



WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 1023E 1LV1023ETLM139961

Component
Hydraulic System

Fluid
{not provided} (--- QTS)

RECOMMENDATION

We advise that you check for the source of water entry. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0200849	---	---
Sample Date		Client Info		02 Apr 2024	---	---
Machine Age	hrs	Client Info		149	---	---
Oil Age	hrs	Client Info		149	---	---
Filter Age	hrs	Client Info		149	---	---
Oil Changed		Client Info		Not Changd	---	---
Filter Changed		Client Info		Not Changd	---	---
Sample Status				ABNORMAL	---	---

WEAR

The iron level is abnormal. The copper level is abnormal.

PQ		ASTM D8184		22	---	---
Iron	ppm	ASTM D5185m	>20	▲ 26	---	---
Chromium	ppm	ASTM D5185m	>10	0	---	---
Nickel	ppm	ASTM D5185m	>10	0	---	---
Titanium	ppm	ASTM D5185m		0	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m	>10	2	---	---
Lead	ppm	ASTM D5185m	>10	1	---	---
Copper	ppm	ASTM D5185m	>75	▲ 87	---	---
Tin	ppm	ASTM D5185m	>10	<1	---	---
Vanadium	ppm	ASTM D5185m		0	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

CONTAMINATION

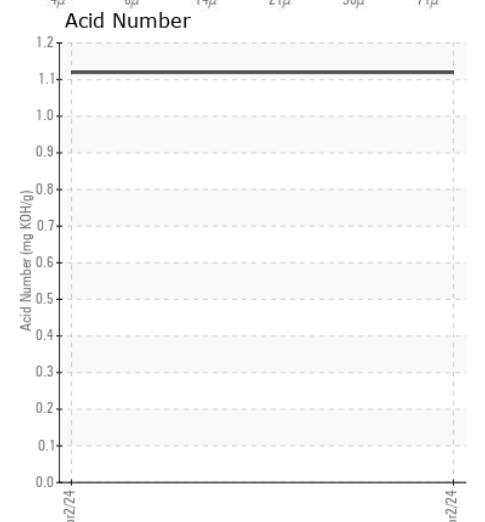
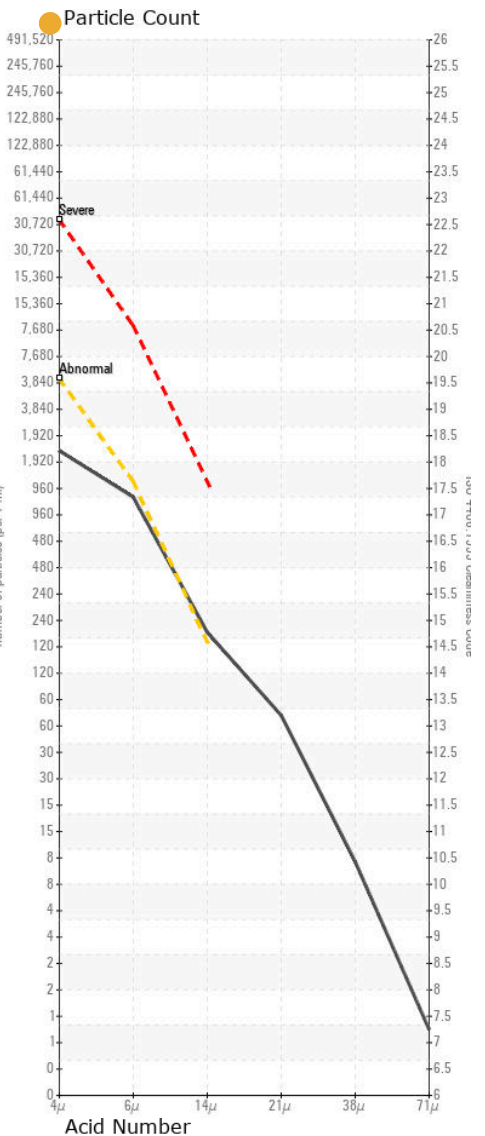
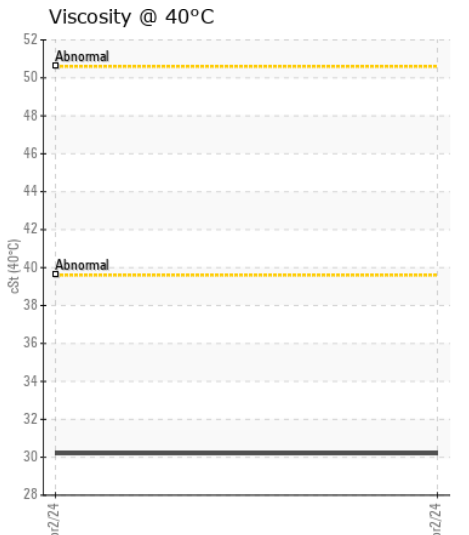
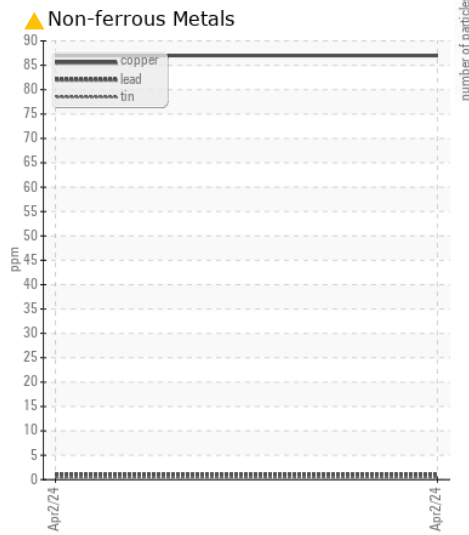
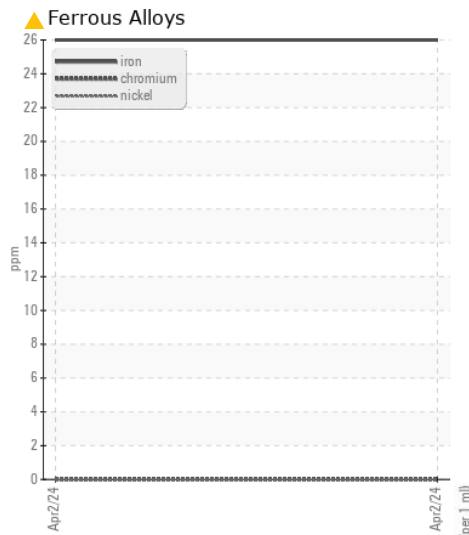
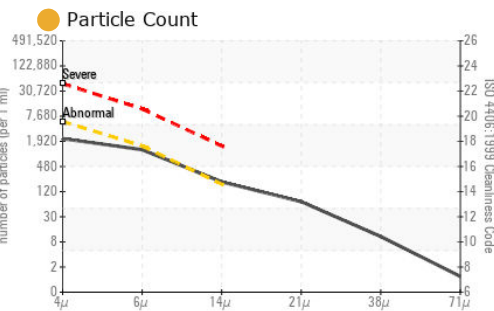
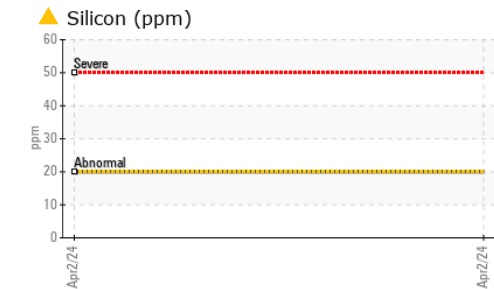
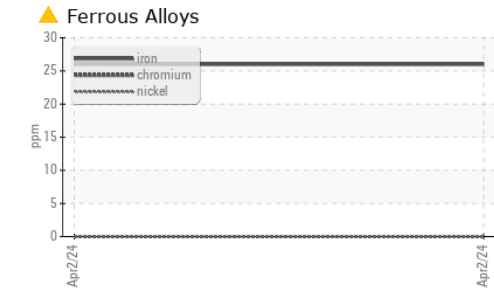
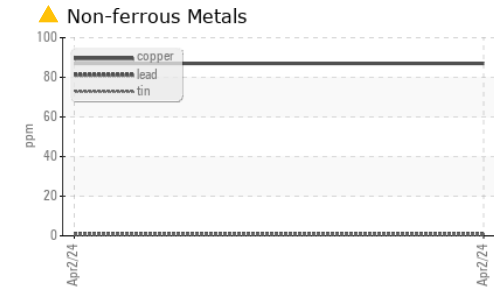
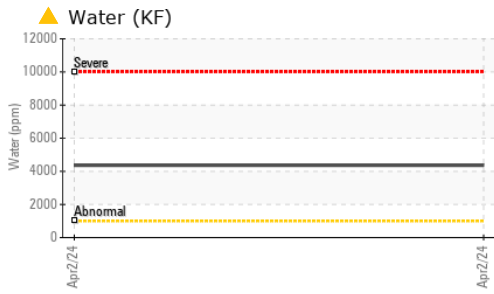
There is a moderate amount of particulates present in the oil. There is a moderate concentration of water present in the oil.

