



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
Store 4 - Fairmont [RO# 150872]
Machine Id
JOHN DEERE 544K 1DW544KZCBD640897
Component
Hydraulic System
Fluid
JOHN DEERE HYDRAU (24 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0048243	LEC0045937	---
Sample Date		Client Info		09 May 2024	28 Nov 2023	---
Machine Age	hrs	Client Info		8504	7438	---
Oil Age	hrs	Client Info		8504	7438	---
Filter Age	hrs	Client Info		1504	438	---
Oil Changed		Client Info		Not Changd	Not Changd	---
Filter Changed		Client Info		Not Changd	Not Changd	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

PQ		ASTM D8184	>50	18	5	---
Iron	ppm	ASTM D5185m	>71	28	22	---
Chromium	ppm	ASTM D5185m	>11	7	6	---
Nickel	ppm	ASTM D5185m	>6	0	0	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m		<1	<1	---
Aluminum	ppm	ASTM D5185m	>11	8	7	---
Lead	ppm	ASTM D5185m	>13	<1	0	---
Copper	ppm	ASTM D5185m	>21	7	6	---
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

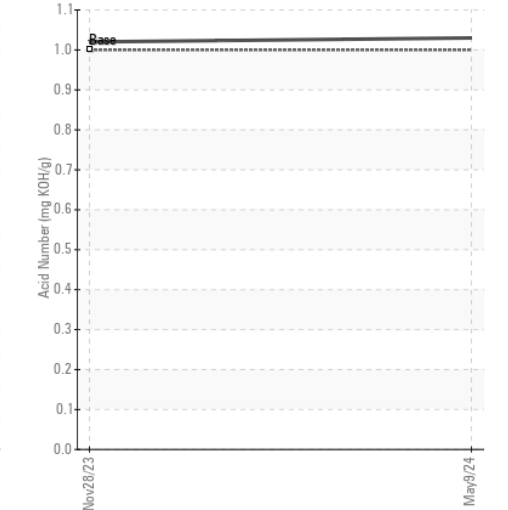
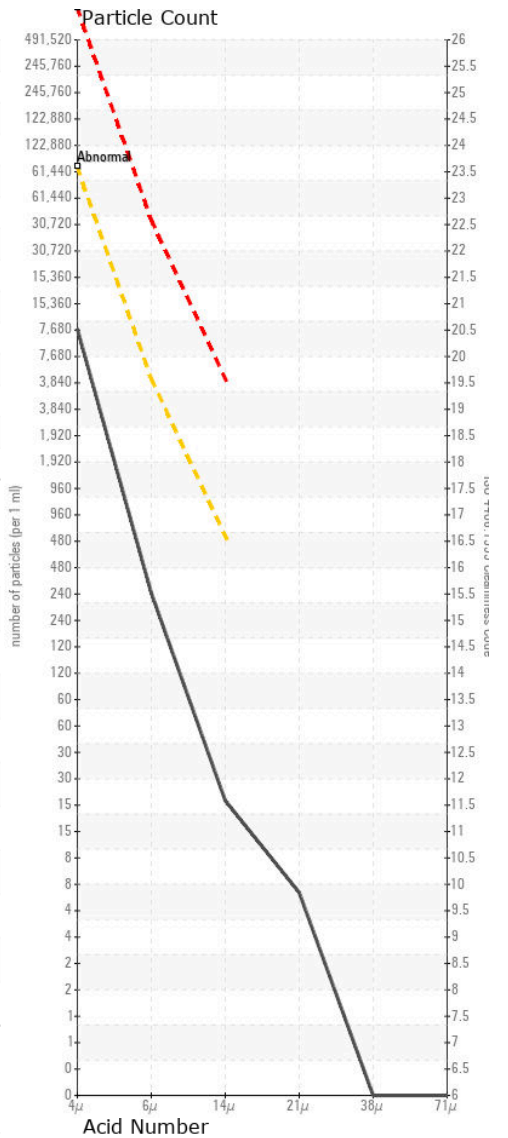
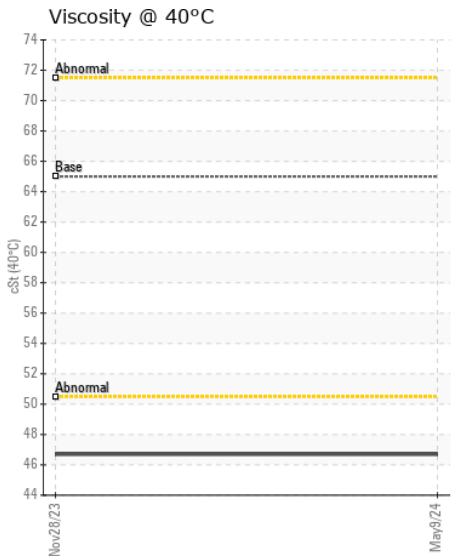
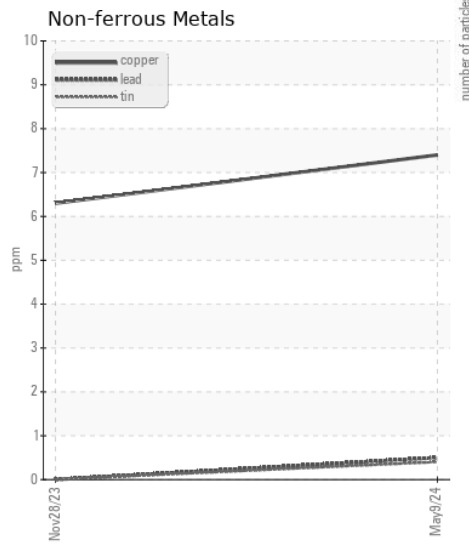
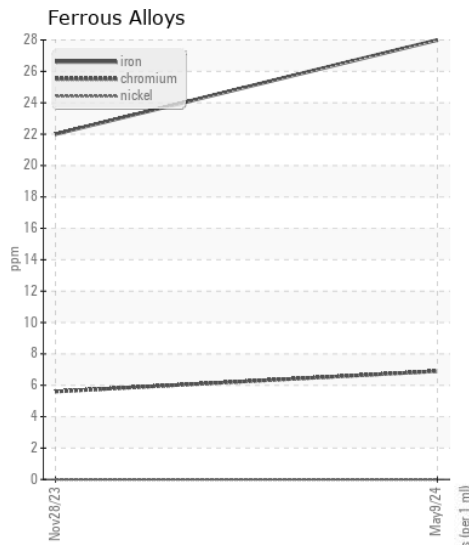
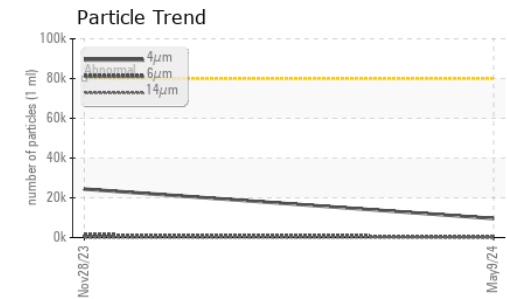
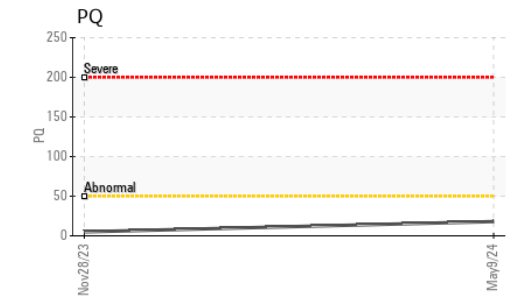
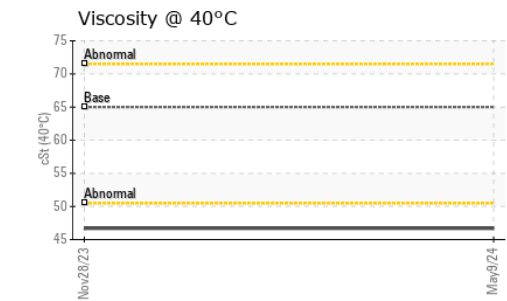
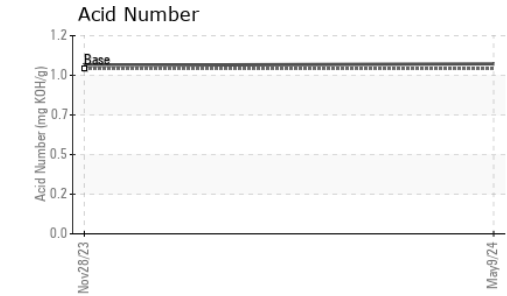
