



WEAR	SEVERE
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL



Machine Id
JOHN DEERE 644K 1DW644KZLED664203

Component
Brake

Fluid
{not provided} (--- GAL)

RECOMMENDATION

We advise that you check for the source of water entry. We advise that you check all areas where dirt can enter the system. We recommend that you drain the fluid 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

The iron level is severe.

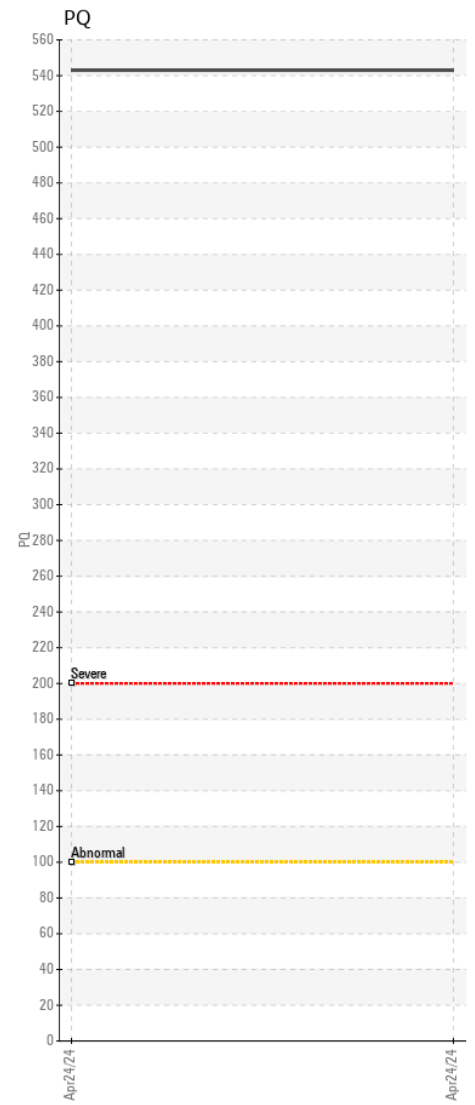
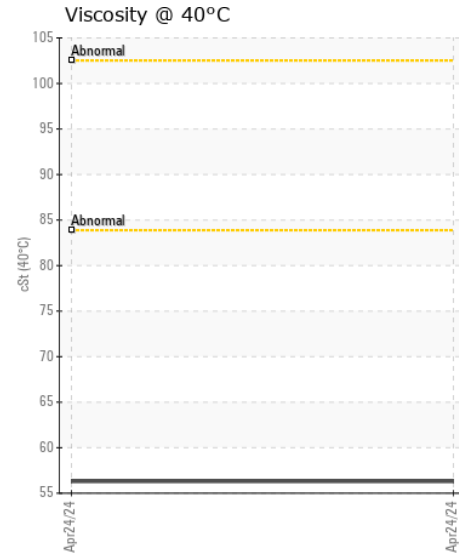
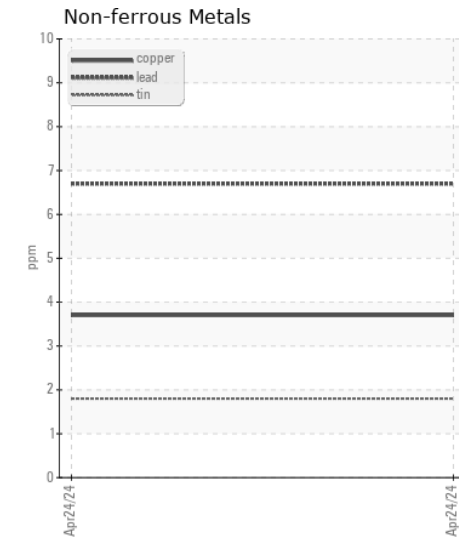
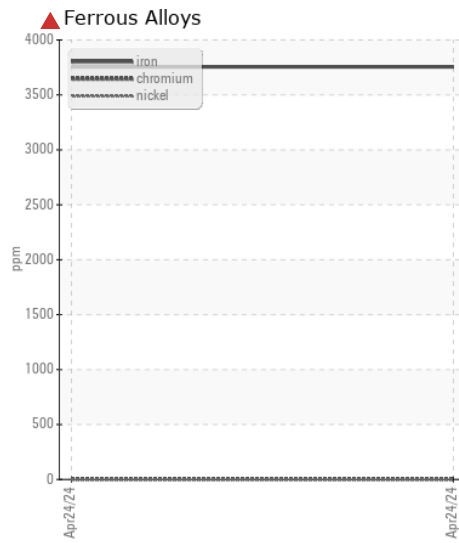
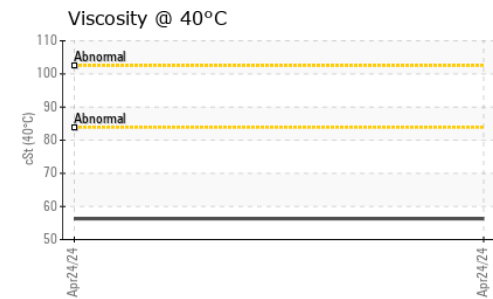
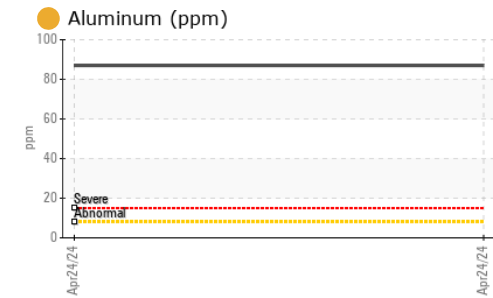
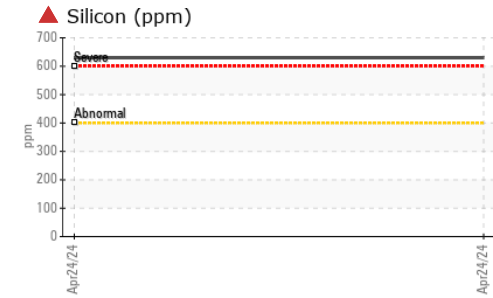
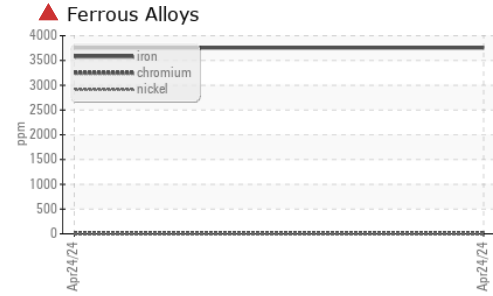
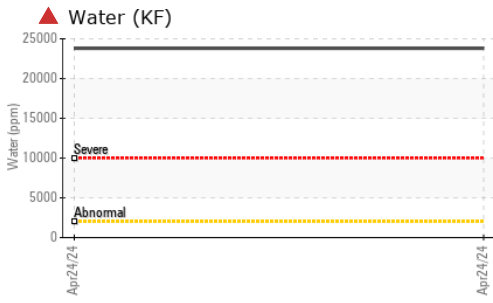
CONTAMINATION

