



OIL ANALYSIS REPORT

WEAR
CONTAMINATION
FLUID CONDITION

ATTENTION
SEVERE
NORMAL



Area
Store 9 - Marietta
Machine Id
JOHN DEERE 850K D3 (S/N 1T0850KXCHF318508)
Component
Rear Right 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 recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0047690	---	---
Sample Date		Client Info		31 Dec 2023	---	---
Machine Age	hrs	Client Info		6242	---	---
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	---	---

WEAR

All component wear rates are normal for time on oil.

PQ		ASTM D8184	>1250	76	---	---
Iron	ppm	ASTM D5185m	>750	1306	---	---
Chromium	ppm	ASTM D5185m	>9	5	---	---
Nickel	ppm	ASTM D5185m	>10	5	---	---
Titanium	ppm	ASTM D5185m		6	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m	>40	▲ 79	---	---
Lead	ppm	ASTM D5185m	>15	<1	---	---
Copper	ppm	ASTM D5185m	>40	2	---	---
Tin	ppm	ASTM D5185m	>10	<1	---	---
Vanadium	ppm	ASTM D5185m		<1	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

CONTAMINATION

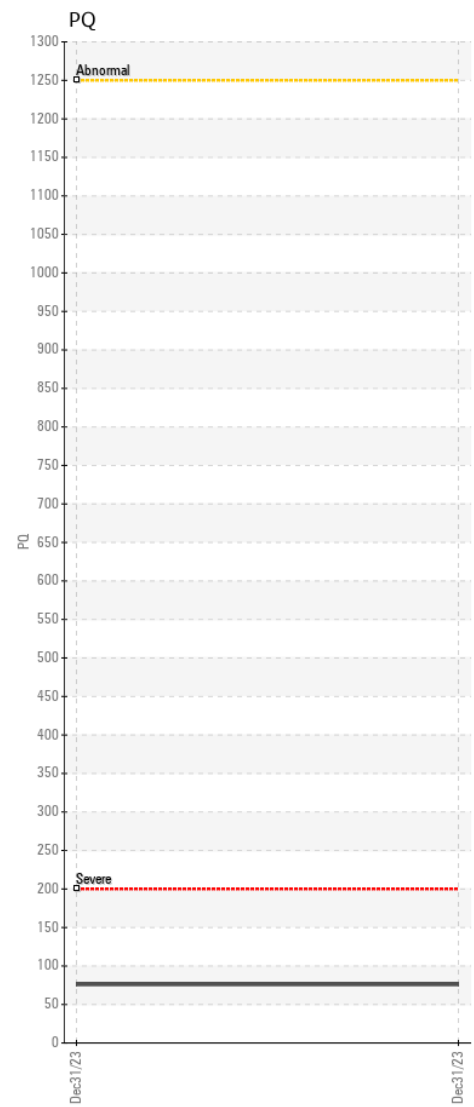
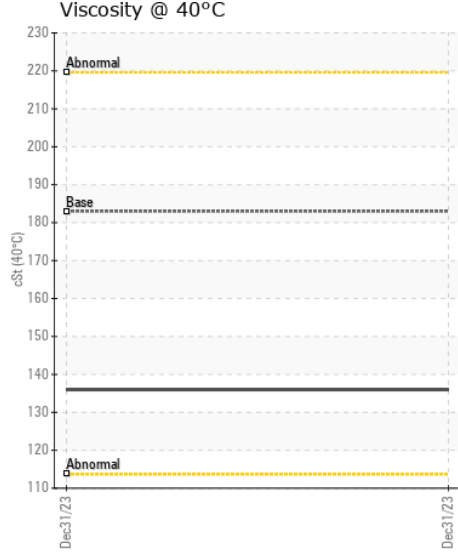
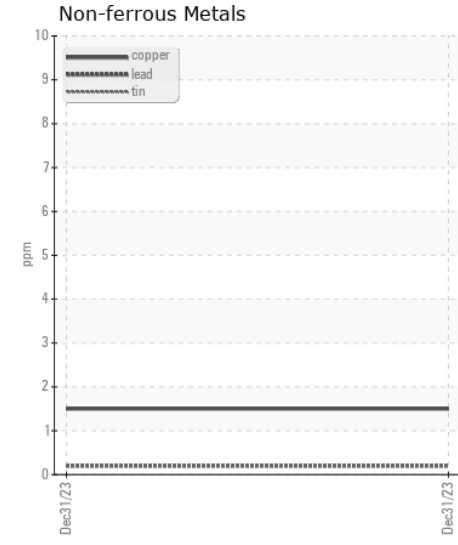
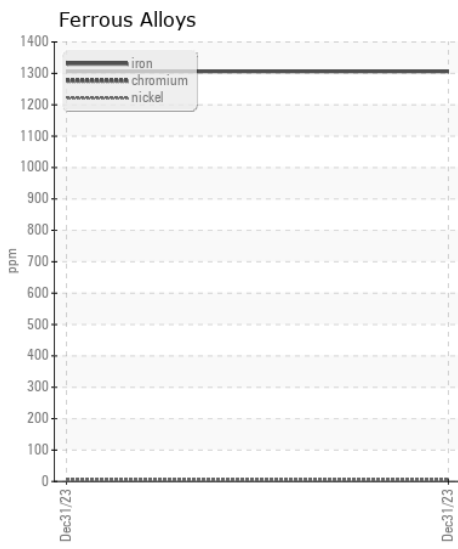
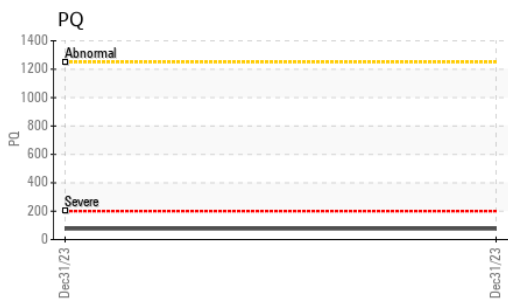
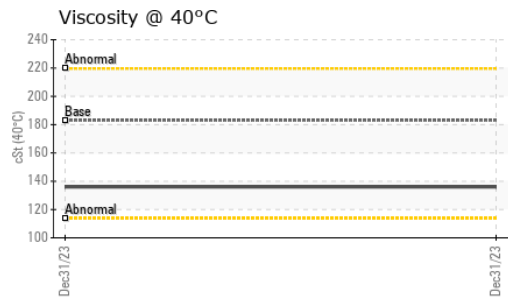
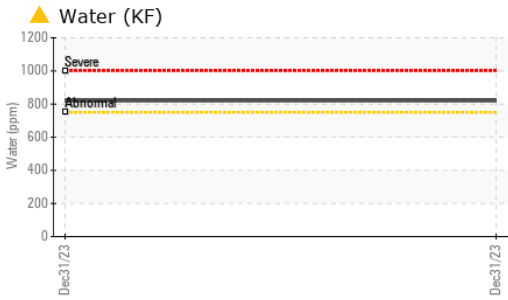
