



WEAR	SEVERE
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Area
[W49140]
 Machine Id
JOHN DEERE 331G 1T0331GKELF370893
 Component
Left Final Drive
 Fluid
JOHN DEERE GL-5 80W90 (--- 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. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0200111	---	---
Sample Date		Client Info		15 Jan 2024	---	---
Machine Age	hrs	Client Info		1246	---	---
Oil Age	hrs	Client Info		1246	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		Changed	---	---
Sample Status				SEVERE	---	---

WEAR

Gear wear is indicated.

PQ		ASTM D8184	>1250	7254	---	---
Iron	ppm	ASTM D5185m	>750	14029	---	---
Chromium	ppm	ASTM D5185m	>9	126	---	---
Nickel	ppm	ASTM D5185m	>10	70	---	---
Titanium	ppm	ASTM D5185m		57	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m	>40	367	---	---
Lead	ppm	ASTM D5185m	>15	2	---	---
Copper	ppm	ASTM D5185m	>40	13	---	---
Tin	ppm	ASTM D5185m	>10	0	---	---
Vanadium	ppm	ASTM D5185m		3	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

CONTAMINATION

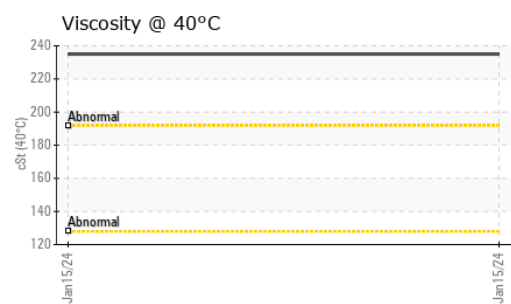
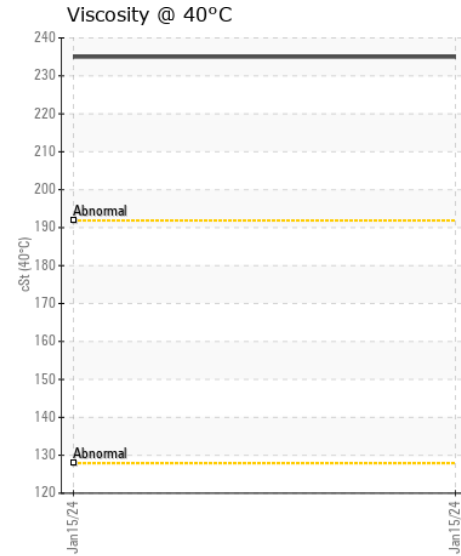
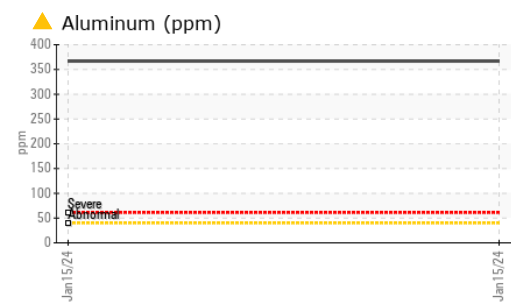
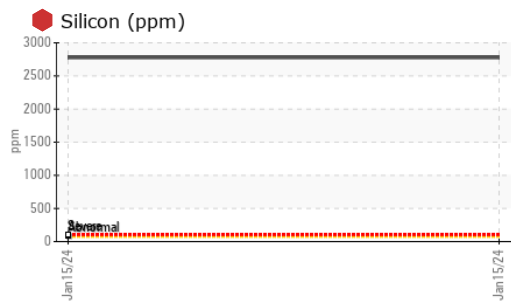
