



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
Store 4 - Fairmont [RO# 152167]
Machine Id
JOHN DEERE 700K 1T0700KXPDE289692
Component
Hydraulic System
Fluid
JOHN DEERE HYDRAU (14 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0050953	LEC0036245	---
Sample Date		Client Info		17 Jun 2024	20 Oct 2022	---
Machine Age	hrs	Client Info		16126	15773	---
Oil Age	hrs	Client Info		353	1000	---
Filter Age	hrs	Client Info		353	1000	---
Oil Changed		Client Info		Not Chngd	Changed	---
Filter Changed		Client Info		Not Chngd	Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

PQ		ASTM D8184	>50	21	8	---
Iron	ppm	ASTM D5185m	>23	6	9	---
Chromium	ppm	ASTM D5185m	>9	<1	<1	---
Nickel	ppm	ASTM D5185m	>5	0	0	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>9	6	5	---
Lead	ppm	ASTM D5185m	>28	0	<1	---
Copper	ppm	ASTM D5185m	>51	2	2	---
Tin	ppm	ASTM D5185m	>5	<1	0	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

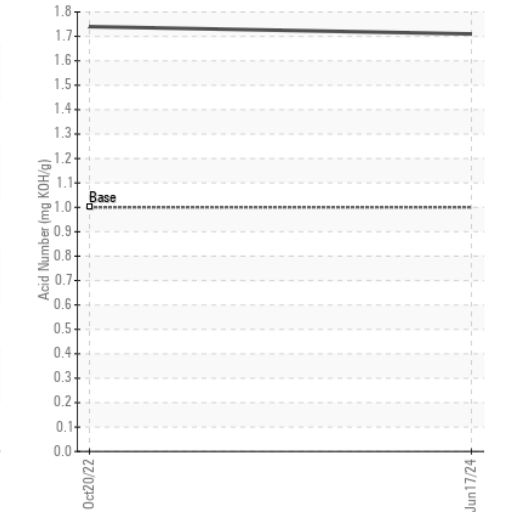
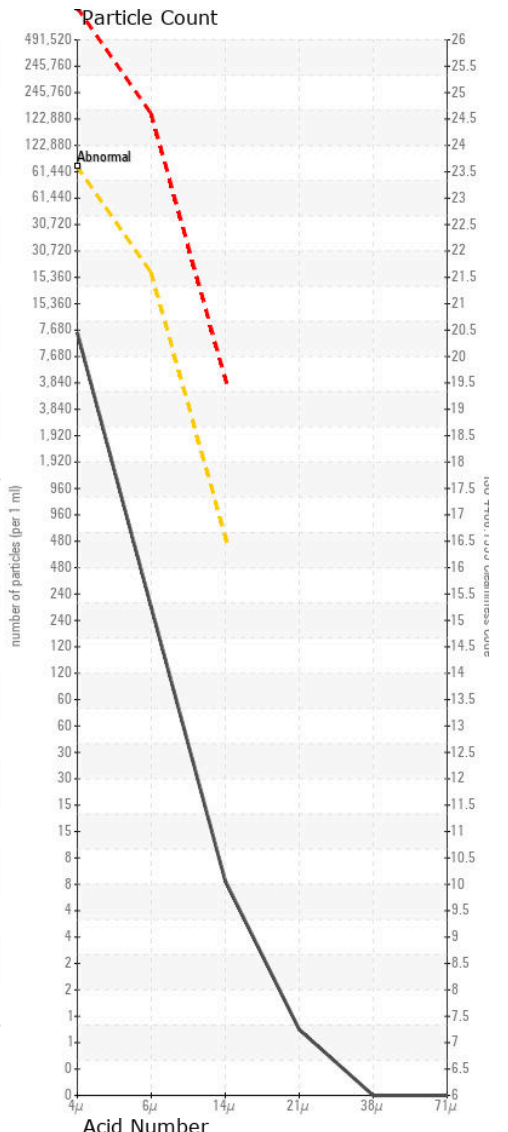
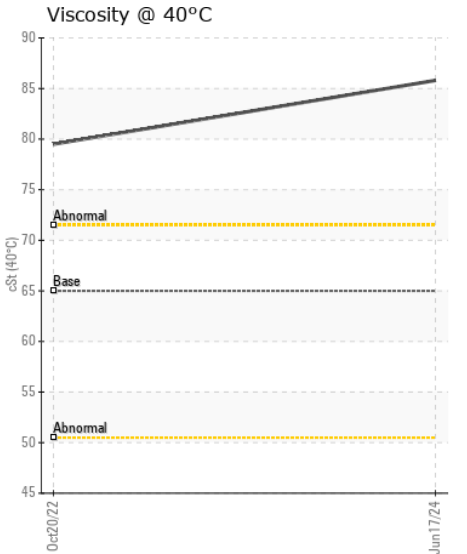
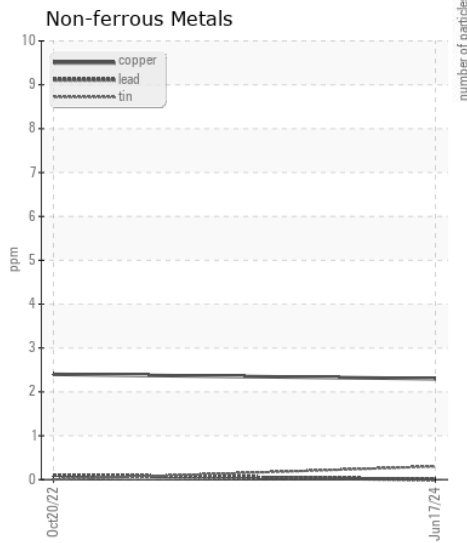
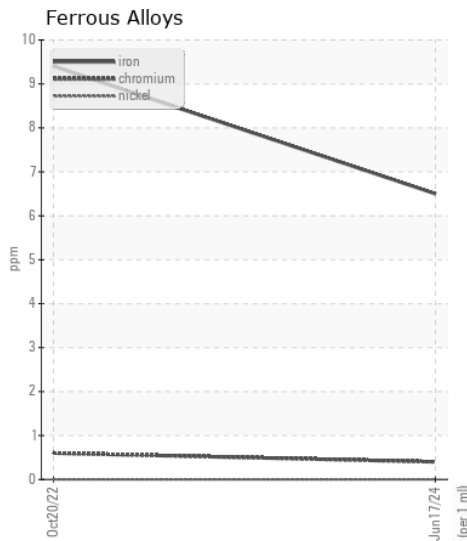
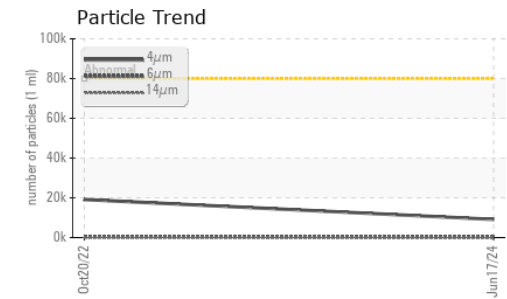
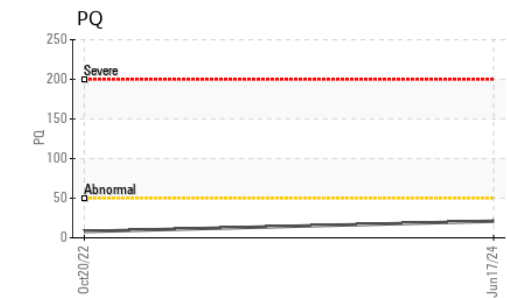
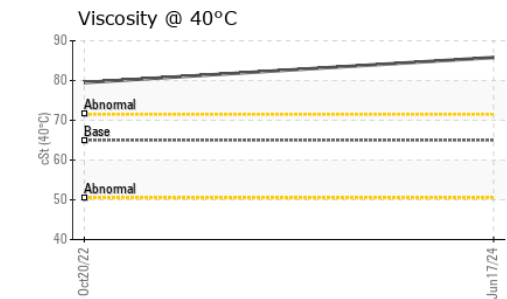
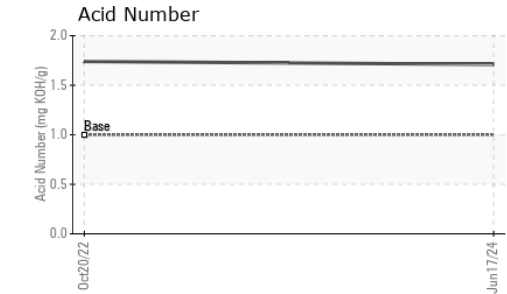
