



# OIL ANALYSIS REPORT

WEAR	<b>SEVERE</b>
CONTAMINATION	<b>SEVERE</b>
FLUID CONDITION	<b>NORMAL</b>

Area  
**Store 3 - Norton**  
Machine Id  
**JOHN DEERE 250G EX45 (S/N F610651)**  
Component  
**Left Final Drive**  
Fluid  
**GEAR OIL SAE 90 (--- GAL)**

## RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The oil 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.

## WEAR

Gear wear is indicated.

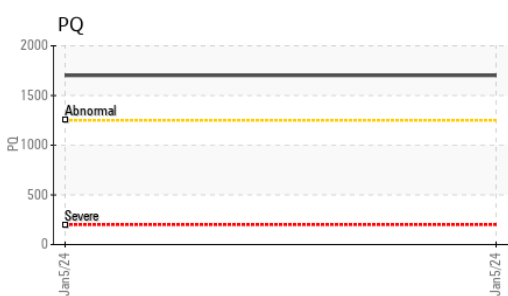
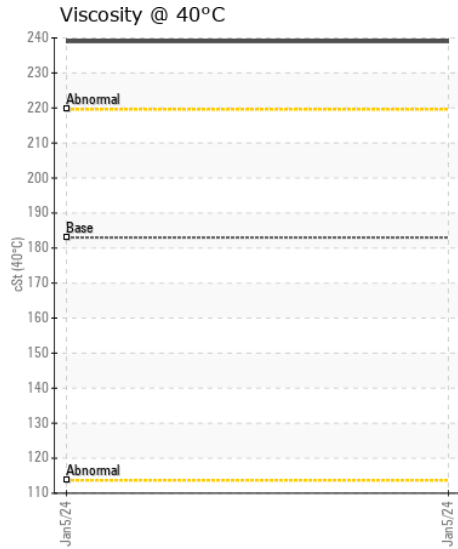
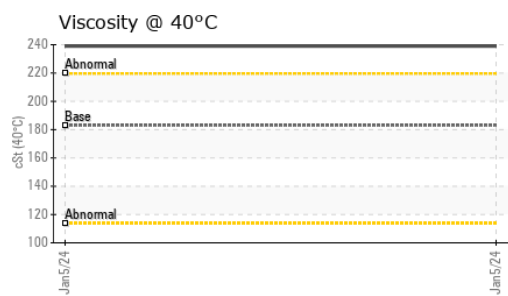
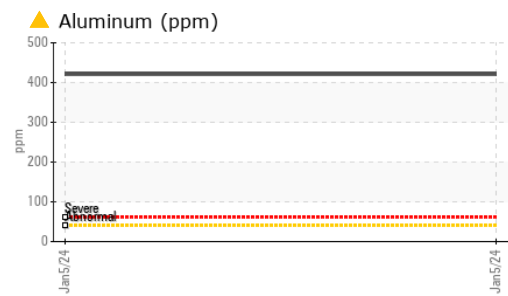
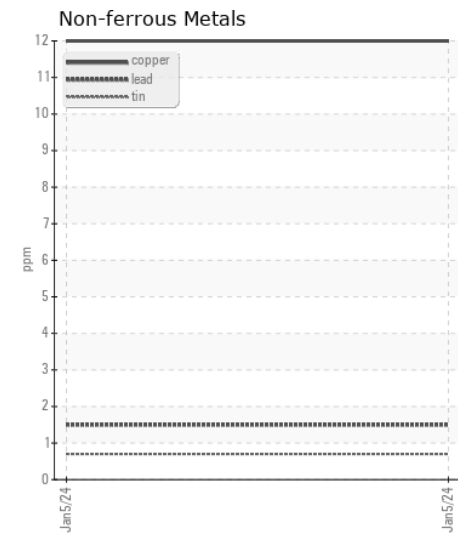
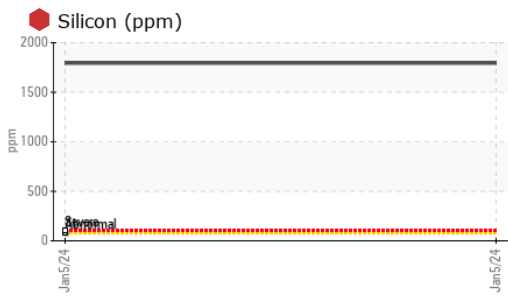
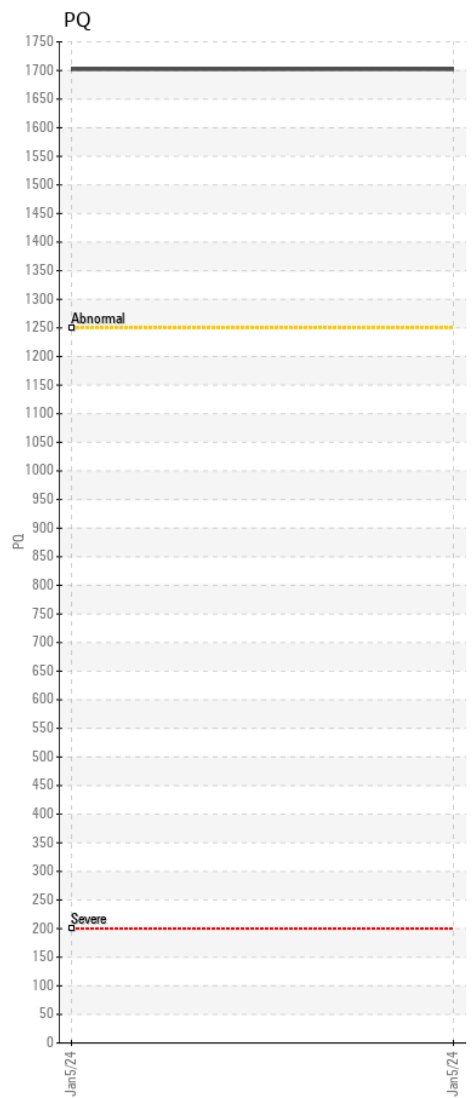
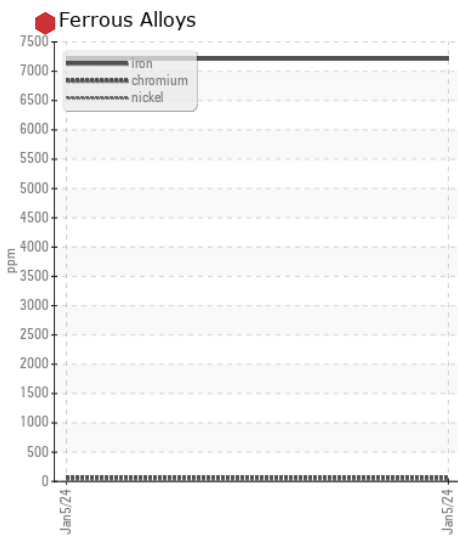
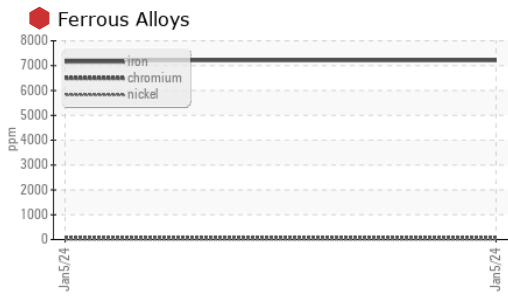
## CONTAMINATION

