



OIL ANALYSIS REPORT

WEAR	SEVERE
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Area
Store 5 - Cross Lanes [150047]
Machine Id
John Deere 323E 1T0323EBVEJ263385
Component
Right Planetary
Fluid
JOHN DEERE GL-5 80W90 (27 Oz)

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

The iron level is severe. Gear wear is indicated.

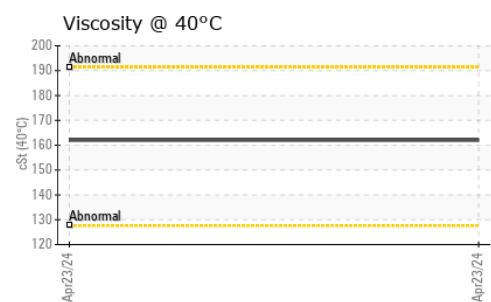
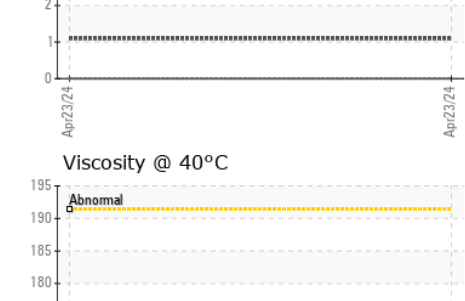
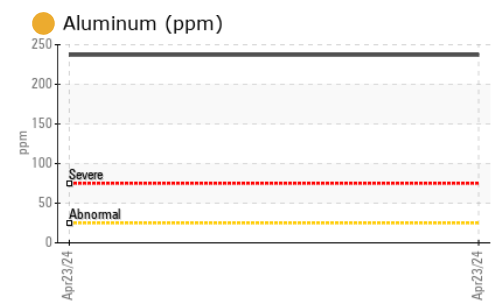
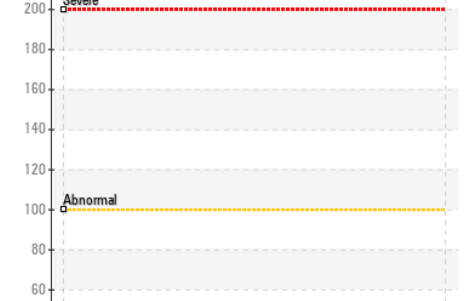
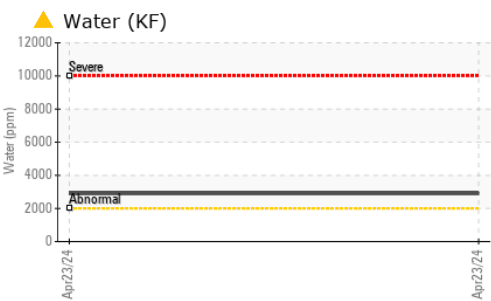
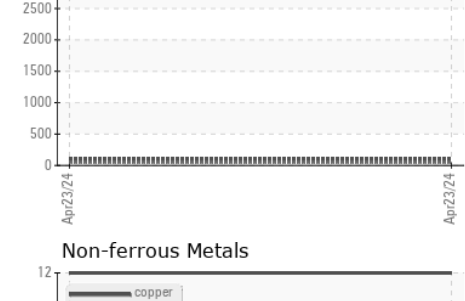
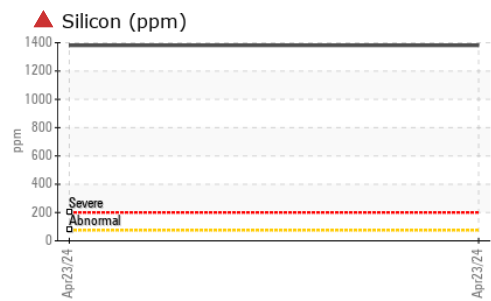
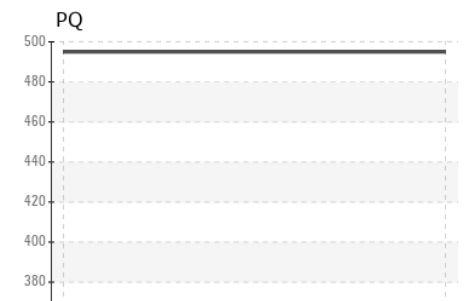
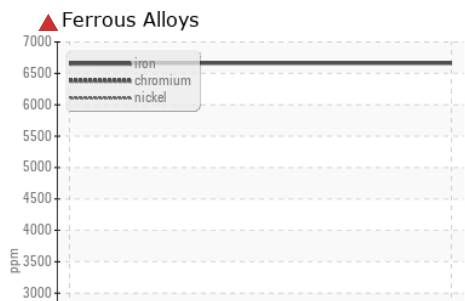
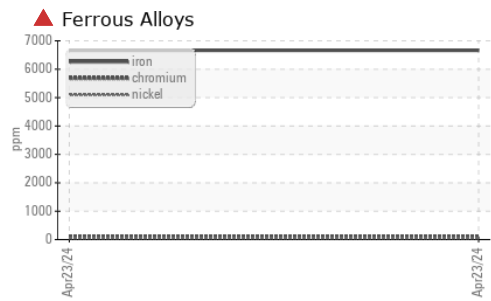
CONTAMINATION

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

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		LEC0047568	---	---
Sample Date		Client Info		23 Apr 2024	---	---
Machine Age	hrs	Client Info		1749	---	---
Oil Age	hrs	Client Info		1749	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		N/A	---	---
Sample Status				SEVERE	---	---
PQ		ASTM D8184		495	---	---
Iron	ppm	ASTM D5185m	>500	▲ 6662	---	---
Chromium	ppm	ASTM D5185m	>10	▲ 91	---	---
Nickel	ppm	ASTM D5185m	>10	▲ 48	---	---
Titanium	ppm	ASTM D5185m		22	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m	>25	● 237	---	---
Lead	ppm	ASTM D5185m	>25	1	---	---
Copper	ppm	ASTM D5185m	>75	12	---	---
Tin	ppm	ASTM D5185m	>10	0	---	---
Vanadium	ppm	ASTM D5185m		5	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Silicon	ppm	ASTM D5185m	>75	▲ 1381	---	---
Potassium	ppm	ASTM D5185m	>20	71	---	---
Water	%	ASTM D6304	>0.2	▲ 0.290	---	---
ppm Water	ppm	ASTM D6304	>2000	▲ 2900	---	---
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	>0.2	▲ 0.2%	---	---
Sodium	ppm	ASTM D5185m		39	---	---
Boron	ppm	ASTM D5185m		128	---	---
Barium	ppm	ASTM D5185m		39	---	---
Molybdenum	ppm	ASTM D5185m		14	---	---
Manganese	ppm	ASTM D5185m		62	---	---
Magnesium	ppm	ASTM D5185m		53	---	---
Calcium	ppm	ASTM D5185m		263	---	---
Phosphorus	ppm	ASTM D5185m		709	---	---
Zinc	ppm	ASTM D5185m		97	---	---
Sulfur	ppm	ASTM D5185m		42884	---	---
Visc @ 40°C	cSt	ASTM D445		162	---	---



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0047568 **Received** : 26 Apr 2024
Lab Number : 06161761 **Tested** : 30 Apr 2024
Unique Number : 10997184 **Diagnosed** : 30 Apr 2024 - Sean Felton
Test Package : CONST (Additional Tests: KF, PQ)

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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)