



Machine Id
JOHN DEERE 244J LU244JX722841
Component
Rear Axle
Fluid
JOHN DEERE GL-5 80W90 (--- GAL)

RECOMMENDATION

We advise that you check for the source of possible coolant entry. 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.

WEAR

Bearing and/or gear wear is indicated.

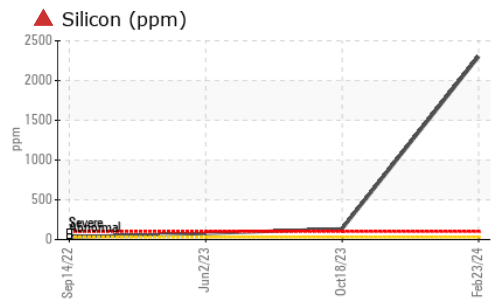
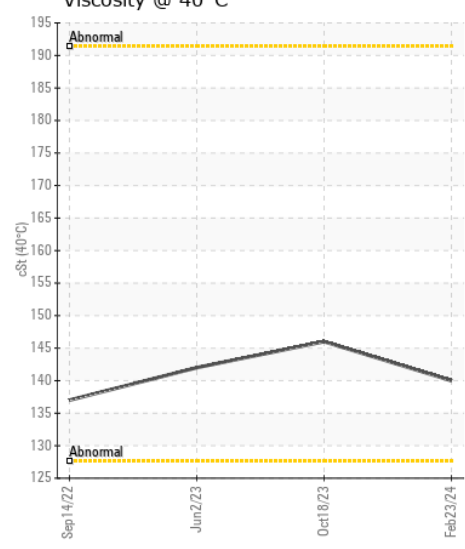
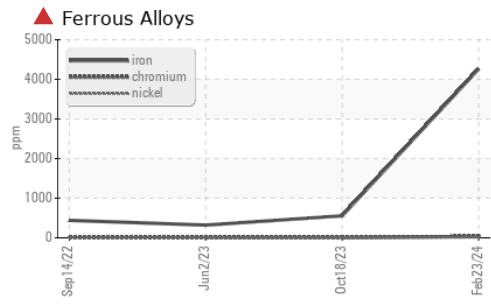
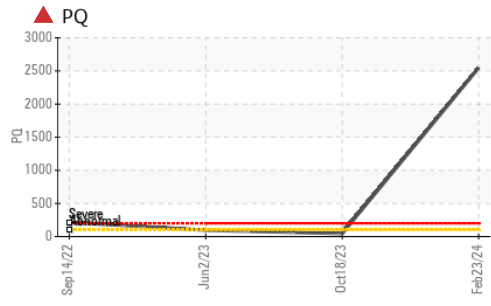
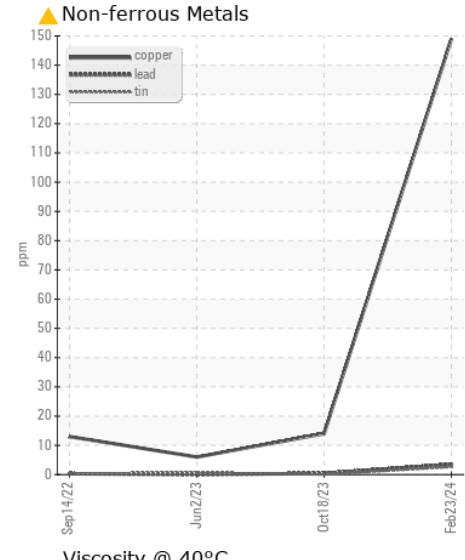
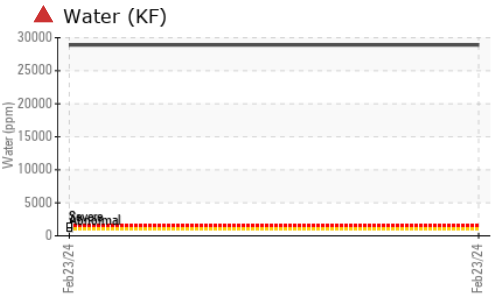
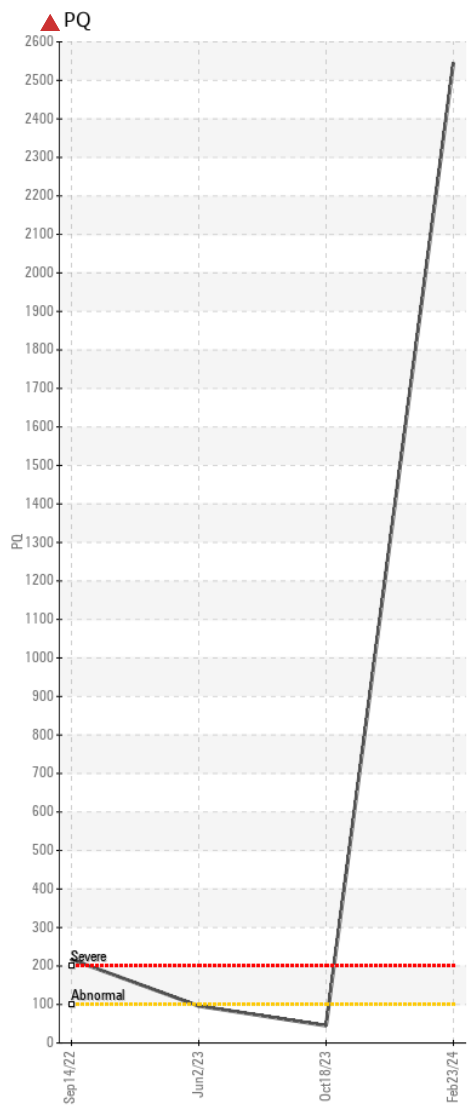
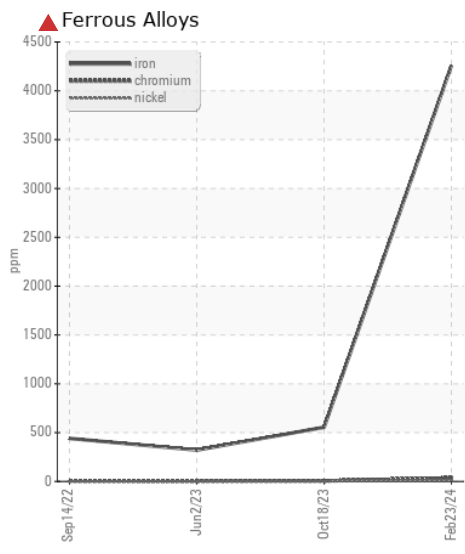
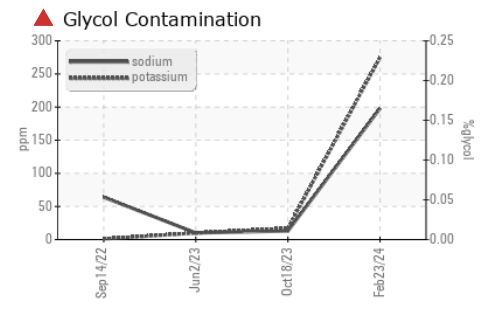
CONTAMINATION