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

## FLUID CONDITION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0047686	---	---
Sample Date		Client Info		05 Jan 2024	---	---
Machine Age	hrs	Client Info		4605	---	---
Oil Age	hrs	Client Info		1000	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		Changed	---	---
Sample Status				SEVERE	---	---
PQ		ASTM D8184	>1250	1702	---	---
Iron	ppm	ASTM D5185m	>750	7211	---	---
Chromium	ppm	ASTM D5185m	>9	56	---	---
Nickel	ppm	ASTM D5185m	>10	10	---	---
Titanium	ppm	ASTM D5185m		33	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m	>40	421	---	---
Lead	ppm	ASTM D5185m	>15	2	---	---
Copper	ppm	ASTM D5185m	>40	12	---	---
Tin	ppm	ASTM D5185m	>10	<1	---	---
Vanadium	ppm	ASTM D5185m		2	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Silicon	ppm	ASTM D5185m	>75	1794	---	---
Potassium	ppm	ASTM D5185m	>20	113	---	---
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	---	---
Sodium	ppm	ASTM D5185m	>51	21	---	---
Boron	ppm	ASTM D5185m	400	151	---	---
Barium	ppm	ASTM D5185m	200	3	---	---
Molybdenum	ppm	ASTM D5185m	12	6	---	---
Manganese	ppm	ASTM D5185m		54	---	---
Magnesium	ppm	ASTM D5185m	12	44	---	---
Calcium	ppm	ASTM D5185m	150	43	---	---
Phosphorus	ppm	ASTM D5185m	1650	890	---	---
Zinc	ppm	ASTM D5185m	125	17	---	---
Sulfur	ppm	ASTM D5185m	22500	32563	---	---
Visc @ 40°C	cSt	ASTM D445	183	239	---	---



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LEC0047686 **Received** : 17 Jan 2024  
**Lab Number** : 06063855 **Diagnosed** : 20 Jan 2024  
**Unique Number** : 10835237 **Diagnostician** : Don Baldrige  
**Test Package** : CONST ( Additional Tests: PQ )

**LANE PIPELINE**  
 2946 E MAIN ST  
 BRIDGEPORT, WV  
 US 26330  
 Contact: JESSE WILBURN  
 jessewilburn@gmail.com  
 T: (740)440-0927  
 F:

Certificate L2367  
 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)