



WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
[W66345]

Machine Id
JOHN DEERE 333G 1T0333GMTLF389489

Component
Hydraulic System

Fluid
{not provided} (--- GAL)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. 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		JR0215175	JR0142243	JR0102630
Sample Date		Client Info		24 Apr 2024	14 Oct 2022	20 Sep 2021
Machine Age	hrs	Client Info		1597	874	393
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Chngd	N/A	Not Chngd
Filter Changed		Client Info		Not Chngd	N/A	Not Chngd
Sample Status				ABNORMAL	ABNORMAL	NORMAL

WEAR

The iron level is abnormal. All other component wear rates are normal.

Test	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		20	7	20
Iron	ppm	ASTM D5185m	>20	▲ 40	0	16
Chromium	ppm	ASTM D5185m	>10	<1	0	<1
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		1	0	<1
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>10	● 25	<1	3
Lead	ppm	ASTM D5185m	>10	0	0	8
Copper	ppm	ASTM D5185m	>75	4	0	4
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

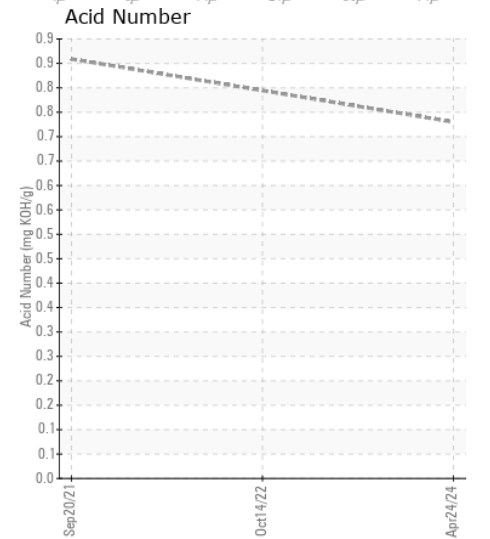
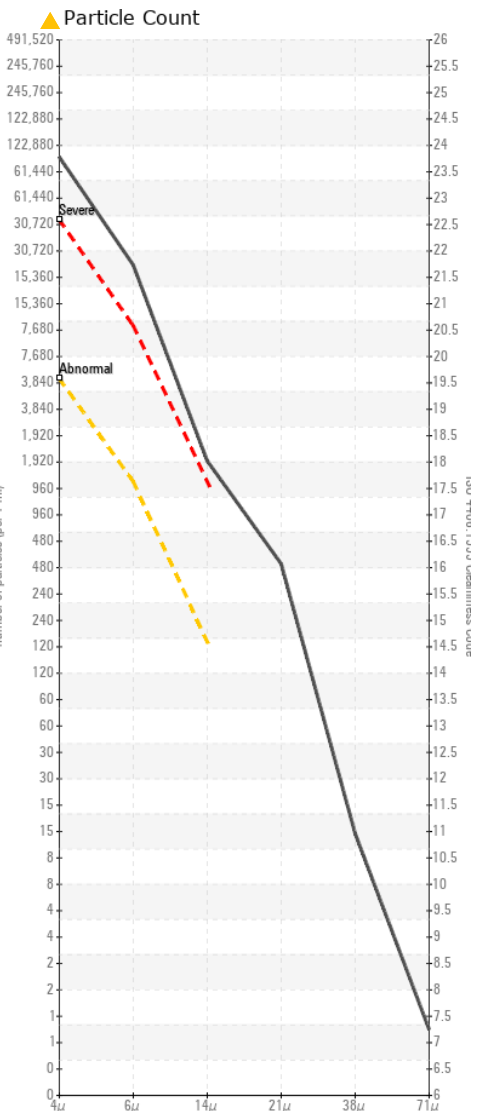
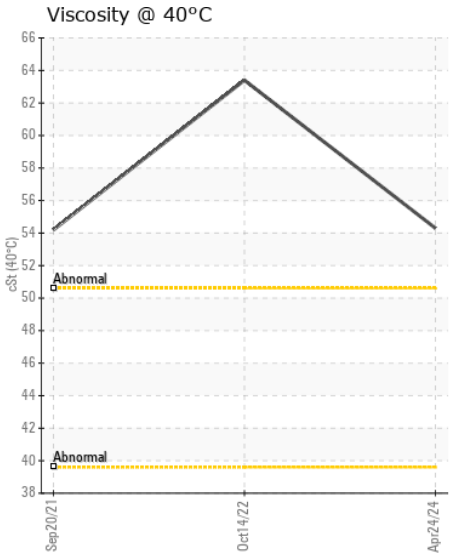
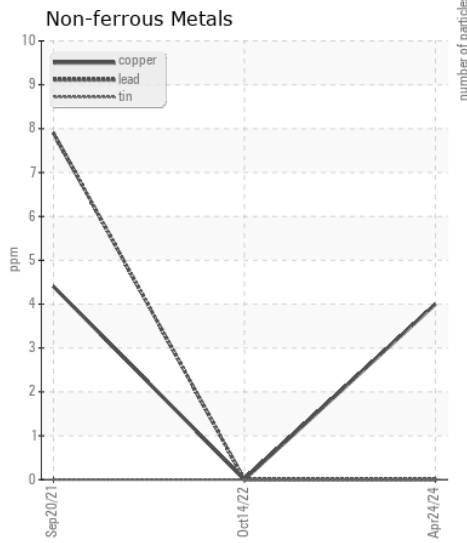
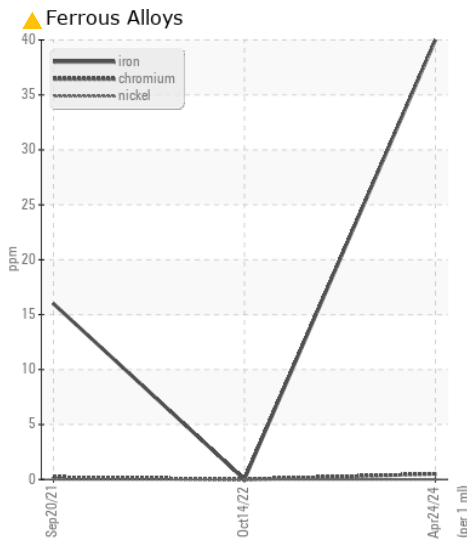
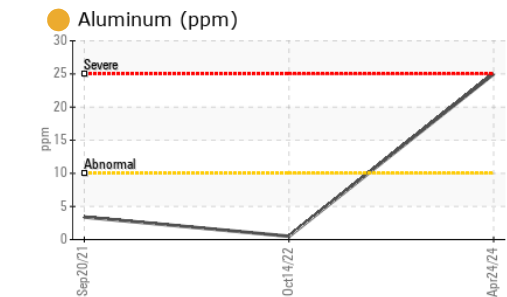
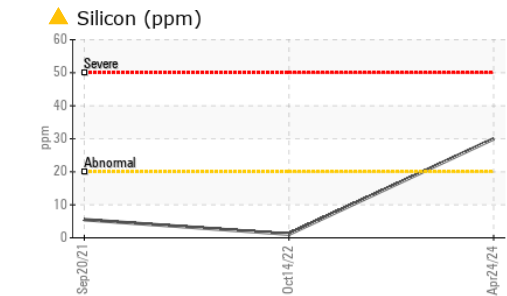
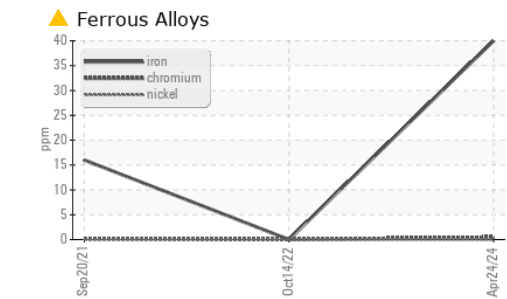
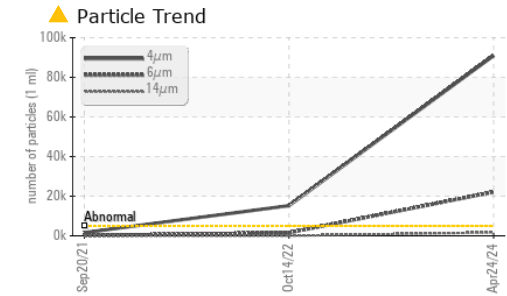
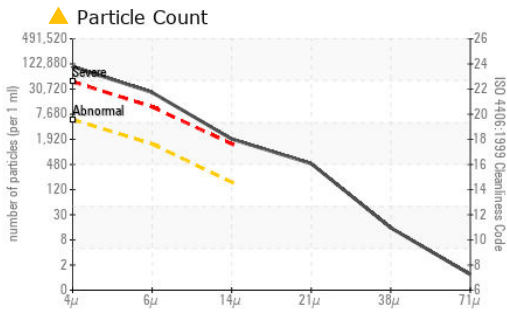
