



WEAR	SEVERE
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL



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

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. We advise that you check for the source of water entry. Oil and filter 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.

WEAR

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

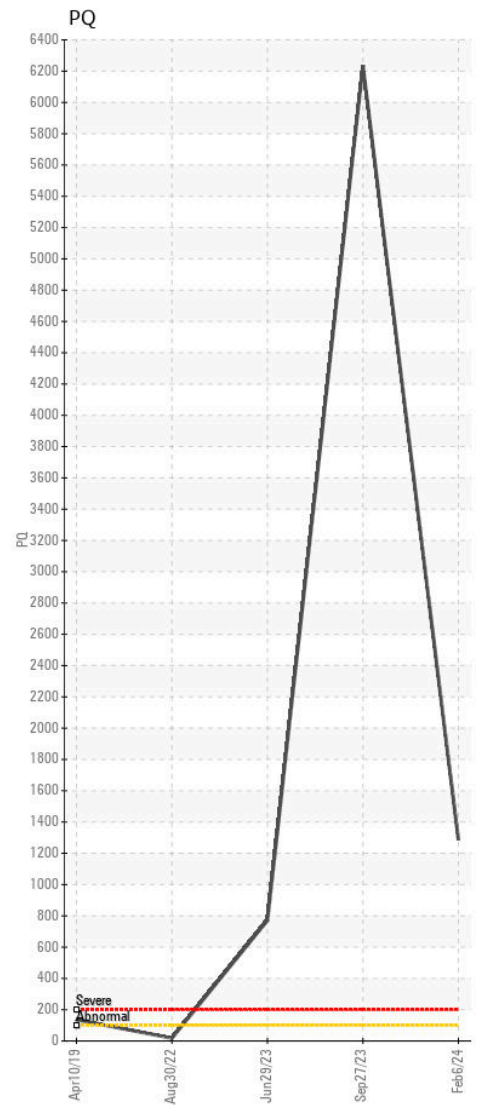
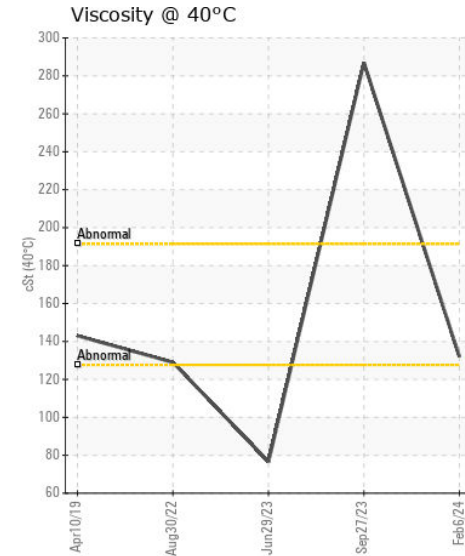
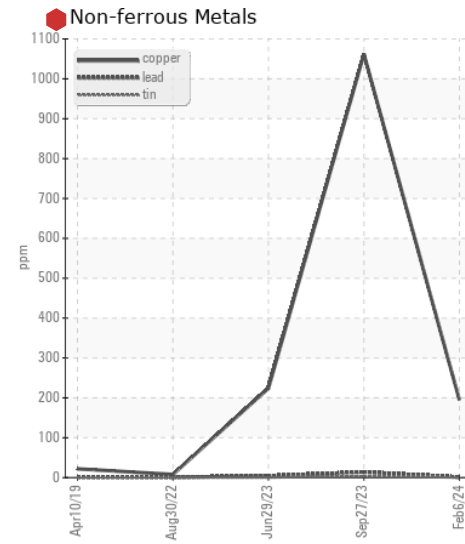
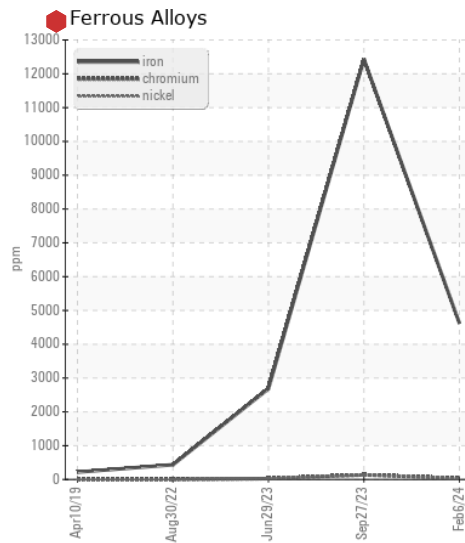
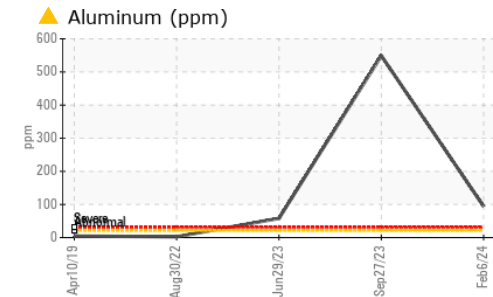
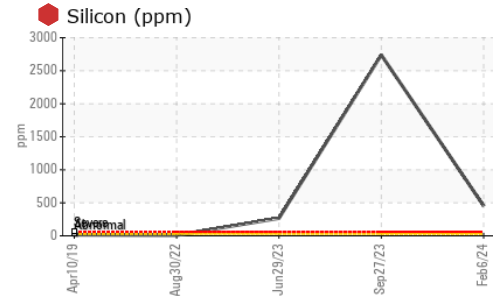
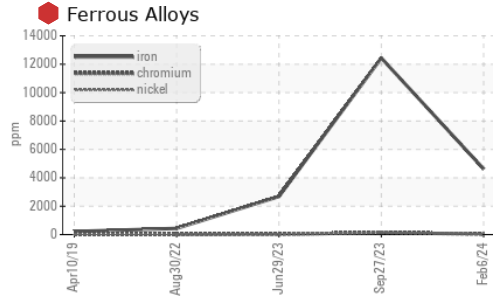
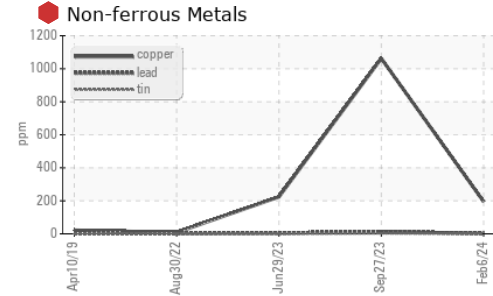
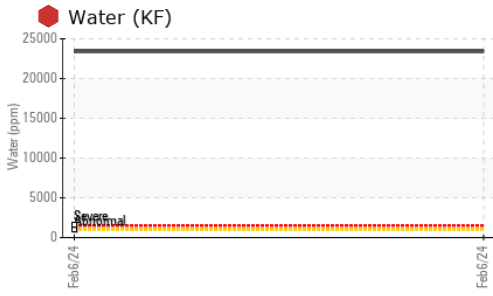
CONTAMINATION

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. There is a high concentration of water present in the oil.

FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0202870	JR0183254	JR0173592
Sample Date		Client Info		06 Feb 2024	27 Sep 2023	29 Jun 2023
Machine Age	hrs	Client Info		27335	26863	26393
Oil Age	hrs	Client Info		27335	26863	505
Filter Age	hrs	Client Info		0	0	505
Oil Changed		Client Info		Changed	Not Changd	Oil Added
Filter Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				SEVERE	SEVERE	SEVERE
PQ		ASTM D8184		1286	6235	771
Iron	ppm	ASTM D5185m	>1501	4623	12433	2684
Chromium	ppm	ASTM D5185m	>11	32	136	25
Nickel	ppm	ASTM D5185m	>10	28	133	30
Titanium	ppm	ASTM D5185m		2	12	2
Silver	ppm	ASTM D5185m		1	0	0
Aluminum	ppm	ASTM D5185m	>21	94	549	58
Lead	ppm	ASTM D5185m	>51	1	14	4
Copper	ppm	ASTM D5185m	>101	195	1062	224
Tin	ppm	ASTM D5185m	>10	0	3	0
Vanadium	ppm	ASTM D5185m		<1	2	0
White Metal	scalar	*Visual	NONE	NONE	LIGHT	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>31	454	2739	266
Potassium	ppm	ASTM D5185m	>20	25	179	15
Water	%	ASTM D6304	>0.1	2.34	---	---
ppm Water	ppm	ASTM D6304	>1000	23400	---	---
Silt	scalar	*Visual	NONE	NONE	NONE	MODER
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	0.2%	NEG	NEG
Sodium	ppm	ASTM D5185m	>51	42	236	19
Boron	ppm	ASTM D5185m		46	131	97
Barium	ppm	ASTM D5185m		2	2	3
Molybdenum	ppm	ASTM D5185m		6	13	3
Manganese	ppm	ASTM D5185m		37	120	22
Magnesium	ppm	ASTM D5185m		40	127	64
Calcium	ppm	ASTM D5185m		438	1337	2100
Phosphorus	ppm	ASTM D5185m		1776	812	938
Zinc	ppm	ASTM D5185m		270	430	670
Sulfur	ppm	ASTM D5185m		19330	13069	9123
Visc @ 40°C	cSt	ASTM D445		132	287	76.6



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : JR0202870

Lab Number : 06082777

Unique Number : 10870222

Test Package : CONST (Additional Tests: KF, PQ)

Received : 07 Feb 2024

Tested : 08 Feb 2024

Diagnosed : 09 Feb 2024 - Sean Felton

JRE - GARNER

4161 AUBURN CHURCH RD

GARNER, NC

US 27529

Contact: RALEIGH SHOP

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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)