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

FLUID CONDITION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0213567	---	---
Sample Date		Client Info		24 Apr 2024	---	---
Machine Age	hrs	Client Info		9482	---	---
Oil Age	hrs	Client Info		0	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		N/A	---	---
Filter Changed		Client Info		N/A	---	---
Sample Status				SEVERE	---	---
PQ		ASTM D8184		543	---	---
Iron	ppm	ASTM D5185m	>350	▲ 3755	---	---
Chromium	ppm	ASTM D5185m	>5	3	---	---
Nickel	ppm	ASTM D5185m	>5	1	---	---
Titanium	ppm	ASTM D5185m		2	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m	>8	● 87	---	---
Lead	ppm	ASTM D5185m	>10	7	---	---
Copper	ppm	ASTM D5185m	>150	4	---	---
Tin	ppm	ASTM D5185m	>5	2	---	---
Vanadium	ppm	ASTM D5185m		<1	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Silicon	ppm	ASTM D5185m	>400	▲ 630	---	---
Potassium	ppm	ASTM D5185m	>20	22	---	---
Water	%	ASTM D6304	>0.2	▲ 2.38	---	---
ppm Water	ppm	ASTM D6304	>2000	▲ 23800	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	● HAZY	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.2	▲ 0.2%	---	---
Sodium	ppm	ASTM D5185m		196	---	---
Boron	ppm	ASTM D5185m		6	---	---
Barium	ppm	ASTM D5185m		2	---	---
Molybdenum	ppm	ASTM D5185m		31	---	---
Manganese	ppm	ASTM D5185m		33	---	---
Magnesium	ppm	ASTM D5185m		90	---	---
Calcium	ppm	ASTM D5185m		1848	---	---
Phosphorus	ppm	ASTM D5185m		1007	---	---
Zinc	ppm	ASTM D5185m		918	---	---
Sulfur	ppm	ASTM D5185m		3698	---	---
Visc @ 40°C	cSt	ASTM D445		56.3	---	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0213567
Lab Number : 06160634
Unique Number : 10996057
Test Package : CONST (Additional Tests: KF, PQ)

Received : 25 Apr 2024
Tested : 26 Apr 2024
Diagnosed : 27 Apr 2024 - Don Baldrige

JRE - GREENSBORO
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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)