



WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 4052M 1LV4052MKPN110616

Component
Hydraulic System

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

RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0184783	---	---
Sample Date		Client Info		10 Jan 2024	---	---
Machine Age	hrs	Client Info		93	---	---
Oil Age	hrs	Client Info		93	---	---
Filter Age	hrs	Client Info		93	---	---
Oil Changed		Client Info		Not Changd	---	---
Filter Changed		Client Info		Not Changd	---	---
Sample Status				ABNORMAL	---	---

WEAR

All component wear rates are normal.

PQ		ASTM D8184		15	---	---
Iron	ppm	ASTM D5185m	>20	16	---	---
Chromium	ppm	ASTM D5185m	>10	<1	---	---
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	8	---	---
Tin	ppm	ASTM D5185m	>10	0	---	---
Vanadium	ppm	ASTM D5185m		0	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

CONTAMINATION

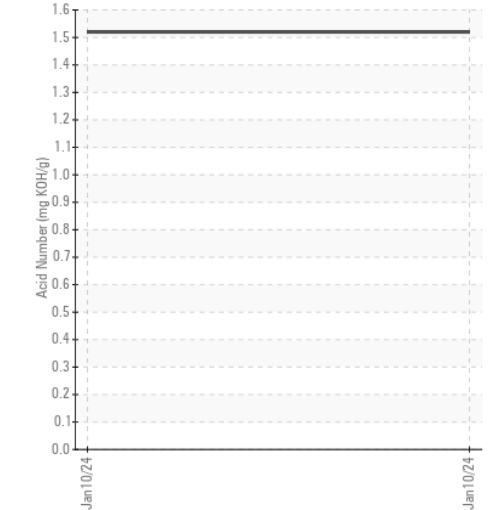
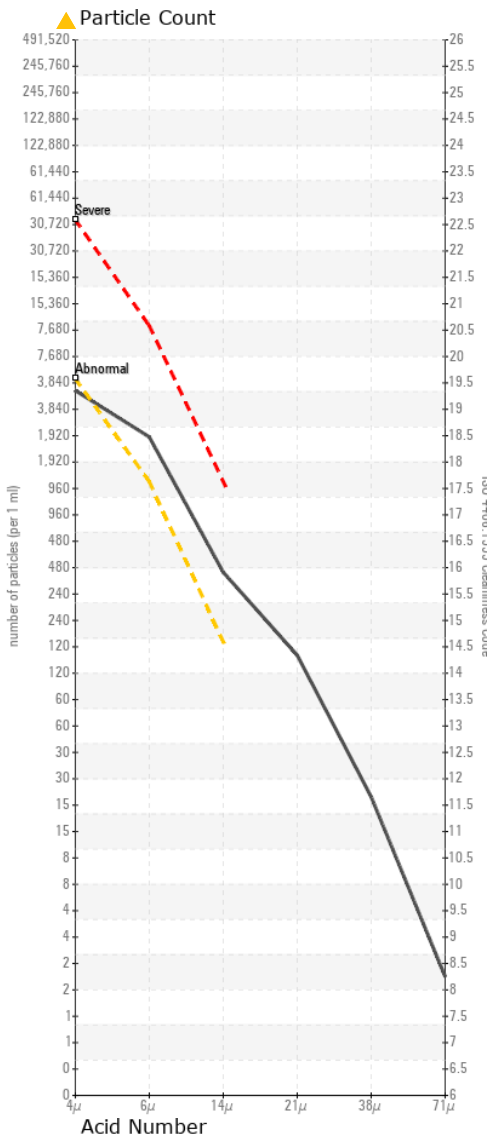
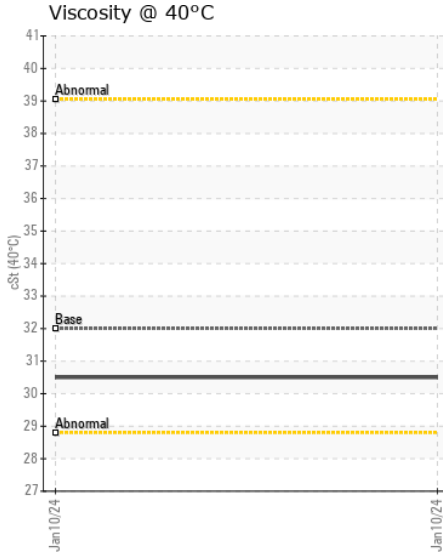
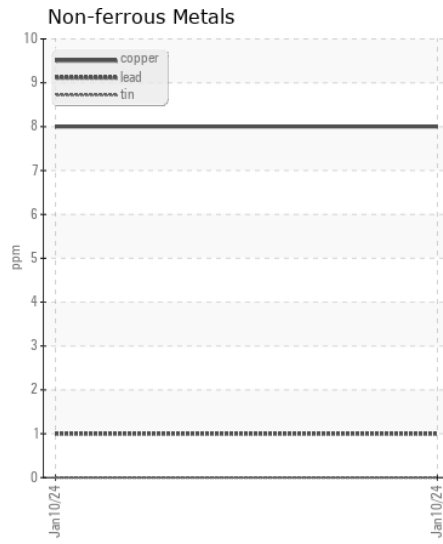
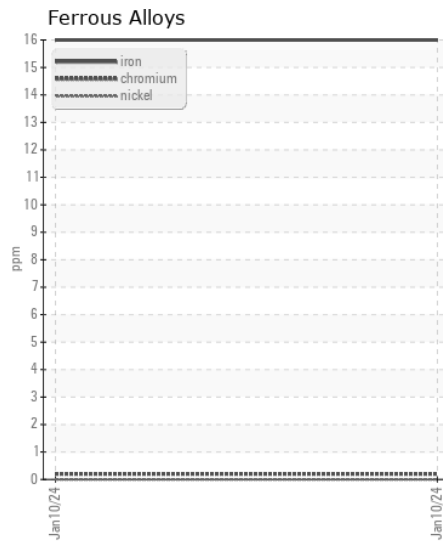
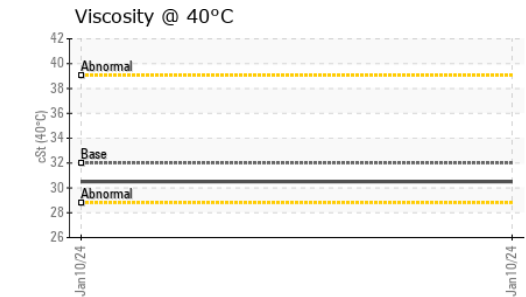
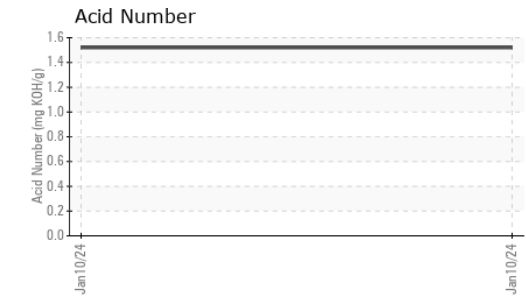
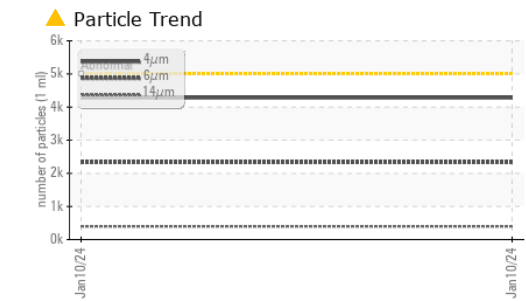
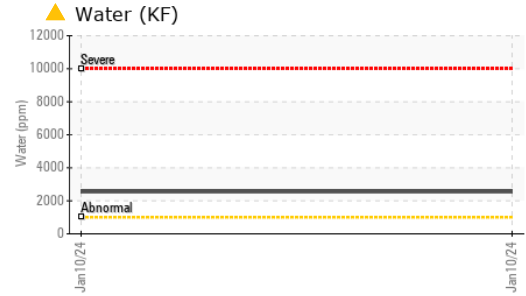
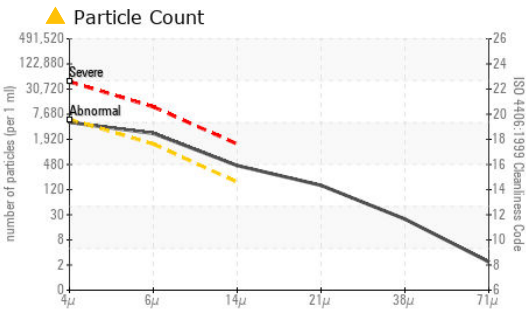
There is a high amount of particulates present in the oil. There is a light concentration of water present in the oil.