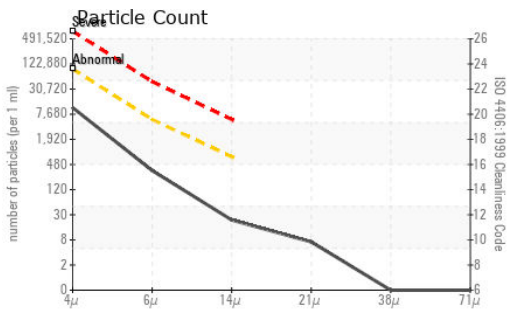
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>24	20	16	---
Potassium	ppm	ASTM D5185m	>20	2	2	---
Water		WC Method	>0.075	NEG	NEG	---
Particles >4µm		ASTM D7647	>80000	9596	24421	---
Particles >6µm		ASTM D7647	>5000	303	1250	---
Particles >14µm		ASTM D7647	>640	20	19	---
Particles >21µm		ASTM D7647	>160	6	4	---
Particles >38µm		ASTM D7647	>40	0	0	---
Particles >71µm		ASTM D7647	>10	0	0	---
Oil Cleanliness		ISO 4406 (c)	>23/19/16	20/15/11	22/17/11	---
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	10	7	---
Boron	ppm	ASTM D5185m		42	39	---
Barium	ppm	ASTM D5185m		2	0	---
Molybdenum	ppm	ASTM D5185m		23	22	---
Manganese	ppm	ASTM D5185m		<1	<1	---
Magnesium	ppm	ASTM D5185m		204	193	---
Calcium	ppm	ASTM D5185m	87	1780	1699	---
Phosphorus	ppm	ASTM D5185m	727	823	747	---
Zinc	ppm	ASTM D5185m	900	906	895	---
Sulfur	ppm	ASTM D5185m	1500	3027	2483	---
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	1.03	1.02	---
Visc @ 40°C	cSt	ASTM D445	65	46.7	46.7	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0048243 **Received** : 14 May 2024
Lab Number : 06178605 **Tested** : 15 May 2024
Unique Number : 11029931 **Diagnosed** : 16 May 2024 - Don Baldrige
Test Package : CONST (Additional Tests: 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)

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