



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
JOHN DEERE 650K-II 1T0650KKHMF398685
 Component
Hydraulic System
 Fluid
JOHN DEERE HYDRAU (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0212207	JR0148506	---
Sample Date		Client Info		23 May 2024	26 Oct 2022	---
Machine Age	hrs	Client Info		959	447	---
Oil Age	hrs	Client Info		959	0	---
Filter Age	hrs	Client Info		959	0	---
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	17	6	---
Iron	ppm	ASTM D5185m	>23	9	2	---
Chromium	ppm	ASTM D5185m	>9	3	0	---
Nickel	ppm	ASTM D5185m	>5	<1	0	---
Titanium	ppm	ASTM D5185m		<1	0	---
Silver	ppm	ASTM D5185m		1	0	---
Aluminum	ppm	ASTM D5185m	>9	1	<1	---
Lead	ppm	ASTM D5185m	>28	<1	0	---
Copper	ppm	ASTM D5185m	>51	4	2	---
Tin	ppm	ASTM D5185m	>5	<1	0	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

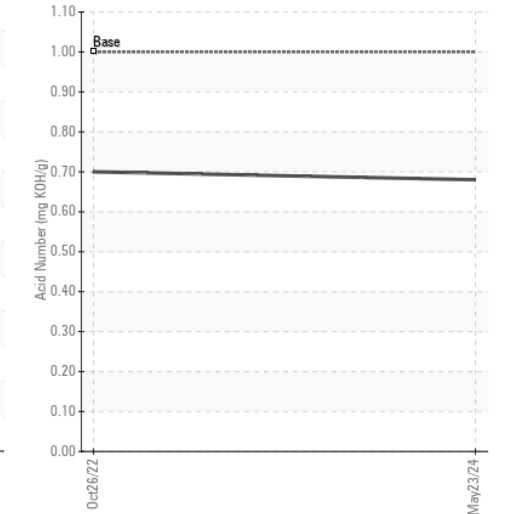
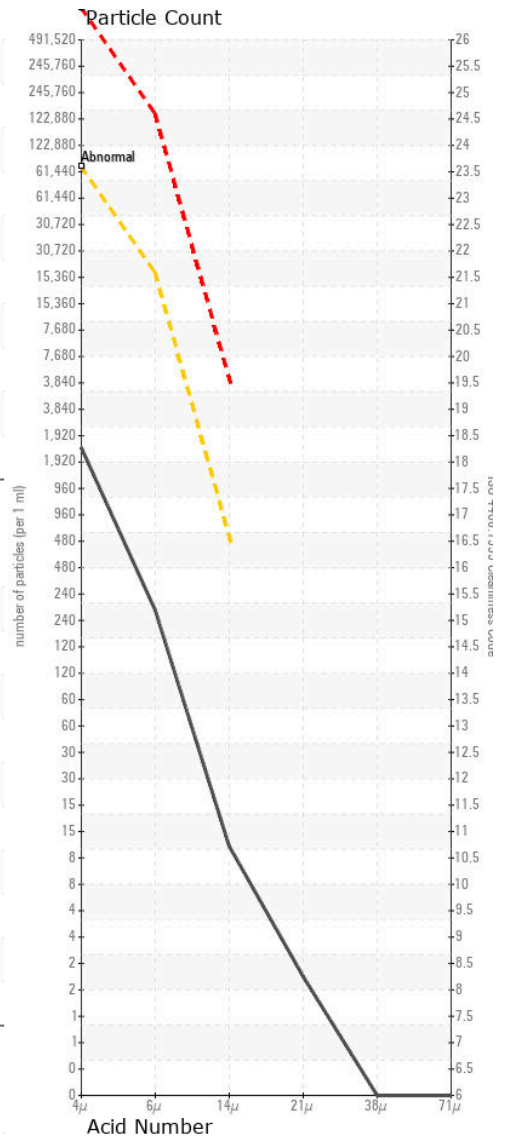
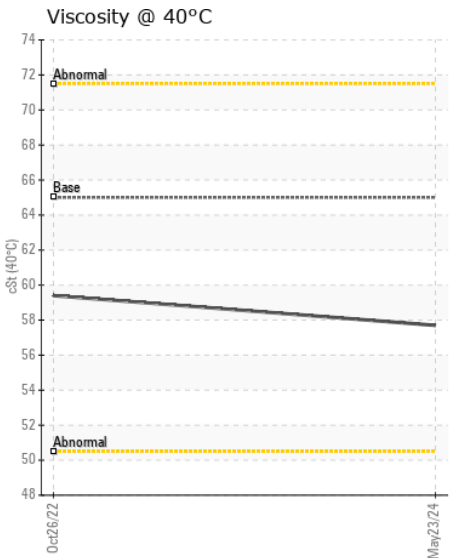
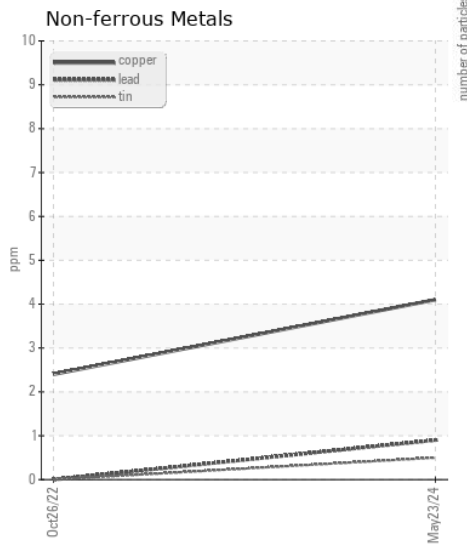
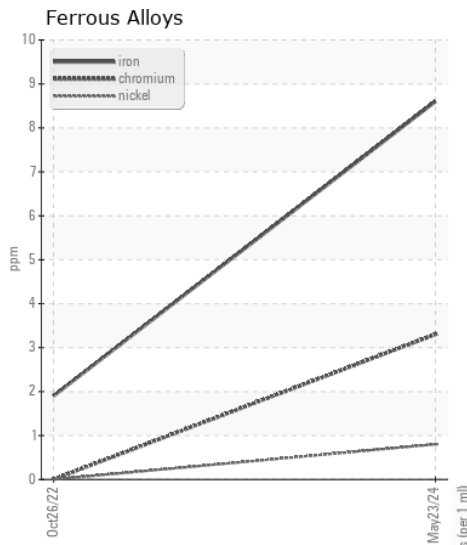
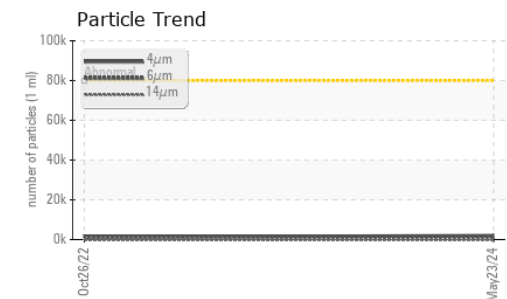
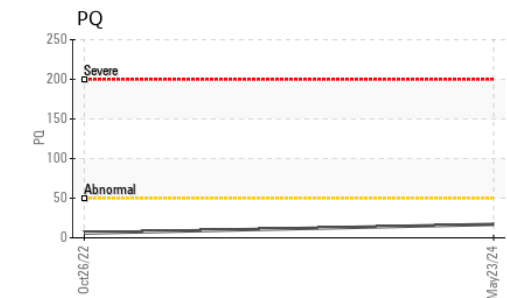
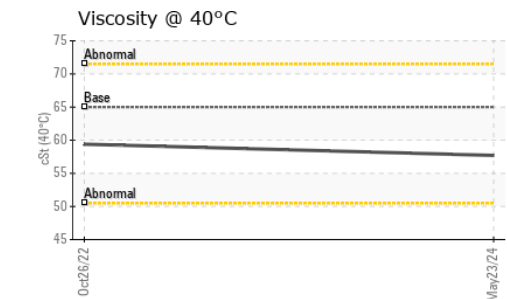
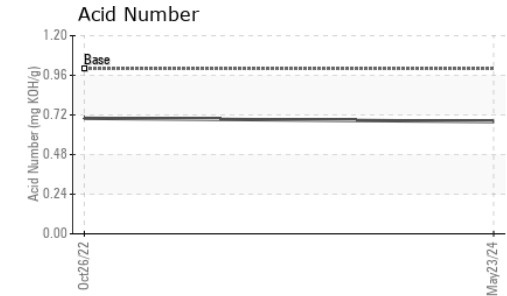
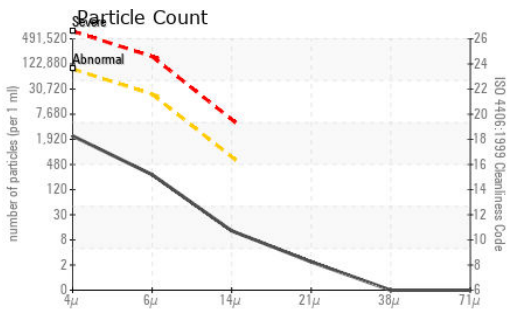
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Silicon	ppm	ASTM D5185m	>31	4	<1	---
Potassium	ppm	ASTM D5185m	>20	2	0	---
Water		WC Method	>0.075	NEG	NEG	---
Particles >4µm		ASTM D7647	>80000	2028	1209	---
Particles >6µm		ASTM D7647	>20000	241	174	---
Particles >14µm		ASTM D7647	>640	11	18	---
Particles >21µm		ASTM D7647	>160	2	5	---
Particles >38µm		ASTM D7647	>40	0	1	---
Particles >71µm		ASTM D7647	>10	0	0	---
Oil Cleanliness		ISO 4406 (c)	>23/21/16	18/15/11	17/15/11	---
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	1	0	---
Boron	ppm	ASTM D5185m		0	0	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		1	<1	---
Manganese	ppm	ASTM D5185m		<1	0	---
Magnesium	ppm	ASTM D5185m		6	0	---
Calcium	ppm	ASTM D5185m	87	65	81	---
Phosphorus	ppm	ASTM D5185m	727	435	598	---
Zinc	ppm	ASTM D5185m	900	544	788	---
Sulfur	ppm	ASTM D5185m	1500	1367	1800	---
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.68	0.70	---
Visc @ 40°C	cSt	ASTM D445	65	57.7	59.4	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : JR0212207

Lab Number : 06194611

Unique Number : 11056734

Test Package : CONST (Additional Tests: PQ)

Received : 29 May 2024

Tested : 30 May 2024

Diagnosed : 30 May 2024 - Wes Davis

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)

JRE - ASHLAND

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