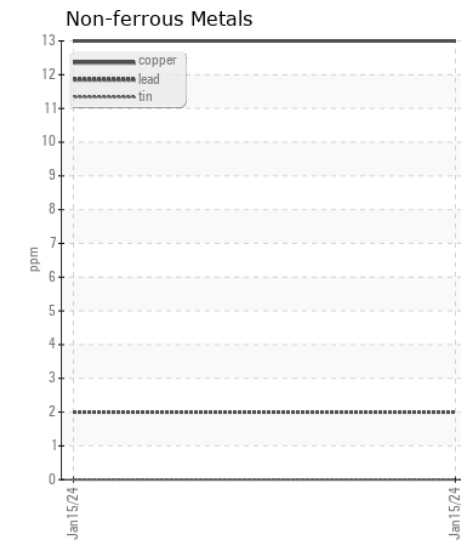
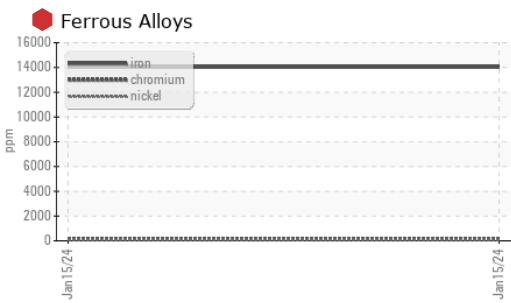
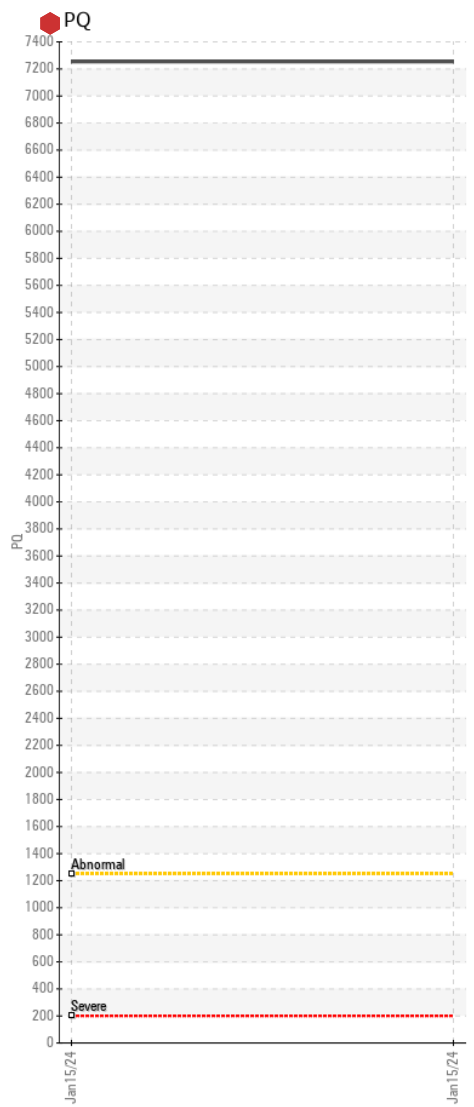
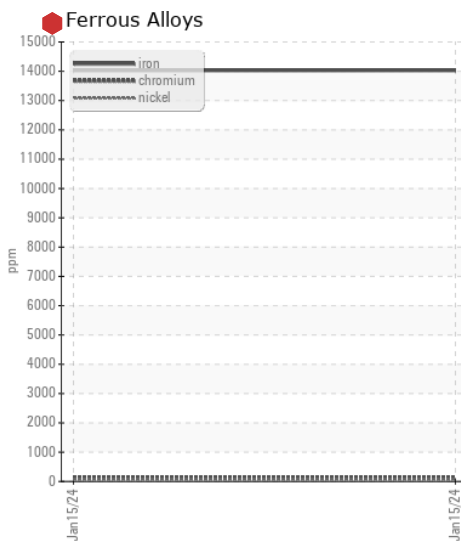
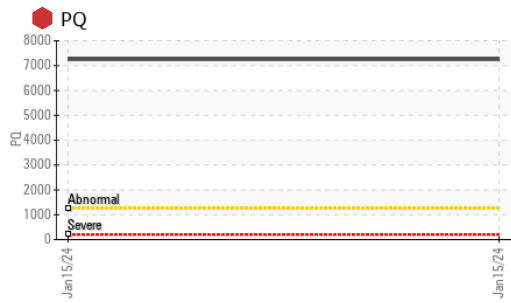
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>75	2777	---	---
Potassium	ppm	ASTM D5185m	>20	103	---	---
Water		WC Method	>0.075	NEG	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.075	NEG	---	---

FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185m	>51	39	---	---
Boron	ppm	ASTM D5185m		104	---	---
Barium	ppm	ASTM D5185m		60	---	---
Molybdenum	ppm	ASTM D5185m		20	---	---
Manganese	ppm	ASTM D5185m		123	---	---
Magnesium	ppm	ASTM D5185m		43	---	---
Calcium	ppm	ASTM D5185m		118	---	---
Phosphorus	ppm	ASTM D5185m		710	---	---
Zinc	ppm	ASTM D5185m		60	---	---
Sulfur	ppm	ASTM D5185m		48121	---	---
Visc @ 40°C	cSt	ASTM D445		235	---	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0200111 **Received** : 17 Jan 2024
Lab Number : 06063091 **Diagnosed** : 18 Jan 2024
Unique Number : 10834473 **Diagnostician** : Sean Felton
Test Package : CONST (Additional Tests: PQ)

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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)