



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		LEC0026816	---	---
Sample Date		Client Info		17 Jan 2022	---	---
Machine Age	hrs	Client Info		1925	---	---
Oil Age	hrs	Client Info		1925	---	---
Filter Age	hrs	Client Info		1925	---	---
Oil Changed		Client Info		Not Chngd	---	---
Filter Changed		Client Info		Changed	---	---
Sample Status				SEVERE	---	---

WEAR

The copper level is severe.

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

CONTAMINATION

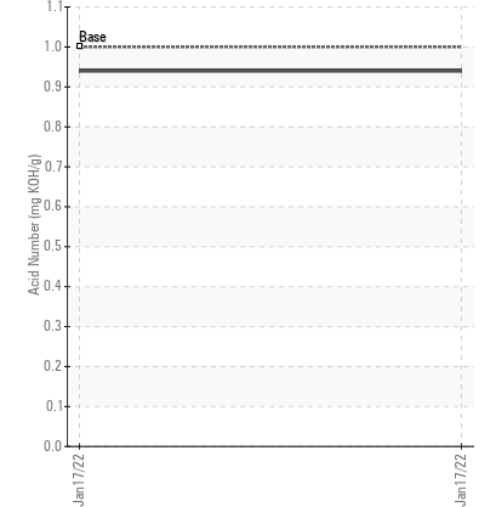
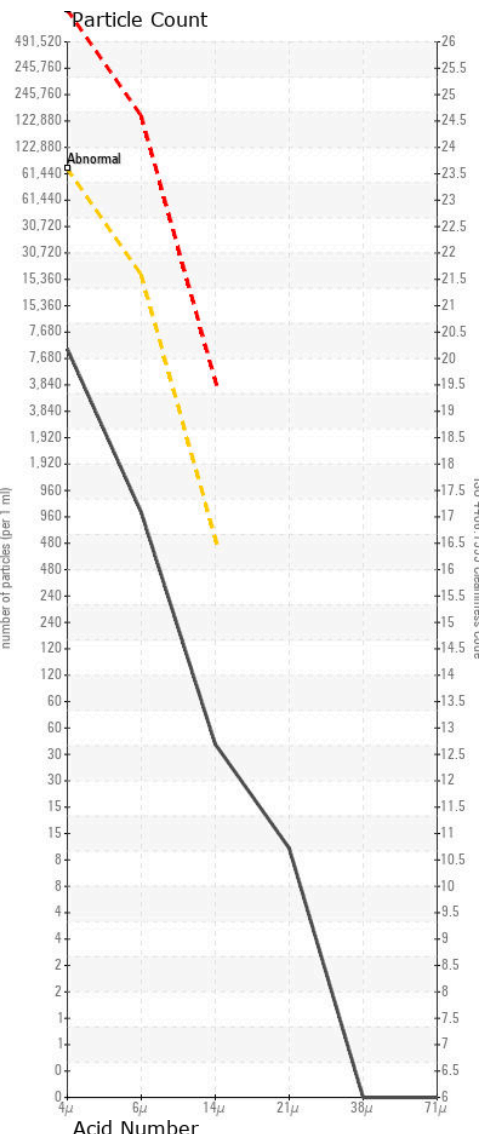
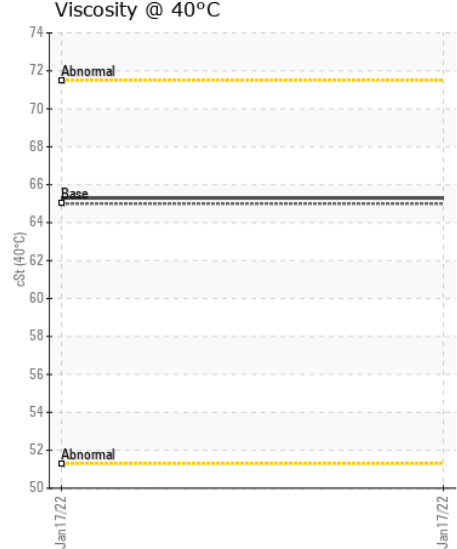
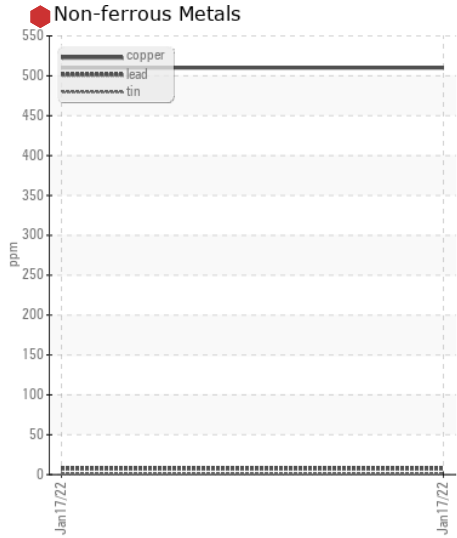
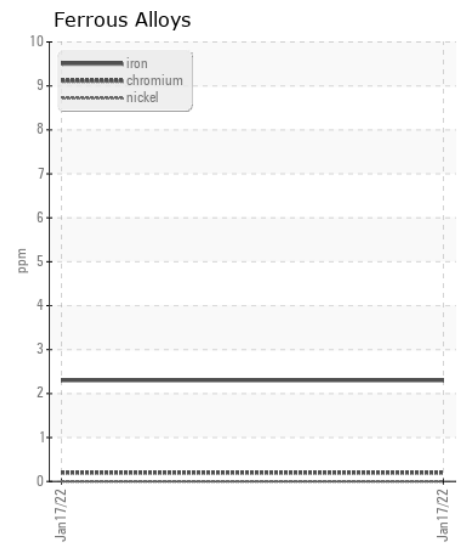
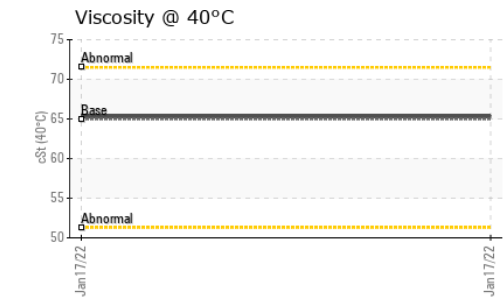
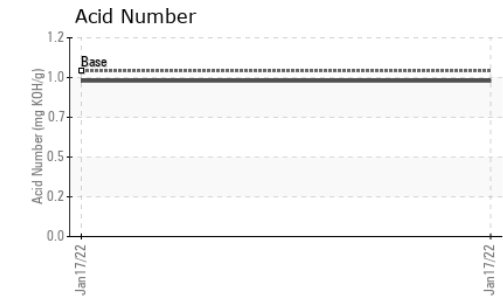
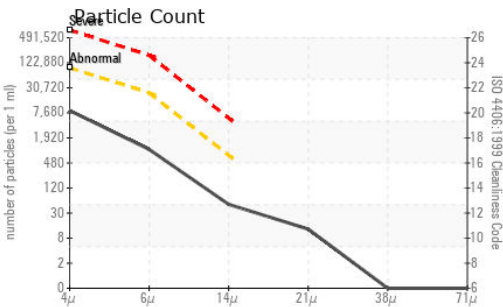
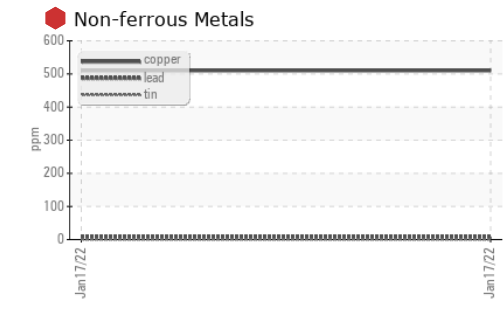
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>31	3	---	---
Potassium	ppm	ASTM D5185m	>20	0	---	---
Water		WC Method	>0.075	NEG	---	---
Particles >4µm		ASTM D7647	>80000	7588	---	---
Particles >6µm		ASTM D7647	>20000	892	---	---
Particles >14µm		ASTM D7647	>640	43	---	---
Particles >21µm		ASTM D7647	>160	11	---	---
Particles >38µm		ASTM D7647	>40	0	---	---
Particles >71µm		ASTM D7647	>10	0	---	---
Oil Cleanliness		ISO 4406 (c)	>23/21/16	20/17/13	---	---
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	>0.075	NEG	---	---

FLUID CONDITION

The AN level is acceptable for this fluid.

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



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0026816 **Received** : 24 Jan 2022
Lab Number : 05449945 **Tested** : 25 Jan 2022
Unique Number : 9824140 **Diagnosed** : 25 Jan 2022 - Jonathan Hester
Test Package : MOBCE (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)