



WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL



Machine Id
JOHN DEERE 624K 1DW624KHEHF681334

Component
Hydraulic System

Fluid
{not provided} (--- GAL)

RECOMMENDATION

We advise that you check for the source of water entry. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. We were unable to perform a particle count due to a high concentration of particles present in this sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0137098	JR0023576	---
Sample Date		Client Info		05 Jul 2022	08 Oct 2019	---
Machine Age	hrs	Client Info		875	0	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Not Changd	N/A	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				ABNORMAL	NORMAL	---

WEAR

The aluminum level is abnormal. All other metal levels are typical for a new component breaking in.

PQ		ASTM D8184	>50	23	17	---
Iron	ppm	ASTM D5185m	>71	73	4	---
Chromium	ppm	ASTM D5185m	>11	<1	4	---
Nickel	ppm	ASTM D5185m	>6	0	0	---
Titanium	ppm	ASTM D5185m		0	0	---
Silver	ppm	ASTM D5185m		5	<1	---
Aluminum	ppm	ASTM D5185m	>11	▲ 43	1	---
Lead	ppm	ASTM D5185m	>13	3	<1	---
Copper	ppm	ASTM D5185m	>21	16	<1	---
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

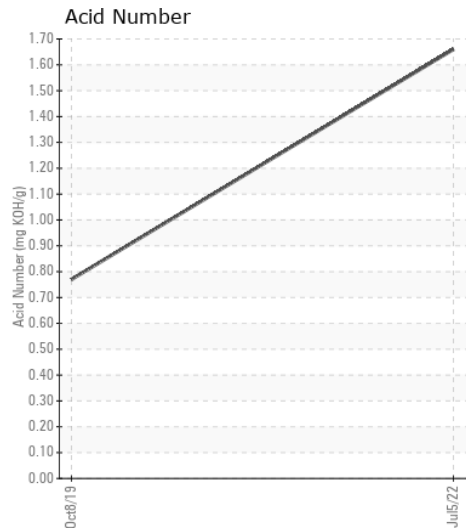
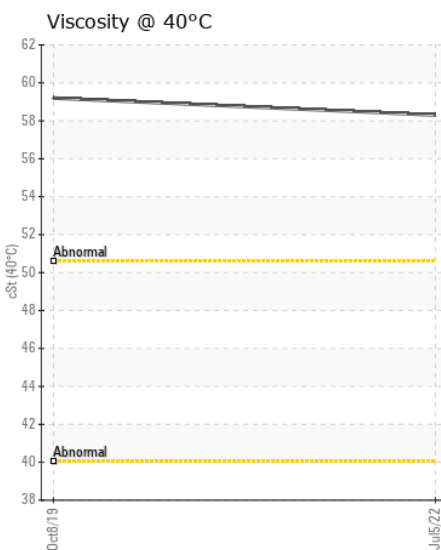
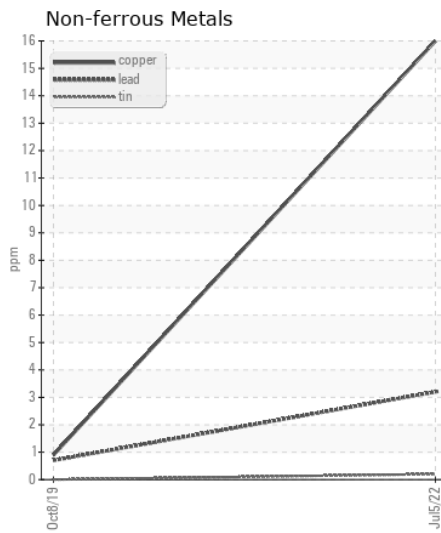
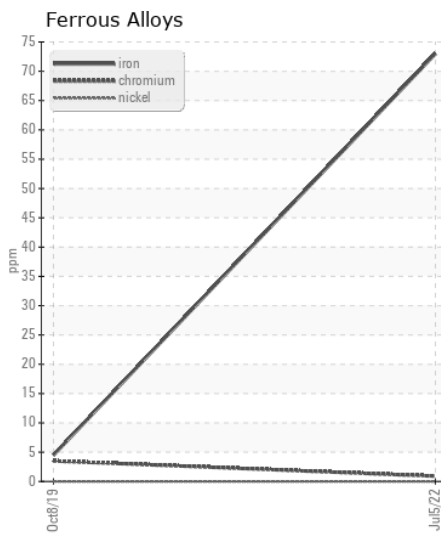
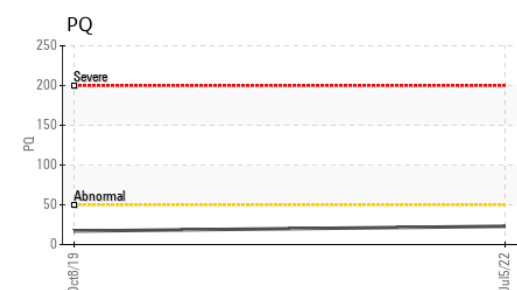
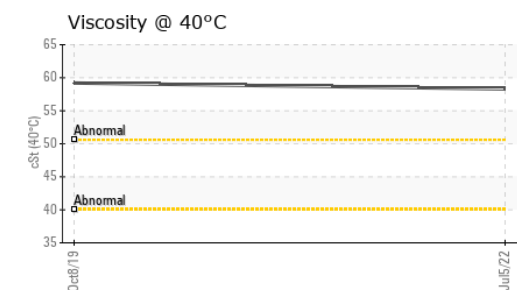
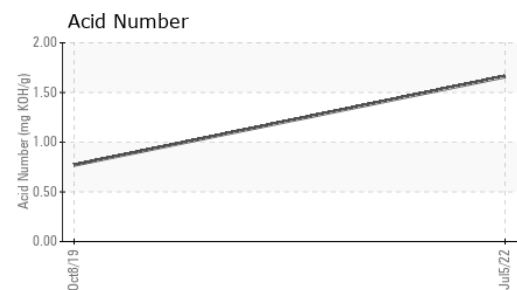
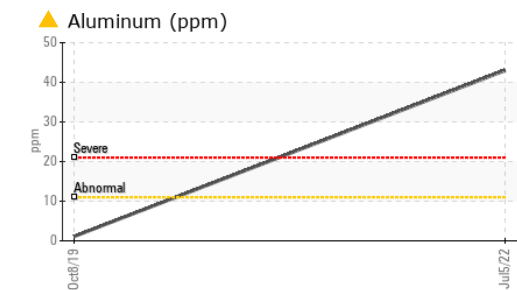
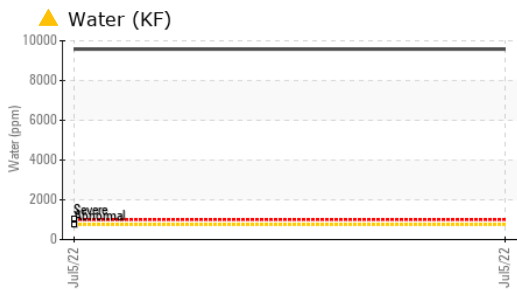
Moderate concentration of visible dirt/debris present in the oil. There is a high concentration of water present in the oil.

Silicon	ppm	ASTM D5185m	>24	2	2	---
Potassium	ppm	ASTM D5185m	>20	17	3	---
Water	%	ASTM D6304	>0.075	▲ 0.958	---	---
ppm Water	ppm	ASTM D6304	>750	▲ 9580	---	---
Particles >4µm		ASTM D7647	>80000	---	20258	---
Particles >6µm		ASTM D7647	>5000	---	1678	---
Particles >14µm		ASTM D7647	>640	---	80	---
Particles >21µm		ASTM D7647	>160	---	23	---
Particles >38µm		ASTM D7647	>40	---	11	---
Particles >71µm		ASTM D7647	>10	---	11	---
Oil Cleanliness		ISO 4406 (c)	>23/19/16	---	22/18/13	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	▲ MODER	VLITE	---
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	▲ 0.2%	NEG	---

FLUID CONDITION

The AN level is acceptable for this fluid.

Sodium	ppm	ASTM D5185m	>21	10	2	---
Boron	ppm	ASTM D5185m		2	1	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		<1	<1	---
Manganese	ppm	ASTM D5185m		<1	<1	---
Magnesium	ppm	ASTM D5185m		2	4	---
Calcium	ppm	ASTM D5185m		8	198	---
Phosphorus	ppm	ASTM D5185m		803	580	---
Zinc	ppm	ASTM D5185m		295	766	---
Sulfur	ppm	ASTM D5185m		1876	1018	---
Acid Number (AN)	mg KOH/g	ASTM D8045		1.66	0.770	---
Visc @ 40°C	cSt	ASTM D445		58.3	59.2	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0137098 **Received** : 06 Jul 2022
Lab Number : 05584539 **Diagnosed** : 07 Jul 2022
Unique Number : 10038965 **Diagnostician** : Don Baldrige
Test Package : CONST (Additional Tests: KF, PQ)

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 US 20111
 Contact: DON VEST
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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)