Silicon	ppm	ASTM D5185m	>20	8	---	---
Potassium	ppm	ASTM D5185m	>20	3	---	---
Water	%	ASTM D6304	>0.1	▲ 0.255	---	---
ppm Water	ppm	ASTM D6304	>1000	▲ 2550	---	---
Particles >4µm		ASTM D7647	>5000	▲ 4280	---	---
Particles >6µm		ASTM D7647	>1300	▲ 2332	---	---
Particles >14µm		ASTM D7647	>160	▲ 397	---	---
Particles >21µm		ASTM D7647	>40	▲ 134	---	---
Particles >38µm		ASTM D7647	>10	▲ 21	---	---
Particles >71µm		ASTM D7647	>3	▲ 2	---	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 19/18/16	---	---
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. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		0	---	---
Boron	ppm	ASTM D5185m		4	---	---
Barium	ppm	ASTM D5185m		0	---	---
Molybdenum	ppm	ASTM D5185m		<1	---	---
Manganese	ppm	ASTM D5185m		2	---	---
Magnesium	ppm	ASTM D5185m		103	---	---
Calcium	ppm	ASTM D5185m		3716	---	---
Phosphorus	ppm	ASTM D5185m		1098	---	---
Zinc	ppm	ASTM D5185m		1295	---	---
Sulfur	ppm	ASTM D5185m		4180	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045		1.52	---	---
Visc @ 40°C	cSt	ASTM D445	32	30.5	---	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0184783 **Received** : 12 Jan 2024
Lab Number : 06060130 **Diagnosed** : 18 Jan 2024
Unique Number : 10831512 **Diagnostician** : Jonathan Hester
Test Package : CONST (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 - EDINBURG
 601 NORTH MAIN ST
 WOODSTOCK, VA
 US 22664

Contact: GARRETT JAVERSAK
 garrett.javersak@jamesriverequipment.com

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 F: