



WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
[W16117]

Machine Id
JOHN DEERE 317G 1T0317GELJ371409

Component
Hydraulic System

Fluid
JOHN DEERE HYDRAU (6 GAL)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0217219	JR0110343	---
Sample Date		Client Info		11 Jun 2024	25 Feb 2022	---
Machine Age	hrs	Client Info		1711	590	---
Oil Age	hrs	Client Info		1711	590	---
Filter Age	hrs	Client Info		1711	590	---
Oil Changed		Client Info		Changed	Not Changd	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				ABNORMAL	ABNORMAL	---

WEAR

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

PQ	UOM	Method	Limit/Abn	Current	History1	History2
Iron	ppm	ASTM D5185m	>20	77	38	---
Chromium	ppm	ASTM D5185m	>10	4	1	---
Nickel	ppm	ASTM D5185m	>10	1	0	---
Titanium	ppm	ASTM D5185m		1	<1	---
Silver	ppm	ASTM D5185m		<1	<1	---
Aluminum	ppm	ASTM D5185m	>10	25	14	---
Lead	ppm	ASTM D5185m	>10	5	3	---
Copper	ppm	ASTM D5185m	>75	31	25	---
Tin	ppm	ASTM D5185m	>10	<1	<1	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

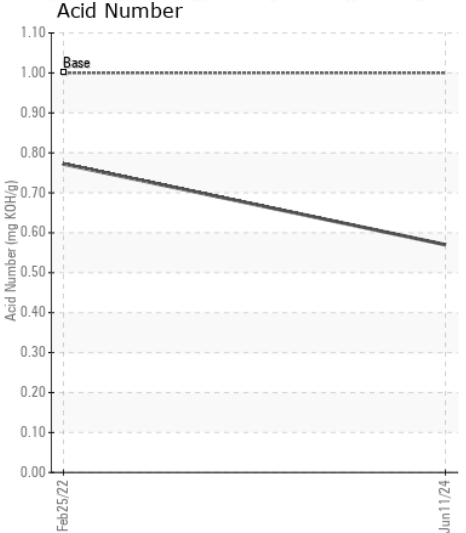
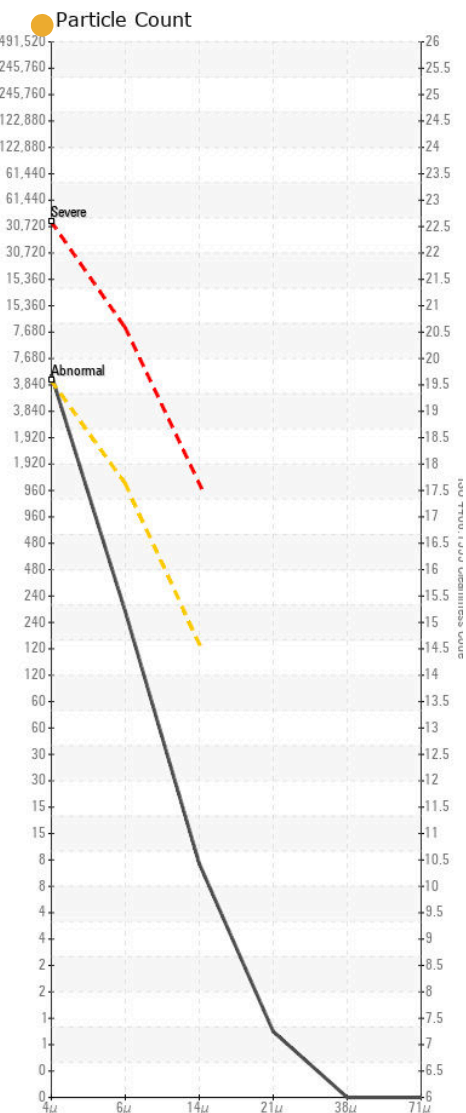
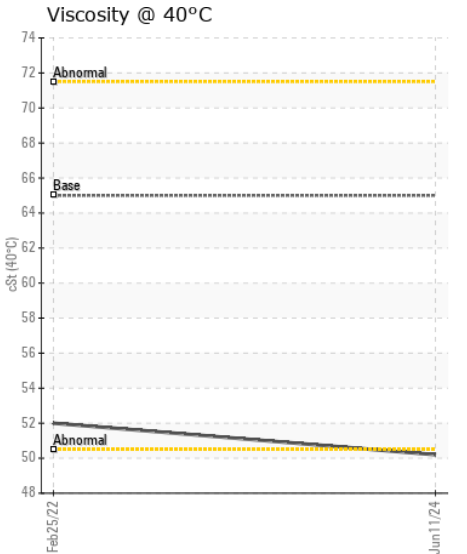
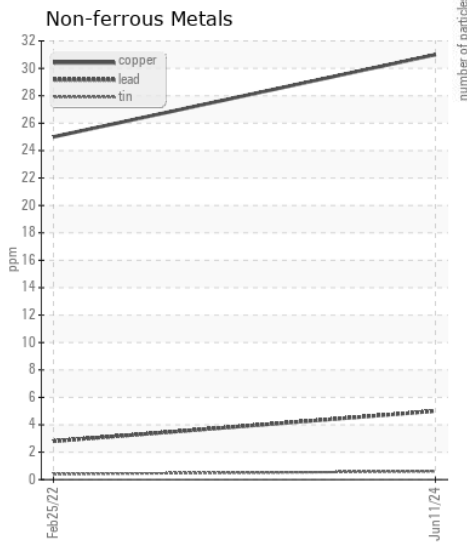
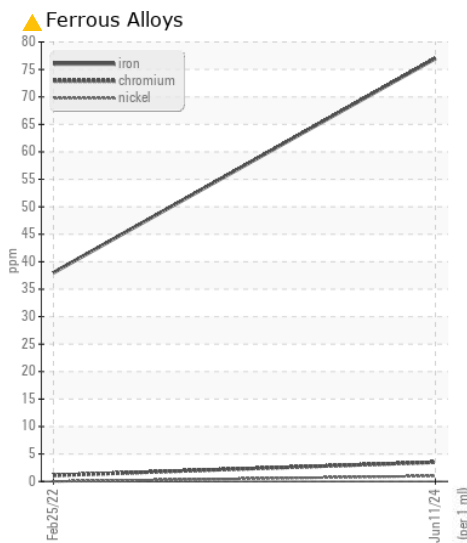
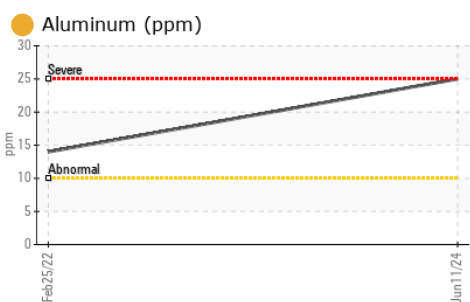
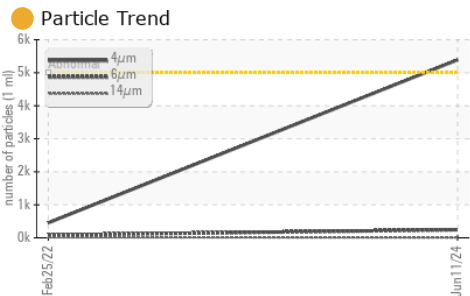
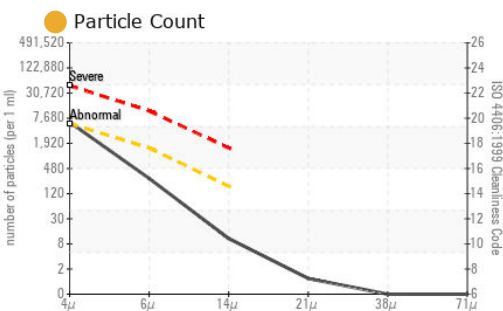
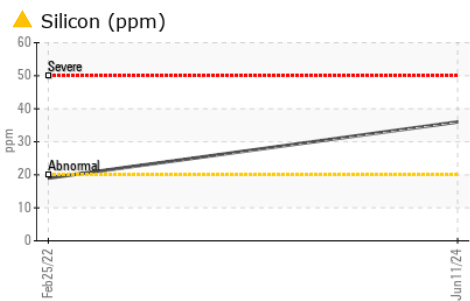
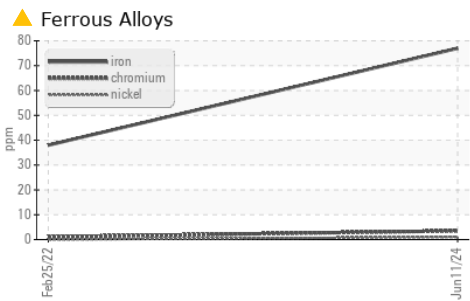
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>20	36	19	---
Potassium	ppm	ASTM D5185m	>20	6	3	---
Water		WC Method	>0.1	NEG	NEG	---
Particles >4µm		ASTM D7647	>5000	5392	455	---
Particles >6µm		ASTM D7647	>1300	244	85	---
Particles >14µm		ASTM D7647	>160	9	16	---
Particles >21µm		ASTM D7647	>40	1	4	---
Particles >38µm		ASTM D7647	>10	0	1	---
Particles >71µm		ASTM D7647	>3	0	0	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	20/15/10	16/14/11	---
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	>0.1	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		4	3	---
Boron	ppm	ASTM D5185m		0	2	---
Barium	ppm	ASTM D5185m		<1	0	---
Molybdenum	ppm	ASTM D5185m		<1	<1	---
Manganese	ppm	ASTM D5185m		<1	<1	---
Magnesium	ppm	ASTM D5185m		4	2	---
Calcium	ppm	ASTM D5185m	87	66	77	---
Phosphorus	ppm	ASTM D5185m	727	600	661	---
Zinc	ppm	ASTM D5185m	900	804	793	---
Sulfur	ppm	ASTM D5185m	1500	1664	1697	---
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.57	0.772	---
Visc @ 40°C	cSt	ASTM D445	65	50.2	52.0	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0217219 **Received** : 17 Jun 2024
Lab Number : 06211496 **Tested** : 18 Jun 2024
Unique Number : 11084360 **Diagnosed** : 18 Jun 2024 - Angela Borella
Test Package : CONST (Additional Tests: PQ)

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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