Sodium and/or potassium levels are high. There is a high concentration of water present in the oil. 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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0202700	JR0181458	JR0175166
Sample Date		Client Info		23 Feb 2024	18 Oct 2023	02 Jun 2023
Machine Age	hrs	Client Info		13165	12906	12603
Oil Age	hrs	Client Info		259	12906	716
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	ABNORMAL	ABNORMAL
PQ		ASTM D8184		▲ 2545	45	96
Iron	ppm	ASTM D5185m	>750	▲ 4259	555	321
Chromium	ppm	ASTM D5185m	>11	▲ 36	5	3
Nickel	ppm	ASTM D5185m	>10	▲ 10	2	2
Titanium	ppm	ASTM D5185m		▲ 29	2	1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>21	● 665	● 42	● 30
Lead	ppm	ASTM D5185m	>49	4	<1	0
Copper	ppm	ASTM D5185m	>101	▲ 149	14	6
Tin	ppm	ASTM D5185m	>10	3	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	<1
White Metal	scalar	*Visual	NONE	NONE	MODER	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>31	▲ 2300	▲ 135	▲ 78
Potassium	ppm	ASTM D5185m	>20	▲ 275	17	10
Water	%	ASTM D6304	>0.1	▲ 2.89	---	---
ppm Water	ppm	ASTM D6304	>1000	▲ 28900	---	---
Silt	scalar	*Visual	NONE	NONE	NONE	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	▲ 0.2%	NEG	NEG
Sodium	ppm	ASTM D5185m	>51	▲ 198	13	10
Boron	ppm	ASTM D5185m		9	6	4
Barium	ppm	ASTM D5185m		9	0	0
Molybdenum	ppm	ASTM D5185m		4	<1	<1
Manganese	ppm	ASTM D5185m		32	5	3
Magnesium	ppm	ASTM D5185m		64	20	14
Calcium	ppm	ASTM D5185m		180	44	63
Phosphorus	ppm	ASTM D5185m		624	2501	2421
Zinc	ppm	ASTM D5185m		136	13	23
Sulfur	ppm	ASTM D5185m		19401	34767	34283
Visc @ 40°C	cSt	ASTM D445		140	146	142



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0202700 **Received** : 26 Feb 2024
Lab Number : 06100355 **Tested** : 27 Feb 2024
Unique Number : 10898585 **Diagnosed** : 29 Feb 2024 - Doug Bogart
Test Package : CONST (Additional Tests: KF, PQ)

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 T:
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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)