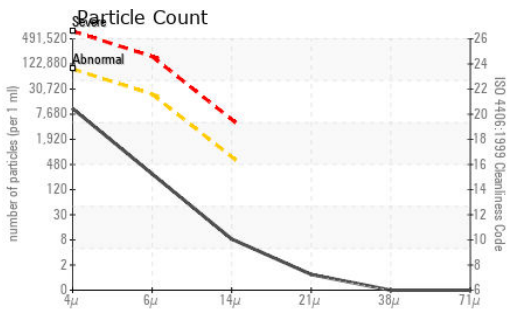
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>31	14	13	---
Potassium	ppm	ASTM D5185m	>20	4	5	---
Water		WC Method	>0.075	NEG	NEG	---
Particles >4µm		ASTM D7647	>80000	9122	19157	---
Particles >6µm		ASTM D7647	>20000	251	486	---
Particles >14µm		ASTM D7647	>640	7	29	---
Particles >21µm		ASTM D7647	>160	1	7	---
Particles >38µm		ASTM D7647	>40	0	1	---
Particles >71µm		ASTM D7647	>10	0	0	---
Oil Cleanliness		ISO 4406 (c)	>23/21/16	20/15/10	21/16/12	---
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. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m	>21	3	0	---
Boron	ppm	ASTM D5185m		226	146	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		168	46	---
Manganese	ppm	ASTM D5185m		<1	<1	---
Magnesium	ppm	ASTM D5185m		576	167	---
Calcium	ppm	ASTM D5185m	87	1677	2034	---
Phosphorus	ppm	ASTM D5185m	727	1000	927	---
Zinc	ppm	ASTM D5185m	900	1107	1060	---
Sulfur	ppm	ASTM D5185m	1500	3872	3902	---
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	1.71	1.74	---
Visc @ 40°C	cSt	ASTM D445	65	85.8	79.5	---



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0050953 **Received** : 24 Jun 2024
Lab Number : 06218077 **Tested** : 25 Jun 2024
Unique Number : 11096274 **Diagnosed** : 25 Jun 2024 - Jonathan Hester
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)