



WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
[W29346-01 TREX]
 Machine Id
JOHN DEERE 318G 1T0318GALMJ395231
 Component
Hydraulic System
 Fluid
{not provided} (--- GAL)

RECOMMENDATION

The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. 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		JR0221409	JR0159432	---
Sample Date		Client Info		24 Jun 2024	20 Apr 2023	---
Machine Age	hrs	Client Info		2227	1191	---
Oil Age	hrs	Client Info		0	1191	---
Filter Age	hrs	Client Info		0	1191	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				ABNORMAL	ABNORMAL	---

WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		20	15	---
Iron	ppm	ASTM D5185m	>20	12	▲ 25	---
Chromium	ppm	ASTM D5185m	>10	0	<1	---
Nickel	ppm	ASTM D5185m	>10	0	0	---
Titanium	ppm	ASTM D5185m		0	0	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>10	0	0	---
Lead	ppm	ASTM D5185m	>10	1	5	---
Copper	ppm	ASTM D5185m	>75	6	10	---
Tin	ppm	ASTM D5185m	>10	0	<1	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

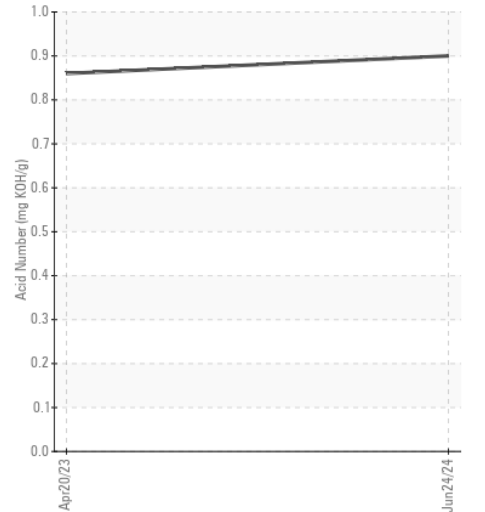
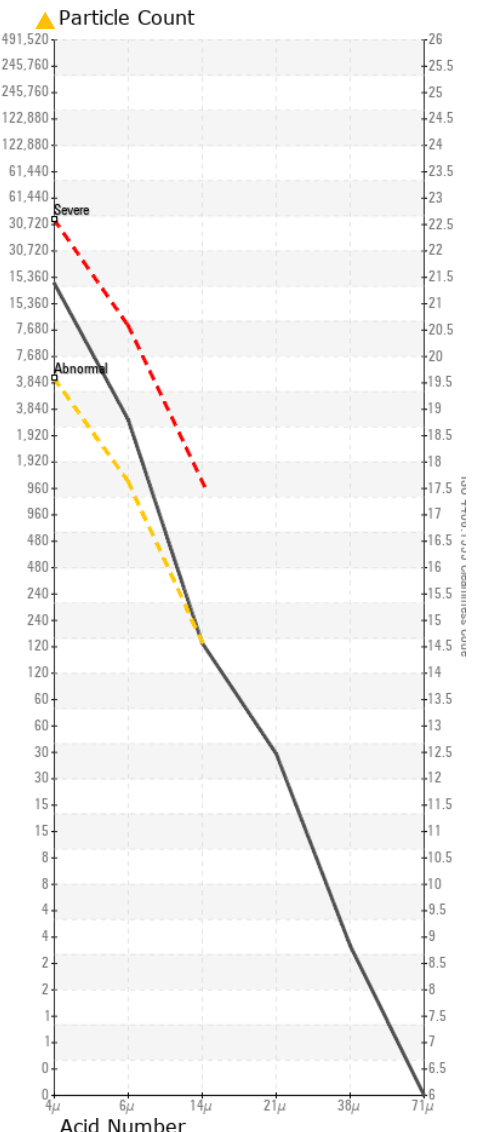
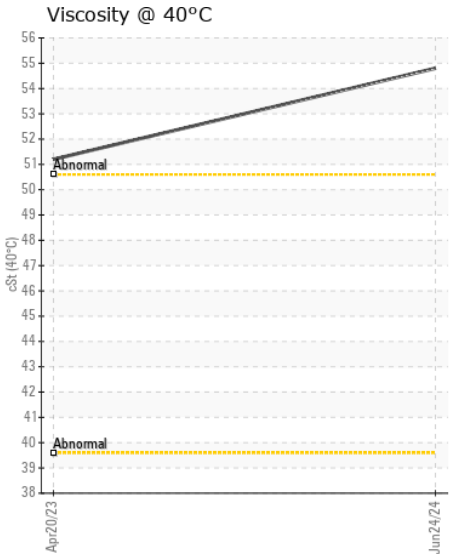
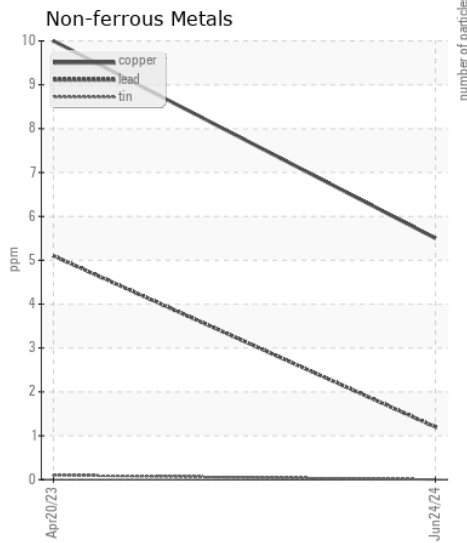
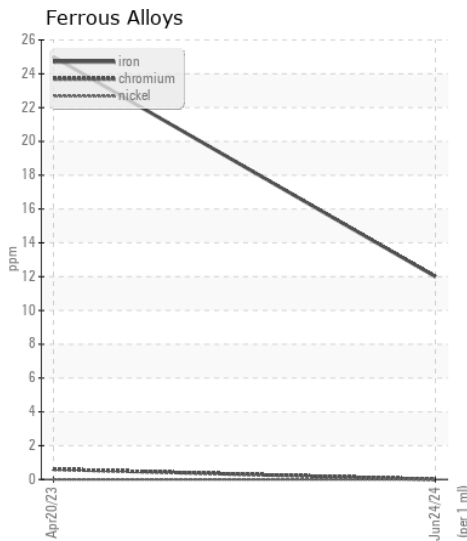
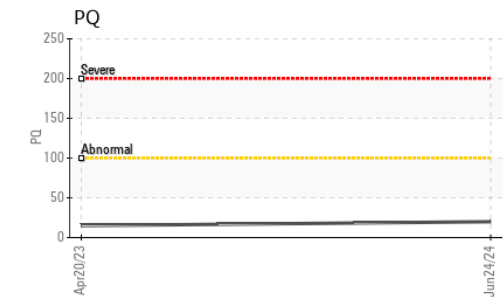
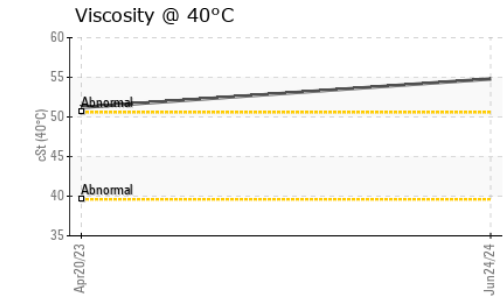
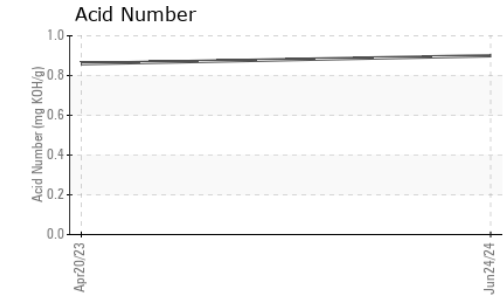
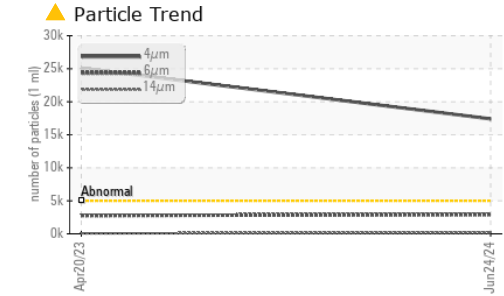
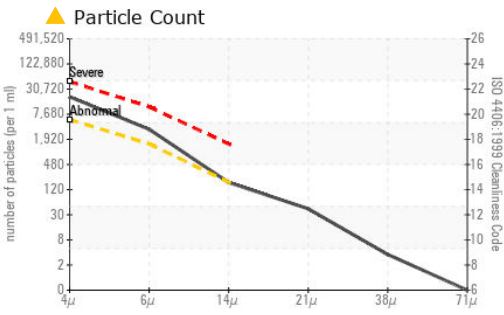
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>20	2	3	---
Potassium	ppm	ASTM D5185m	>20	1	2	---
Water		WC Method	>0.1	NEG	NEG	---
Particles >4µm		ASTM D7647	>5000	▲ 17403	▲ 25094	---
Particles >6µm		ASTM D7647	>1300	▲ 2922	▲ 2764	---
Particles >14µm		ASTM D7647	>160	157	67	---
Particles >21µm		ASTM D7647	>40	37	16	---
Particles >38µm		ASTM D7647	>10	3	1	---
Particles >71µm		ASTM D7647	>3	0	0	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 21/19/14	▲ 22/19/13	---
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 oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Sodium	ppm	ASTM D5185m		2	0	---
Boron	ppm	ASTM D5185m		<1	4	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		0	6	---
Manganese	ppm	ASTM D5185m		<1	<1	---
Magnesium	ppm	ASTM D5185m		18	64	---
Calcium	ppm	ASTM D5185m		599	1845	---
Phosphorus	ppm	ASTM D5185m		758	824	---
Zinc	ppm	ASTM D5185m		900	960	---
Sulfur	ppm	ASTM D5185m		2185	2405	---
Acid Number (AN)	mg KOH/g	ASTM D8045		0.90	0.86	---
Visc @ 40°C	cSt	ASTM D445		54.8	51.2	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0221409 **Received** : 26 Jun 2024
Lab Number : 06221079 **Tested** : 27 Jun 2024
Unique Number : 11099276 **Diagnosed** : 27 Jun 2024 - Wes Davis
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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