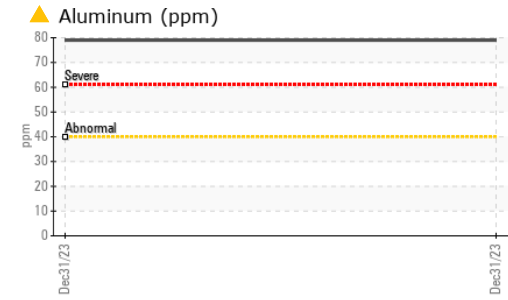
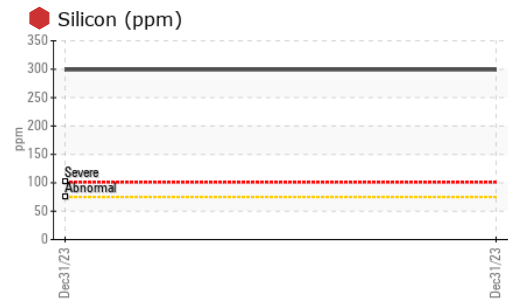
There is a trace of moisture present in the oil. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>75	◆ 299	---	---
Potassium	ppm	ASTM D5185m	>20	21	---	---
Water	%	ASTM D6304	>0.075	▲ 0.082	---	---
ppm Water	ppm	ASTM D6304	>750	▲ 820	---	---
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	0.2%	---	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m	>51	3	---	---
Boron	ppm	ASTM D5185m	400	78	---	---
Barium	ppm	ASTM D5185m	200	0	---	---
Molybdenum	ppm	ASTM D5185m	12	1	---	---
Manganese	ppm	ASTM D5185m		10	---	---
Magnesium	ppm	ASTM D5185m	12	9	---	---
Calcium	ppm	ASTM D5185m	150	35	---	---
Phosphorus	ppm	ASTM D5185m	1650	825	---	---
Zinc	ppm	ASTM D5185m	125	9	---	---
Sulfur	ppm	ASTM D5185m	22500	19324	---	---
Visc @ 40°C	cSt	ASTM D445	183	136	---	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0047690 **Received** : 17 Jan 2024
Lab Number : 06063859 **Diagnosed** : 20 Jan 2024
Unique Number : 10835241 **Diagnostician** : Don Baldrige
Test Package : CONST (Additional Tests: KF, PQ)

LANE PIPELINE
 2946 E MAIN ST
 BRIDGEPORT, WV
 US 26330
 Contact: SCOTT

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)

T: (304)874-2727
 F: