



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
Store 2 - Beaver [ro#149751]
Machine Id
JOHN DEERE 824K 1DW824KXCED660539
Component
Hydraulic System
Fluid
JOHN DEERE HYDRAU (42 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0048895	---	---
Sample Date		Client Info		22 Apr 2024	---	---
Machine Age	hrs	Client Info		8063	---	---
Oil Age	hrs	Client Info		4000	---	---
Filter Age	hrs	Client Info		2000	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		Changed	---	---
Sample Status				NORMAL	---	---

WEAR

All component wear rates are normal.

PQ		ASTM D8184	>50	23	---	---
Iron	ppm	ASTM D5185m	>71	17	---	---
Chromium	ppm	ASTM D5185m	>11	6	---	---
Nickel	ppm	ASTM D5185m	>6	0	---	---
Titanium	ppm	ASTM D5185m		<1	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m	>11	4	---	---
Lead	ppm	ASTM D5185m	>13	0	---	---
Copper	ppm	ASTM D5185m	>21	4	---	---
Tin	ppm	ASTM D5185m	>5	0	---	---
Vanadium	ppm	ASTM D5185m		0	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

CONTAMINATION

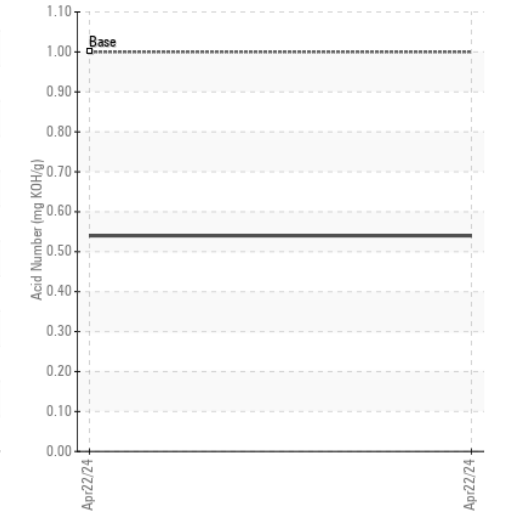
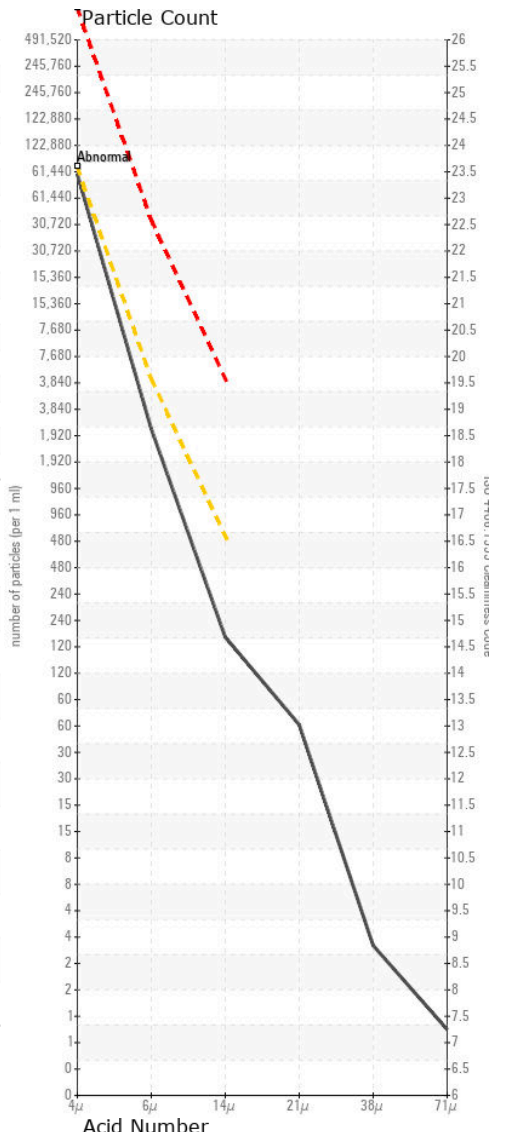
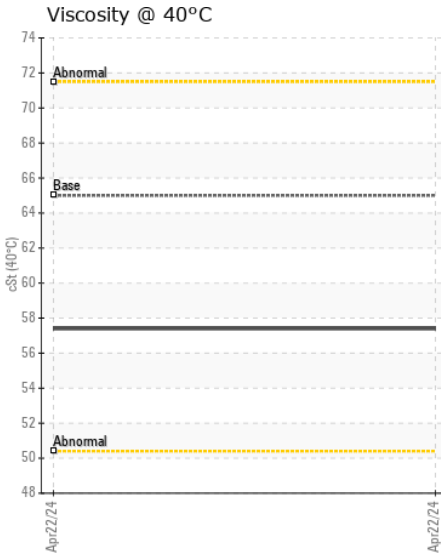
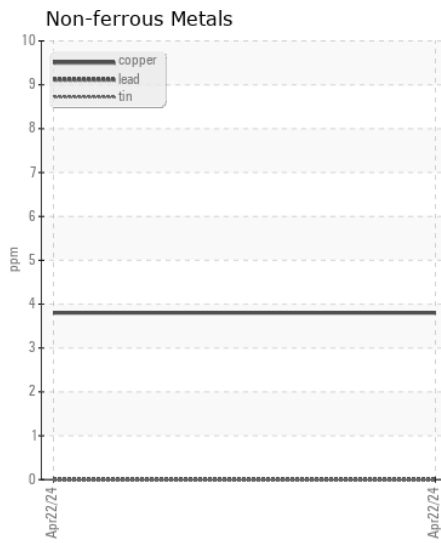
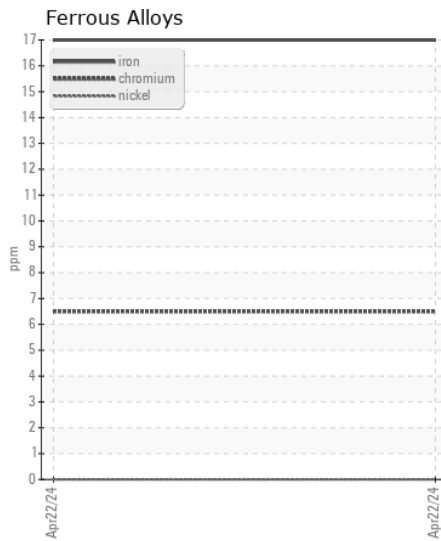
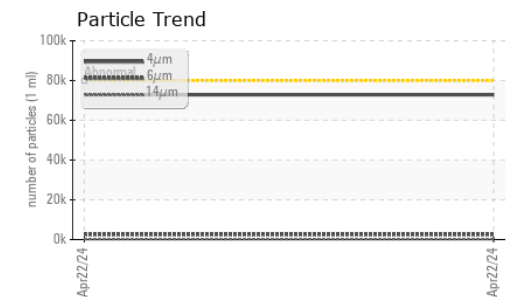
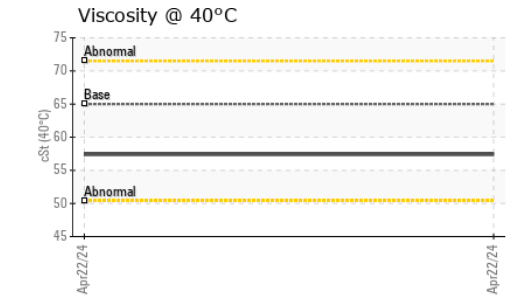
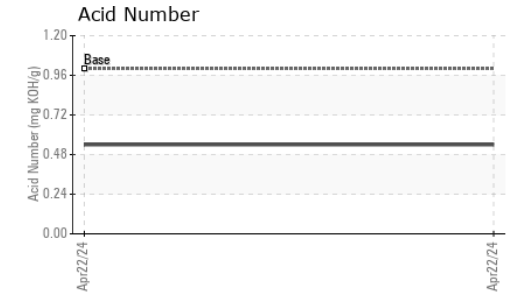
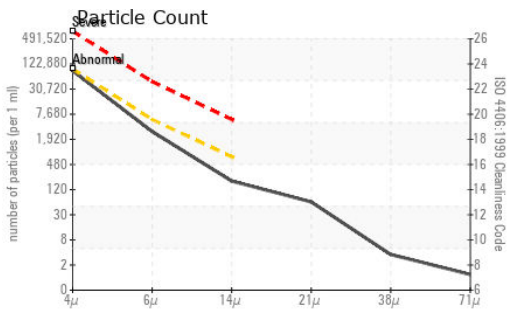
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Silicon	ppm	ASTM D5185m	>24	7	---	---
Potassium	ppm	ASTM D5185m	>20	<1	---	---
Water		WC Method	>0.075	NEG	---	---
Particles >4µm		ASTM D7647	>80000	72841	---	---
Particles >6µm		ASTM D7647	>5000	2593	---	---
Particles >14µm		ASTM D7647	>640	170	---	---
Particles >21µm		ASTM D7647	>160	54	---	---
Particles >38µm		ASTM D7647	>40	3	---	---
Particles >71µm		ASTM D7647	>10	1	---	---
Oil Cleanliness		ISO 4406 (c)	>23/19/16	23/19/15	---	---
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. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m	>21	2	---	---
Boron	ppm	ASTM D5185m		8	---	---
Barium	ppm	ASTM D5185m		0	---	---
Molybdenum	ppm	ASTM D5185m		7	---	---
Manganese	ppm	ASTM D5185m		0	---	---
Magnesium	ppm	ASTM D5185m		31	---	---
Calcium	ppm	ASTM D5185m	87	543	---	---
Phosphorus	ppm	ASTM D5185m	727	482	---	---
Zinc	ppm	ASTM D5185m	900	572	---	---
Sulfur	ppm	ASTM D5185m	1500	1530	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.54	---	---
Visc @ 40°C	cSt	ASTM D445	65	57.4	---	---



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0048895 **Received** : 25 Apr 2024
Lab Number : 06160247 **Tested** : 26 Apr 2024
Unique Number : 10995670 **Diagnosed** : 26 Apr 2024 - Wes Davis
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)