



OIL ANALYSIS REPORT

WEAR	SEVERE
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
Store 4 - Fairmont
Machine Id
JOHN DEERE 700K 1T0700KXHCE231102
Component
Hydraulic System
Fluid
JOHN DEERE HYDRAU (14 GAL)

RECOMMENDATION

We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0047835	LEC0026816	---
Sample Date		Client Info		23 Feb 2024	17 Jan 2022	---
Machine Age	hrs	Client Info		2245	1925	---
Oil Age	hrs	Client Info		2245	1925	---
Filter Age	hrs	Client Info		320	1925	---
Oil Changed		Client Info		Not Chngd	Not Chngd	---
Filter Changed		Client Info		Not Chngd	Changed	---
Sample Status				SEVERE	SEVERE	---

WEAR

The copper level is severe.

PQ		ASTM D8184	>50	13	17	---
Iron	ppm	ASTM D5185m	>23	3	2	---
Chromium	ppm	ASTM D5185m	>9	0	<1	---
Nickel	ppm	ASTM D5185m	>5	0	0	---
Titanium	ppm	ASTM D5185m		0	<1	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>9	<1	1	---
Lead	ppm	ASTM D5185m	>28	15	8	---
Copper	ppm	ASTM D5185m	>51	▲ 600	▲ 510	---
Tin	ppm	ASTM D5185m	>5	<1	<1	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

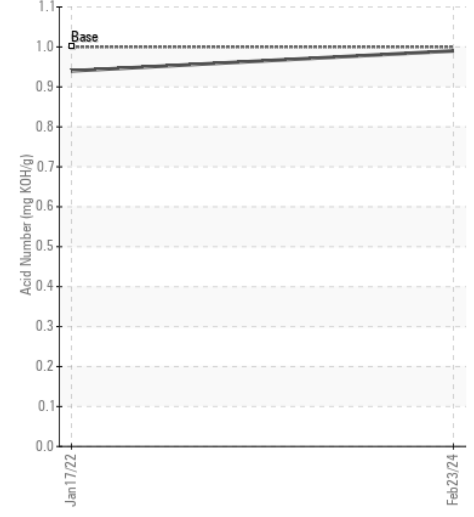
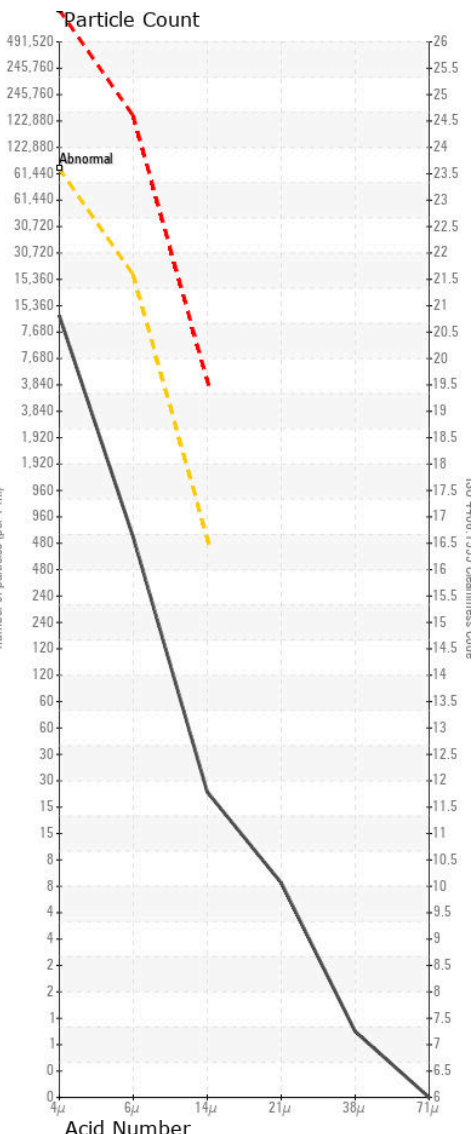
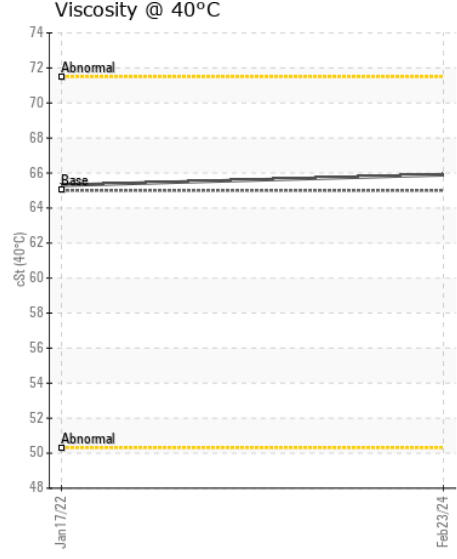
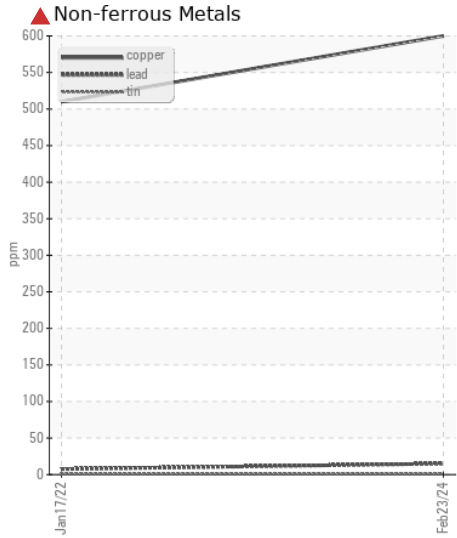
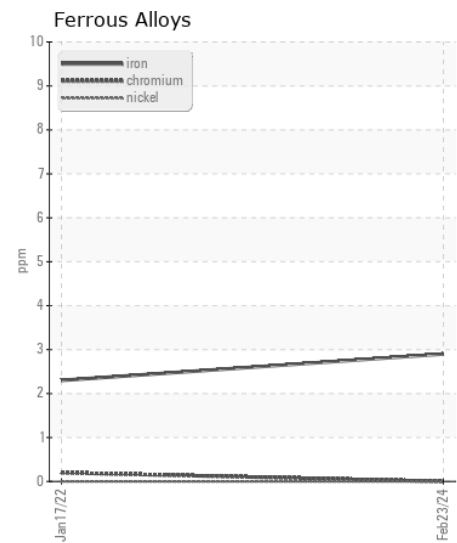
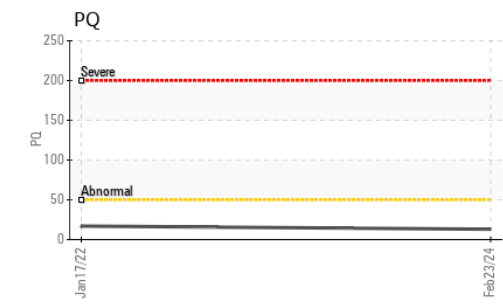
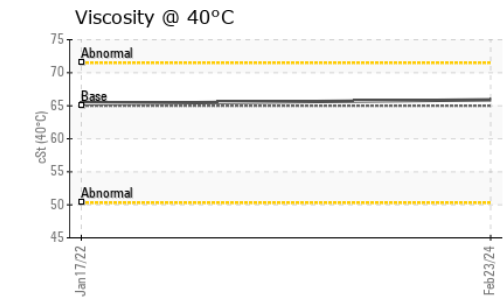
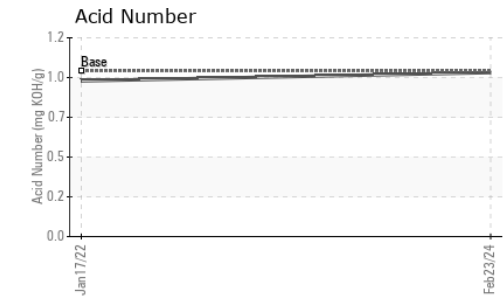
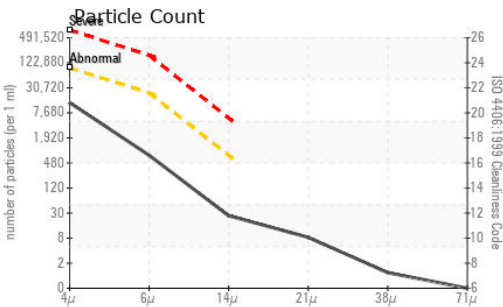
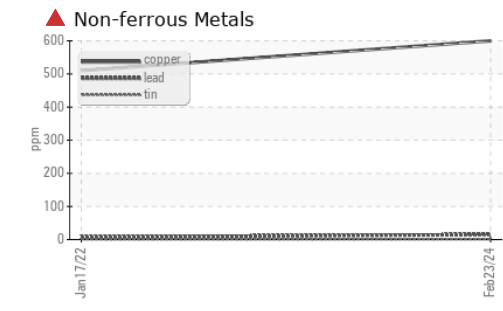
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>31	3	3	---
Potassium	ppm	ASTM D5185m	>20	<1	0	---
Water		WC Method	>0.075	NEG	NEG	---
Particles >4µm		ASTM D7647	>80000	11735	7588	---
Particles >6µm		ASTM D7647	>20000	644	892	---
Particles >14µm		ASTM D7647	>640	23	43	---
Particles >21µm		ASTM D7647	>160	7	11	---
Particles >38µm		ASTM D7647	>40	1	0	---
Particles >71µm		ASTM D7647	>10	0	0	---
Oil Cleanliness		ISO 4406 (c)	>23/21/16	21/17/12	20/17/13	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.075	NEG	NEG	---

FLUID CONDITION

The AN level is acceptable for this fluid.

Sodium	ppm	ASTM D5185m	>21	3	2	---
Boron	ppm	ASTM D5185m		15	6	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		10	1	---
Manganese	ppm	ASTM D5185m		0	<1	---
Magnesium	ppm	ASTM D5185m		92	69	---
Calcium	ppm	ASTM D5185m	87	2201	2113	---
Phosphorus	ppm	ASTM D5185m	727	987	908	---
Zinc	ppm	ASTM D5185m	900	1100	1078	---
Sulfur	ppm	ASTM D5185m	1500	3571	3406	---
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.99	0.94	---
Visc @ 40°C	cSt	ASTM D445	65	65.9	65.3	---



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0047835 **Received** : 27 Feb 2024
Lab Number : 06102407 **Tested** : 28 Feb 2024
Unique Number : 10900637 **Diagnosed** : 29 Feb 2024 - Don Baldrige
Test Package : CONST (Additional Tests: PQ)

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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)