



WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL



Machine Id
JOHN DEERE 700J T0700JX116791
Component
Hydraulic System
Fluid
{not provided} (--- QTS)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0208774	JR0103310	---
Sample Date		Client Info		20 Mar 2024	10 Nov 2021	---
Machine Age	hrs	Client Info		5587	5377	---
Oil Age	hrs	Client Info		210	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				ABNORMAL	NORMAL	---

WEAR

The iron level is abnormal.

PQ		ASTM D8184	>50	34	18	---
Iron	ppm	ASTM D5185m	>23	▲ 24	12	---
Chromium	ppm	ASTM D5185m	>9	6	<1	---
Nickel	ppm	ASTM D5185m	>5	0	<1	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m		<1	0	---
Aluminum	ppm	ASTM D5185m	>9	5	<1	---
Lead	ppm	ASTM D5185m	>28	0	8	---
Copper	ppm	ASTM D5185m	>51	12	38	---
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

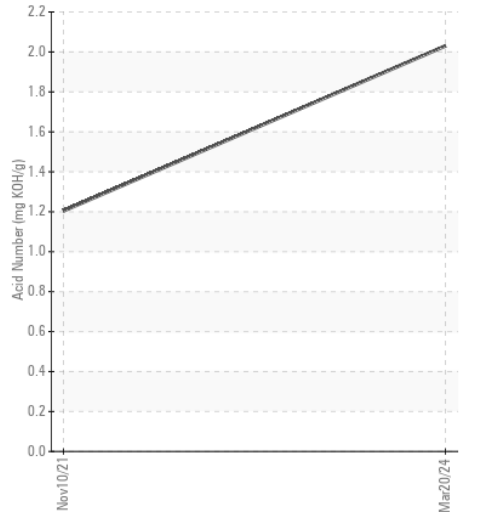
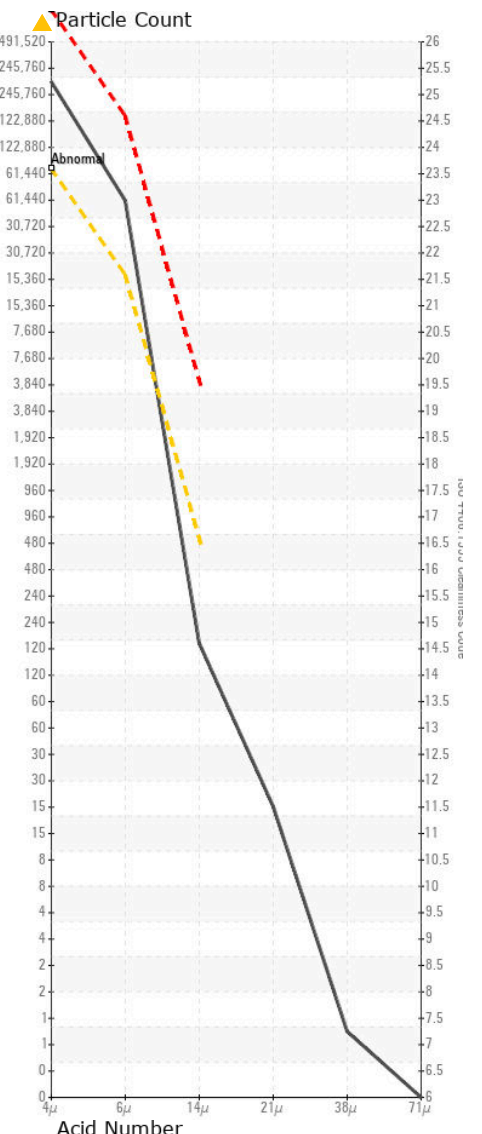
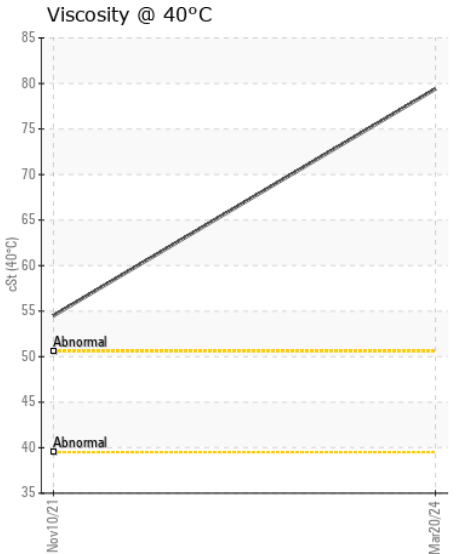
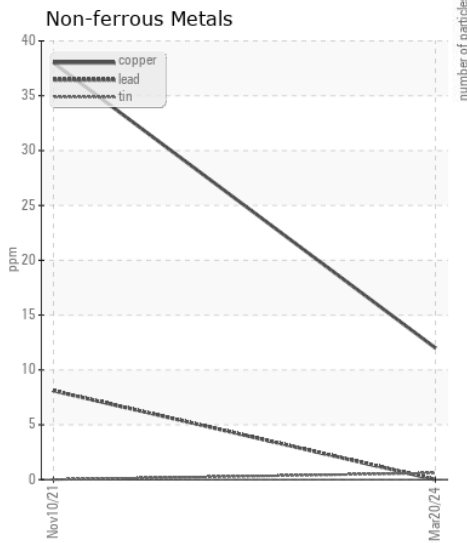
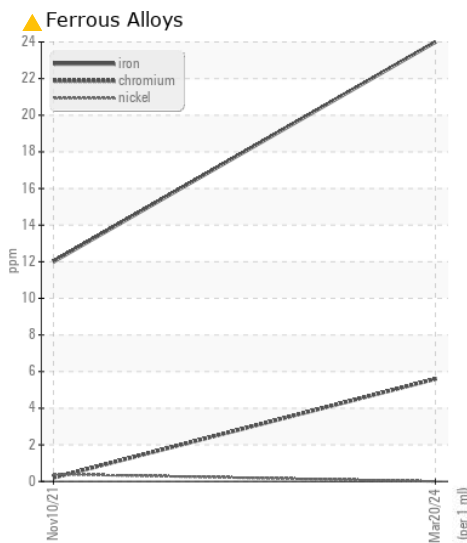
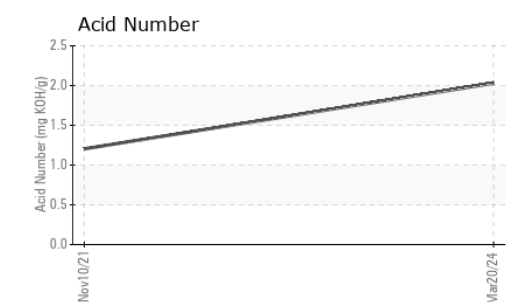
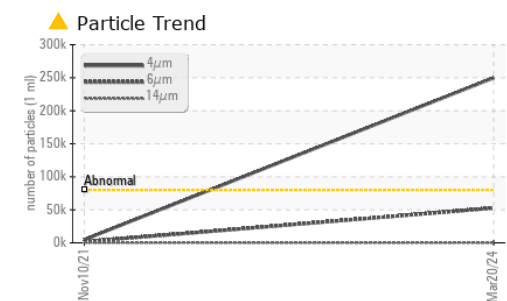
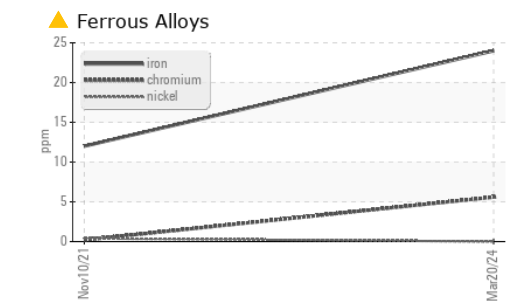
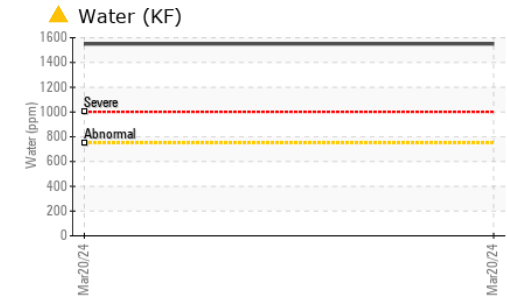
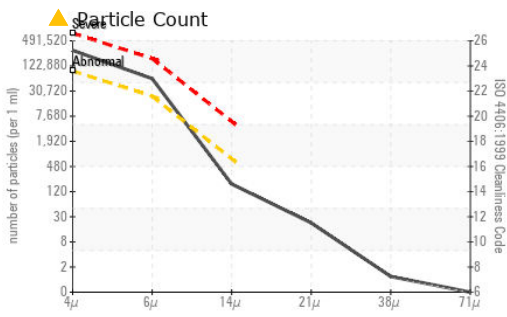
There is a high amount of silt (particulates < 14 microns in size) present in the oil. There is a light concentration of water present in the oil.

Silicon	ppm	ASTM D5185m	>31	12	27	---
Potassium	ppm	ASTM D5185m	>20	2	10	---
Water	%	ASTM D6304	>0.075	▲ 0.155	---	---
ppm Water	ppm	ASTM D6304	>750	▲ 1550	---	---
Particles >4µm		ASTM D7647	>80000	▲ 249905	4790	---
Particles >6µm		ASTM D7647	>20000	▲ 52689	1625	---
Particles >14µm		ASTM D7647	>640	161	259	---
Particles >21µm		ASTM D7647	>160	19	61	---
Particles >38µm		ASTM D7647	>40	1	5	---
Particles >71µm		ASTM D7647	>10	0	1	---
Oil Cleanliness		ISO 4406 (c)	>23/21/16	▲ 25/23/15	19/18/15	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	LIGHT	---
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 condition of the oils additive package is suitable for further service.

Sodium	ppm	ASTM D5185m	>21	2	4	---
Boron	ppm	ASTM D5185m		213	12	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		179	2	---
Manganese	ppm	ASTM D5185m		<1	<1	---
Magnesium	ppm	ASTM D5185m		578	192	---
Calcium	ppm	ASTM D5185m		1586	2002	---
Phosphorus	ppm	ASTM D5185m		861	974	---
Zinc	ppm	ASTM D5185m		1014	1116	---
Sulfur	ppm	ASTM D5185m		3410	4061	---
Acid Number (AN)	mg KOH/g	ASTM D8045		2.03	1.204	---
Visc @ 40°C	cSt	ASTM D445		79.4	54.5	---



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0208774 **Received** : 21 Mar 2024
Lab Number : 06124789 **Tested** : 26 Mar 2024
Unique Number : 10938940 **Diagnosed** : 26 Mar 2024 - Jonathan Hester
Test Package : CONST (Additional Tests: KF, PQ)

JRE - GREENVILLE
 3604 HIGHWAY 264 E
 GREENVILLE, NC
 US 27834-5800

Certificate L2367
 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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