



WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL



Machine Id
JOHN DEERE 700K 1T0700KXTDE242140

Component
Hydraulic System

Fluid
JOHN DEERE HYDRAU (14 GAL)

RECOMMENDATION

We advise that you check for the source of water entry. We recommend you service the filters on this component. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0200482	JR0125713	JR0068489
Sample Date		Client Info		26 Feb 2024	06 Sep 2022	06 Jan 2021
Machine Age	hrs	Client Info		4935	4462	3903
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Chngd	Not Chngd	Changed
Filter Changed		Client Info		Not Chngd	Not Chngd	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184	>50	20	9	17
Iron	ppm	ASTM D5185m	>23	11	11	9
Chromium	ppm	ASTM D5185m	>9	3	2	2
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>9	4	3	3
Lead	ppm	ASTM D5185m	>28	<1	<1	2
Copper	ppm	ASTM D5185m	>51	17	16	35
Tin	ppm	ASTM D5185m	>5	0	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

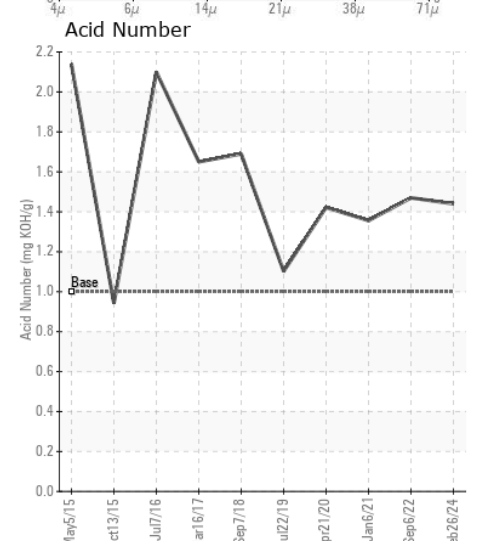
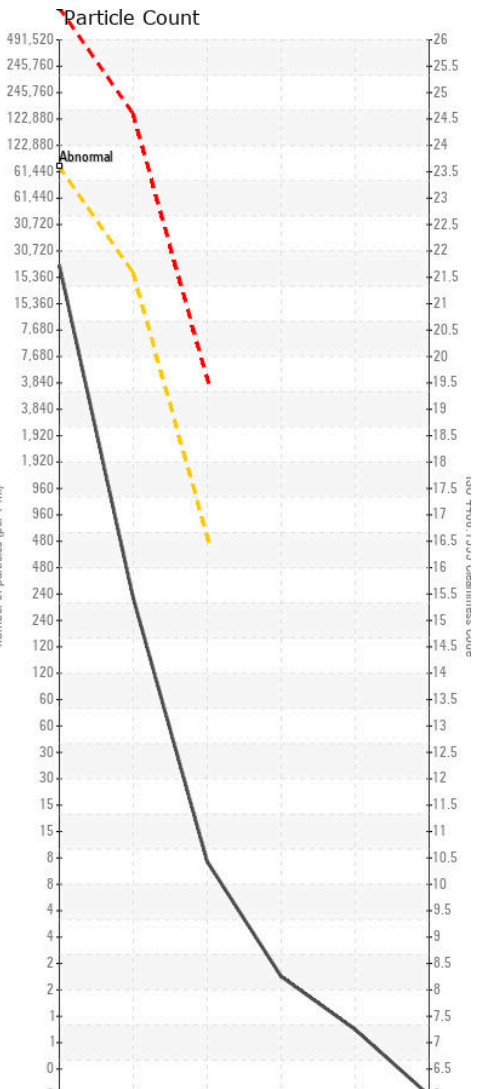
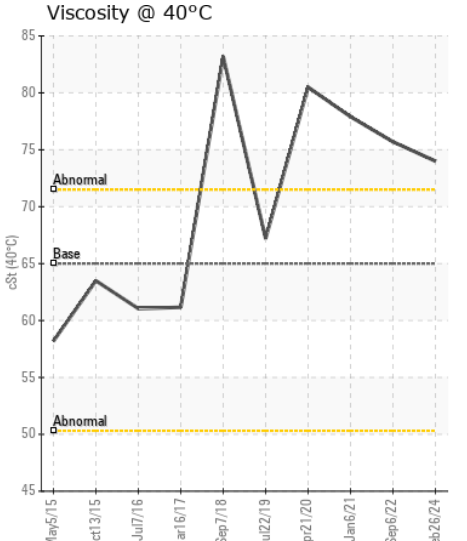
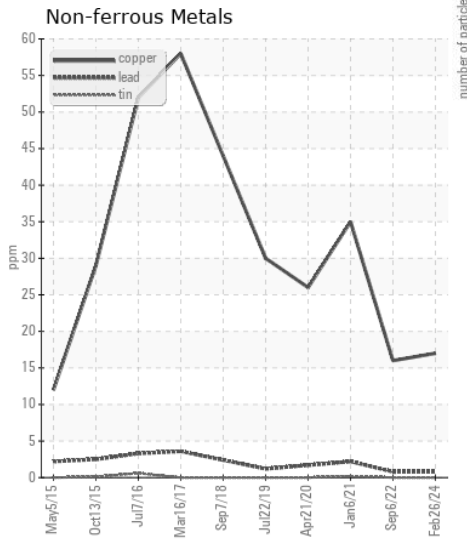
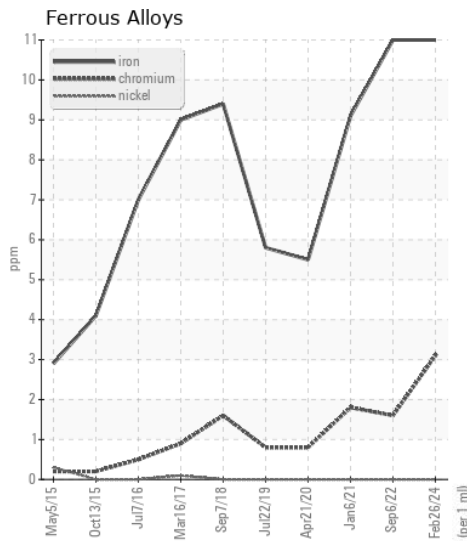
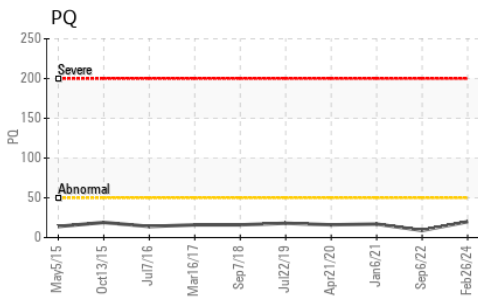
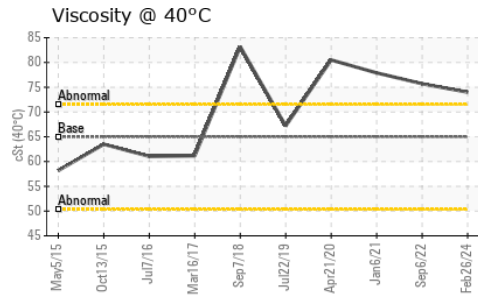
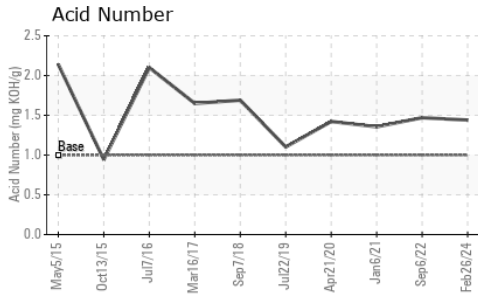
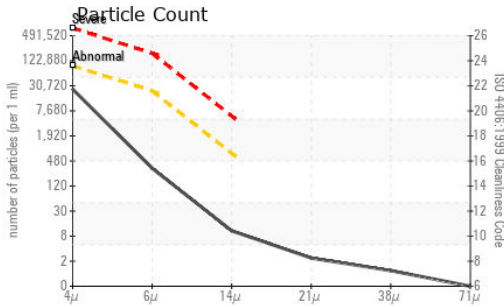
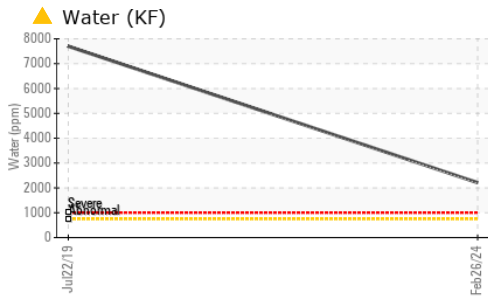
There is a light concentration of water present in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>31	9	8	8
Potassium	ppm	ASTM D5185m	>20	0	0	2
Water	%	ASTM D6304	>0.075	▲ 0.221	---	---
ppm Water	ppm	ASTM D6304	>750	▲ 2210	---	---
Particles >4µm		ASTM D7647	>80000	22158	7554	3180
Particles >6µm		ASTM D7647	>20000	283	144	136
Particles >14µm		ASTM D7647	>640	9	25	13
Particles >21µm		ASTM D7647	>160	2	8	4
Particles >38µm		ASTM D7647	>40	1	1	0
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>23/21/16	22/15/10	20/14/12	19/14/11
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.075	▲ 0.2%	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	0	2	3
Boron	ppm	ASTM D5185m		165	208	192
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		155	157	167
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		523	516	552
Calcium	ppm	ASTM D5185m	87	1349	1436	1062
Phosphorus	ppm	ASTM D5185m	727	776	833	817
Zinc	ppm	ASTM D5185m	900	954	960	960
Sulfur	ppm	ASTM D5185m	1500	2618	2815	2308
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	1.44	1.47	1.356
Visc @ 40°C	cSt	ASTM D445	65	74.0	75.7	77.9



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0200482 **Received** : 27 Feb 2024
Lab Number : 06101513 **Tested** : 28 Feb 2024
Unique Number : 10899743 **Diagnosed** : 29 Feb 2024 - Jonathan Hester
Test Package : CONST (Additional Tests: KF, 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)