There is a high amount of particulates present in the oil. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>20	▲ 30	1	6
Potassium	ppm	ASTM D5185m	>20	3	0	1
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	▲ 90955	▲ 15211	1613
Particles >6µm		ASTM D7647	>1300	▲ 22109	● 1563	129
Particles >14µm		ASTM D7647	>160	▲ 1706	30	6
Particles >21µm		ASTM D7647	>40	▲ 443	6	2
Particles >38µm		ASTM D7647	>10	▲ 13	1	0
Particles >71µm		ASTM D7647	>3	1	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 24/22/18	▲ 21/18/12	18/14/10
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	>0.1	NEG	NEG	NEG

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		2	0	<1
Boron	ppm	ASTM D5185m		10	6	0
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		2	9	<1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		9	24	3
Calcium	ppm	ASTM D5185m		238	133	108
Phosphorus	ppm	ASTM D5185m		678	635	561
Zinc	ppm	ASTM D5185m		833	843	848
Sulfur	ppm	ASTM D5185m		2046	1734	1703
Acid Number (AN)	mg KOH/g	ASTM D8045		0.73	---	0.859
Visc @ 40°C	cSt	ASTM D445		54.3	63.4	54.2



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0215175 **Received** : 25 Apr 2024
Lab Number : 06160259 **Tested** : 26 Apr 2024
Unique Number : 10995682 **Diagnosed** : 26 Apr 2024 - Don Baldrige
Test Package : CONST (Additional Tests: PQ)

JRE - CHARLOTTE
 9550 STATESVILLE ROAD
 CHARLOTTE, NC
 US 28269
 Contact: CHARLOTTE SHOP
 myoung@jamesriverequipment.com
 T: (704)597-0211
 F: (704)596-6198

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)