



WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 4044M 1LV4044MAKK108582

Component
Hydraulic System

Fluid
JOHN DEERE HY-GARD HYD/TRANS LOW VIS (--- GAL)

RECOMMENDATION

We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0137476	---	---
Sample Date		Client Info		23 Feb 2024	---	---
Machine Age	hrs	Client Info		1396	---	---
Oil Age	hrs	Client Info		1396	---	---
Filter Age	hrs	Client Info		1396	---	---
Oil Changed		Client Info		Not Changd	---	---
Filter Changed		Client Info		Not Changd	---	---
Sample Status				ABNORMAL	---	---

WEAR

The iron level is abnormal. All other component wear rates are normal.

PQ		ASTM D8184		22	---	---
Iron	ppm	ASTM D5185m	>20	▲ 42	---	---
Chromium	ppm	ASTM D5185m	>10	<1	---	---
Nickel	ppm	ASTM D5185m	>10	0	---	---
Titanium	ppm	ASTM D5185m		0	---	---
Silver	ppm	ASTM D5185m		<1	---	---
Aluminum	ppm	ASTM D5185m	>10	2	---	---
Lead	ppm	ASTM D5185m	>10	6	---	---
Copper	ppm	ASTM D5185m	>75	49	---	---
Tin	ppm	ASTM D5185m	>10	2	---	---
Vanadium	ppm	ASTM D5185m		0	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

CONTAMINATION

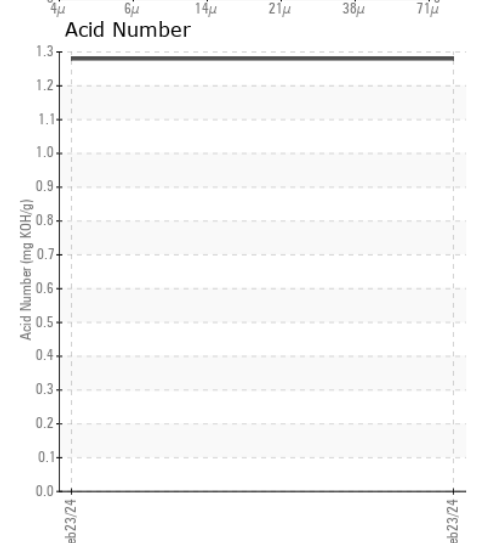
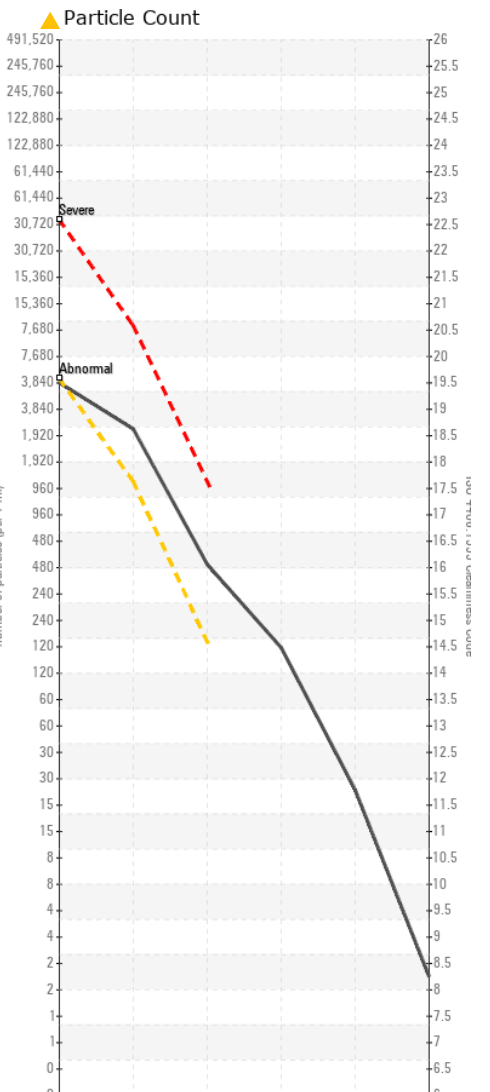
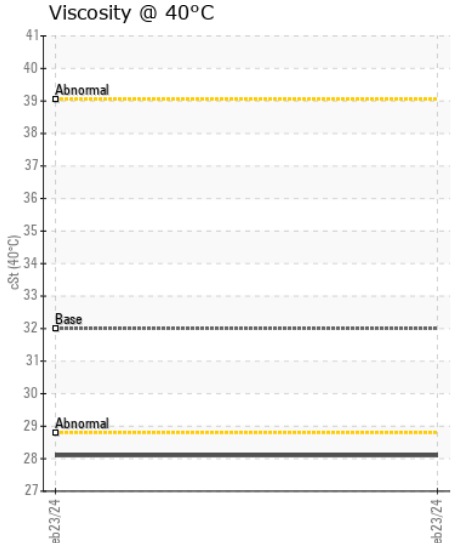
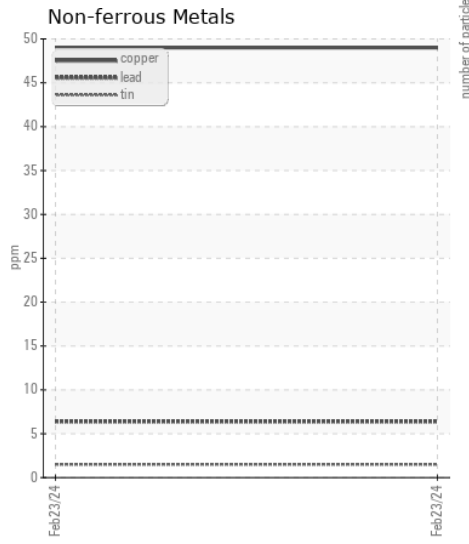
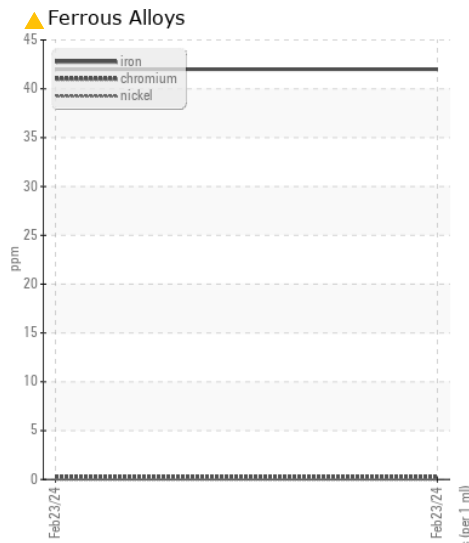
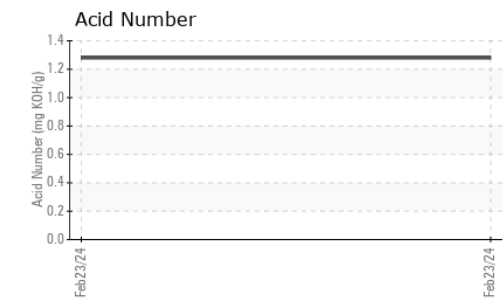
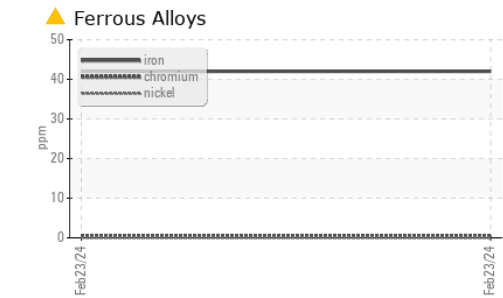
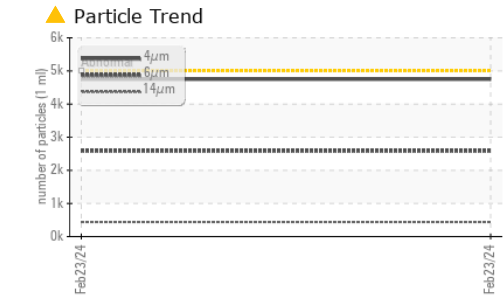
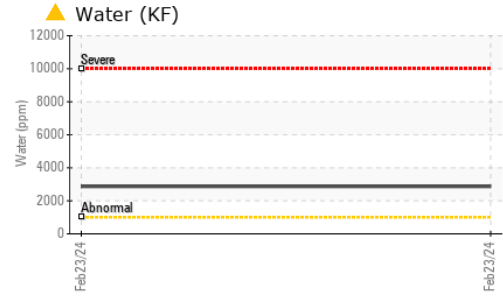
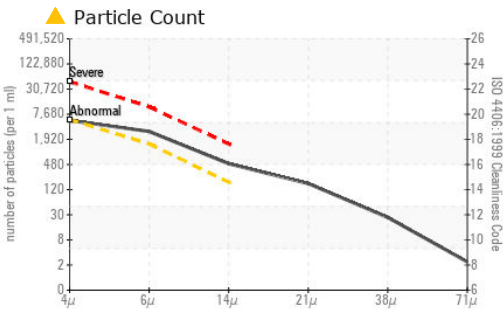
There is a high amount of particulates present in the oil. There is a light concentration of water present in the oil.

Silicon	ppm	ASTM D5185m	>20	5	---	---
Potassium	ppm	ASTM D5185m	>20	0	---	---
Water	%	ASTM D6304	>0.1	▲ 0.287	---	---
ppm Water	ppm	ASTM D6304	>1000	▲ 2870	---	---
Particles >4µm		ASTM D7647	>5000	▲ 4750	---	---
Particles >6µm		ASTM D7647	>1300	▲ 2588	---	---
Particles >14µm		ASTM D7647	>160	▲ 440	---	---
Particles >21µm		ASTM D7647	>40	▲ 148	---	---
Particles >38µm		ASTM D7647	>10	▲ 23	---	---
Particles >71µm		ASTM D7647	>3	▲ 2	---	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 19/19/16	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	LIGHT	---	---
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. The condition of the oils additive package is suitable for further service.

Sodium	ppm	ASTM D5185m		0	---	---
Boron	ppm	ASTM D5185m		0	---	---
Barium	ppm	ASTM D5185m		2	---	---
Molybdenum	ppm	ASTM D5185m		<1	---	---
Manganese	ppm	ASTM D5185m		3	---	---
Magnesium	ppm	ASTM D5185m		98	---	---
Calcium	ppm	ASTM D5185m		3263	---	---
Phosphorus	ppm	ASTM D5185m		900	---	---
Zinc	ppm	ASTM D5185m		1185	---	---
Sulfur	ppm	ASTM D5185m		3214	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045		1.28	---	---
Visc @ 40°C	cSt	ASTM D445	32	28.1	---	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0137476 **Received** : 27 Feb 2024
Lab Number : 06101511 **Tested** : 04 Mar 2024
Unique Number : 10899741 **Diagnosed** : 04 Mar 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 - WILKESBORO
 288 WESTGATE DRIVE
 WILKESBORO, NC
 US 28697

Contact: BUTCH JANES
 bjanes@jamesriverequipment.com

T: (336)973-8201
 F: (336)973-8496