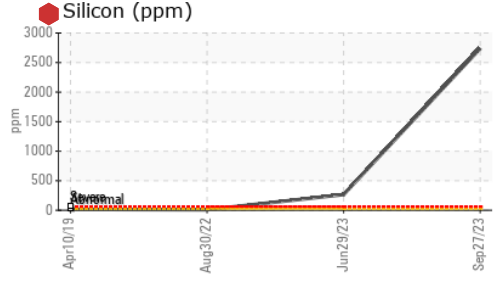
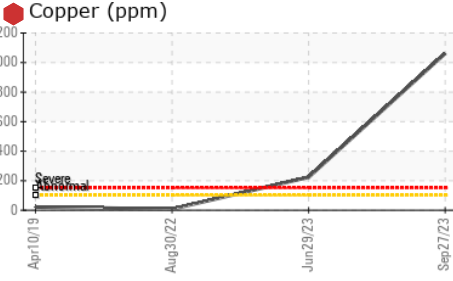
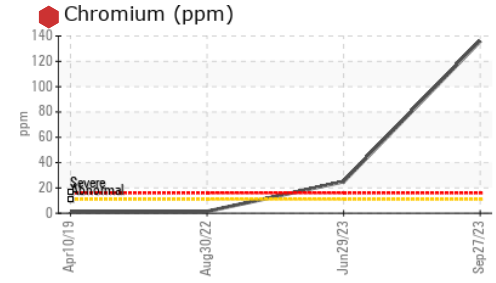
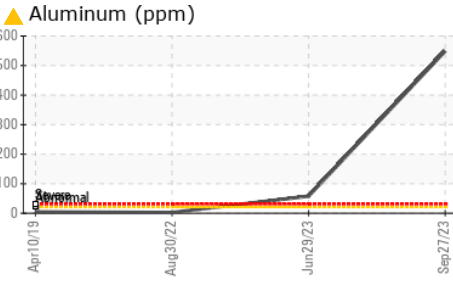
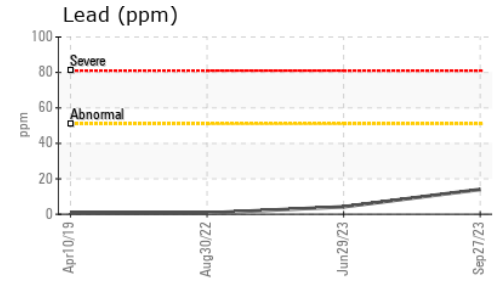
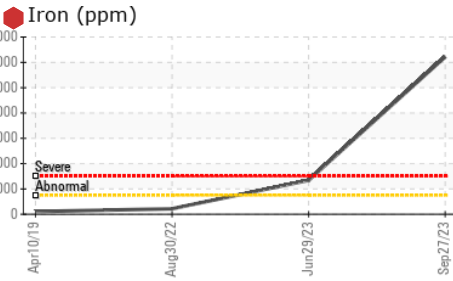
OIL ANALYSIS REPORT



FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		287	▲ 76.6	129

SAMPLE IMAGES		method	limit/base	current	history1	history2
Color					no image	no image
Bottom					no image	no image

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0183254 **Received** : 03 Oct 2023
Lab Number : 05968018 **Diagnosed** : 05 Oct 2023
Unique Number : 10674569 **Diagnostician** : Don Baldrige
Test Package : MOBCE (Additional Tests: PQ)

JRE - GARNER
 4161 AUBURN CHURCH RD
 GARNER, NC
 US 27529
 Contact: RALEIGH SHOP
 sean.betts@jamesriverequipment.com; catherine.anastasio@wearcheck.com
 T: (919)614-2260
 F: (919)779-5432

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)