



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
Store 9 - Marietta

Machine Id
JOHN DEERE 333G E131 (S/N JF333009)

Component
Hydraulic System

Fluid
SAE 10W (--- GAL)

RECOMMENDATION

The 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		LEC0049258	LEC0014438	---
Sample Date		Client Info		24 Jun 2024	23 Sep 2020	---
Machine Age	hrs	Client Info		1751	575	---
Oil Age	hrs	Client Info		1751	575	---
Filter Age	hrs	Client Info		1000	575	---
Oil Changed		Client Info		Not Changed	Not Changed	---
Filter Changed		Client Info		Changed	Not Changed	---
Sample Status				ABNORMAL	ABNORMAL	---

WEAR

All component wear rates are normal.

PQ		ASTM D8184		20	25	---
Iron	ppm	ASTM D5185m	>20	13	25	---
Chromium	ppm	ASTM D5185m	>10	3	2	---
Nickel	ppm	ASTM D5185m	>10	0	0	---
Titanium	ppm	ASTM D5185m		0	0	---
Silver	ppm	ASTM D5185m		0	<1	---
Aluminum	ppm	ASTM D5185m	>10	<1	<1	---
Lead	ppm	ASTM D5185m	>10	0	11	---
Copper	ppm	ASTM D5185m	>75	5	21	---
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

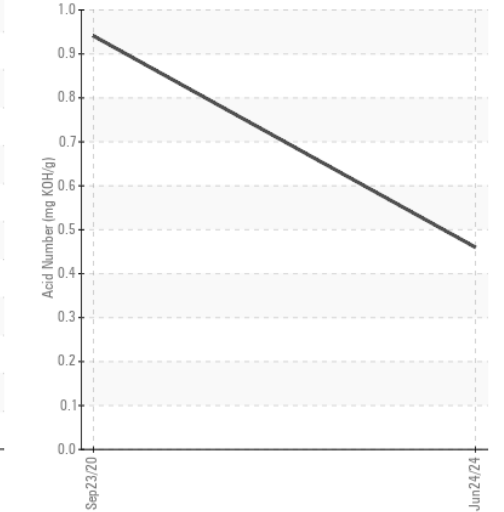
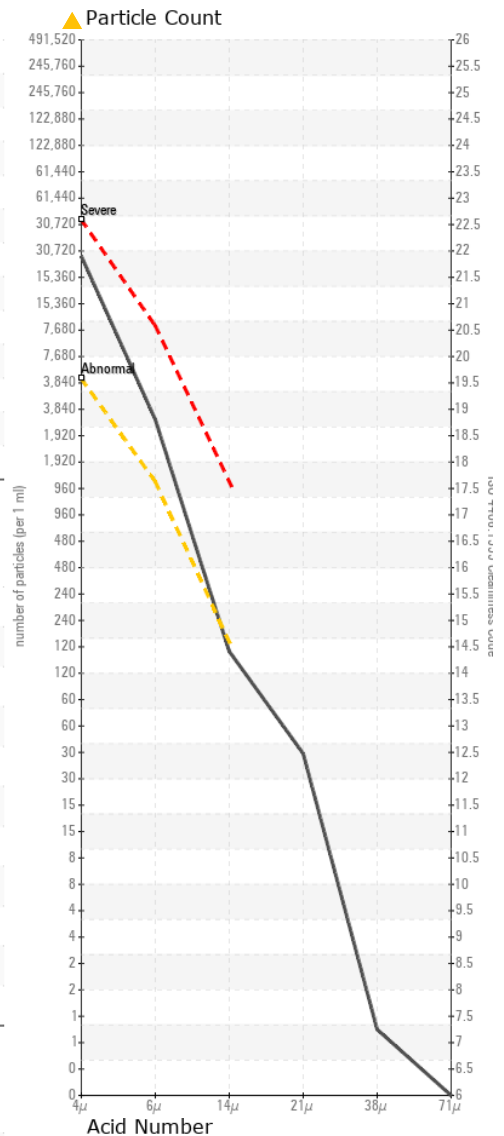
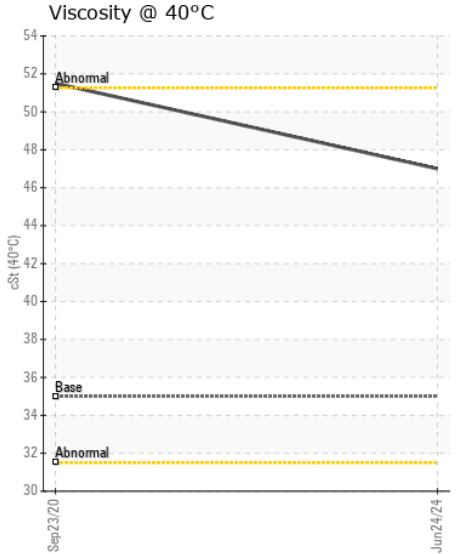
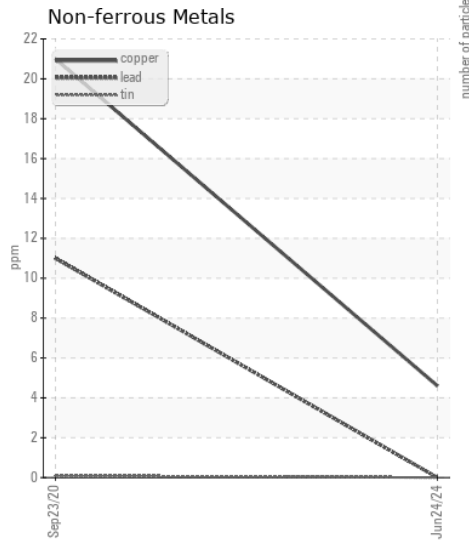
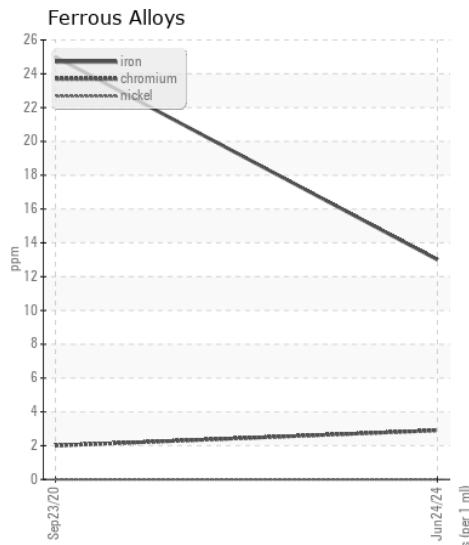
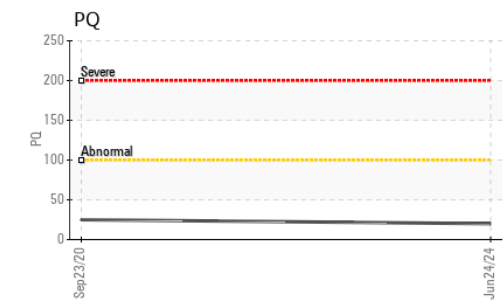
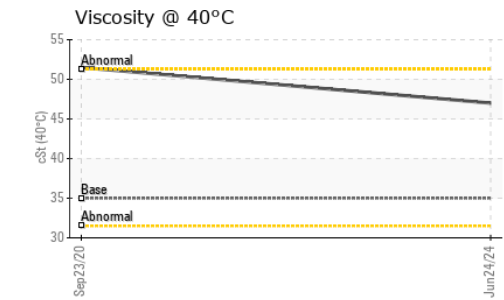
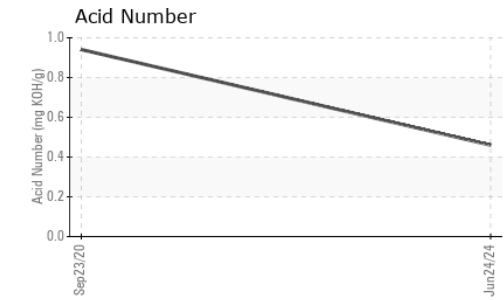
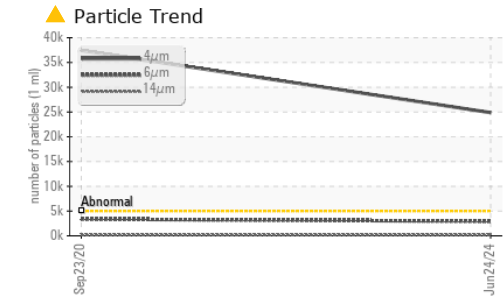
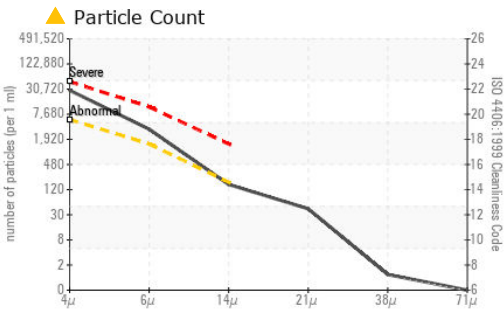
There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>20	2	2	---
Potassium	ppm	ASTM D5185m	>20	<1	2	---
Water		WC Method	>0.1	NEG	NEG	---
Particles >4µm		ASTM D7647	>5000	▲ 24875	▲ 37437	---
Particles >6µm		ASTM D7647	>1300	▲ 2932	▲ 3366	---
Particles >14µm		ASTM D7647	>160	141	126	---
Particles >21µm		ASTM D7647	>40	37	17	---
Particles >38µm		ASTM D7647	>10	1	1	---
Particles >71µm		ASTM D7647	>3	0	0	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 22/19/14	▲ 22/19/14	---
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 oils additive package is suitable for further service.

Sodium	ppm	ASTM D5185m		1	<1	---
Boron	ppm	ASTM D5185m		0	2	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		0	<1	---
Manganese	ppm	ASTM D5185m		<1	<1	---
Magnesium	ppm	ASTM D5185m		6	8	---
Calcium	ppm	ASTM D5185m		255	137	---
Phosphorus	ppm	ASTM D5185m		240	563	---
Zinc	ppm	ASTM D5185m		203	831	---
Sulfur	ppm	ASTM D5185m		1495	1585	---
Acid Number (AN)	mg KOH/g	ASTM D8045		0.46	0.941	---
Visc @ 40°C	cSt	ASTM D445	35.0	47.0	51.5	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : LEC0049258

Lab Number : 06227283

Unique Number : 11110776

Test Package : CONST (Additional Tests: PQ)

Received : 03 Jul 2024

Tested : 08 Jul 2024

Diagnosed : 08 Jul 2024 - Jonathan Hester

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)

LANE PIPELINE

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BRIDGEPORT, WV

US 26330

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