Silicon	ppm	ASTM D5185m	>20	▲ 20	---	---
Potassium	ppm	ASTM D5185m	>20	<1	---	---
Water	%	ASTM D6304	>0.1	▲ 0.436	---	---
ppm Water	ppm	ASTM D6304	>1000	▲ 4360	---	---
Particles >4µm		ASTM D7647	>5000	1949	---	---
Particles >6µm		ASTM D7647	>1300	1062	---	---
Particles >14µm		ASTM D7647	>160	● 181	---	---
Particles >21µm		ASTM D7647	>40	● 61	---	---
Particles >38µm		ASTM D7647	>10	9	---	---
Particles >71µm		ASTM D7647	>3	1	---	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	● 18/17/15	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.1	0.2%	---	---

FLUID CONDITION

The AN level is acceptable for this fluid.

Sodium	ppm	ASTM D5185m		3	---	---
Boron	ppm	ASTM D5185m		4	---	---
Barium	ppm	ASTM D5185m		3	---	---
Molybdenum	ppm	ASTM D5185m		0	---	---
Manganese	ppm	ASTM D5185m		1	---	---
Magnesium	ppm	ASTM D5185m		100	---	---
Calcium	ppm	ASTM D5185m		3589	---	---
Phosphorus	ppm	ASTM D5185m		1057	---	---
Zinc	ppm	ASTM D5185m		1218	---	---
Sulfur	ppm	ASTM D5185m		3777	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045		1.12	---	---
Visc @ 40°C	cSt	ASTM D445		30.2	---	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0200849 **Received** : 15 Apr 2024
Lab Number : 06148563 **Tested** : 19 Apr 2024
Unique Number : 10978641 **Diagnosed** : 19 Apr 2024 - Jonathan Hester
Test Package : MOBCE (Additional Tests: KF, PQ)

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)

JRE - SHELBY
 703 N POST RD
 SHELBY, NC
 US 28150

Contact: LEVI BOWMAN
 levi.bowman@jamesriverequipment.com

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 F: