



OIL ANALYSIS REPORT

WEAR	SEVERE
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL



Machine Id
JOHN DEERE 210G EX-4 (S/N 1FF210GXCF523512)
 Component
Right Final Drive
 Fluid
SAE 90 (2 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.

WEAR

Gear wear is indicated.

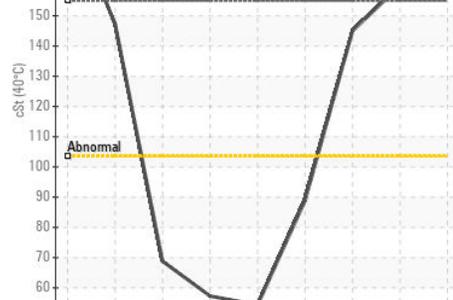
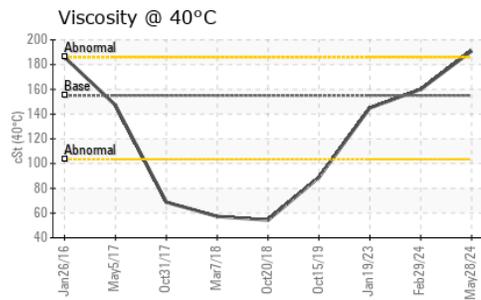
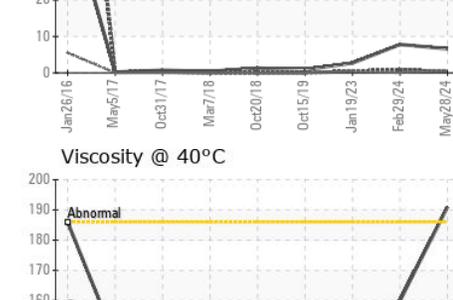
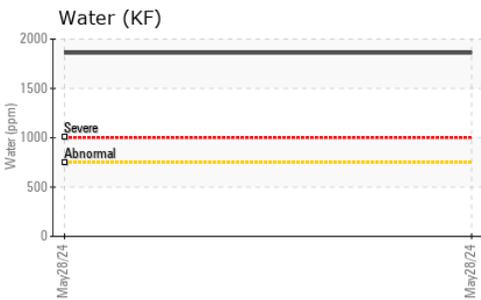
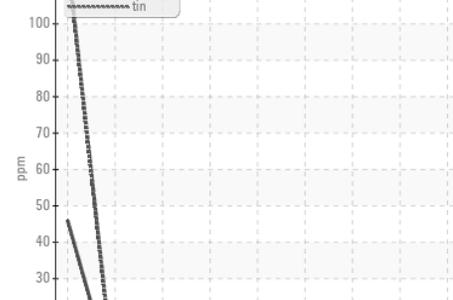
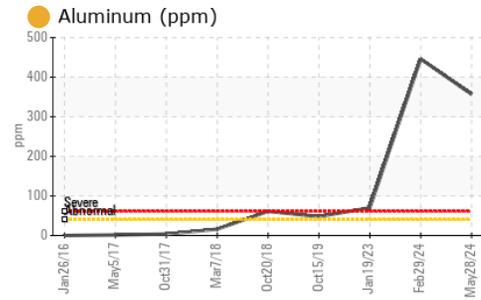
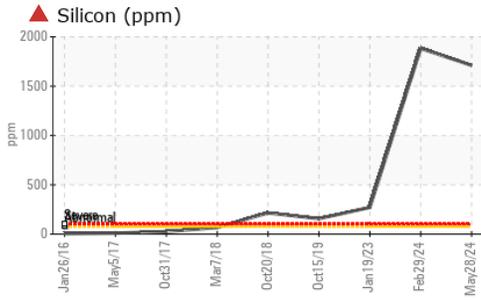
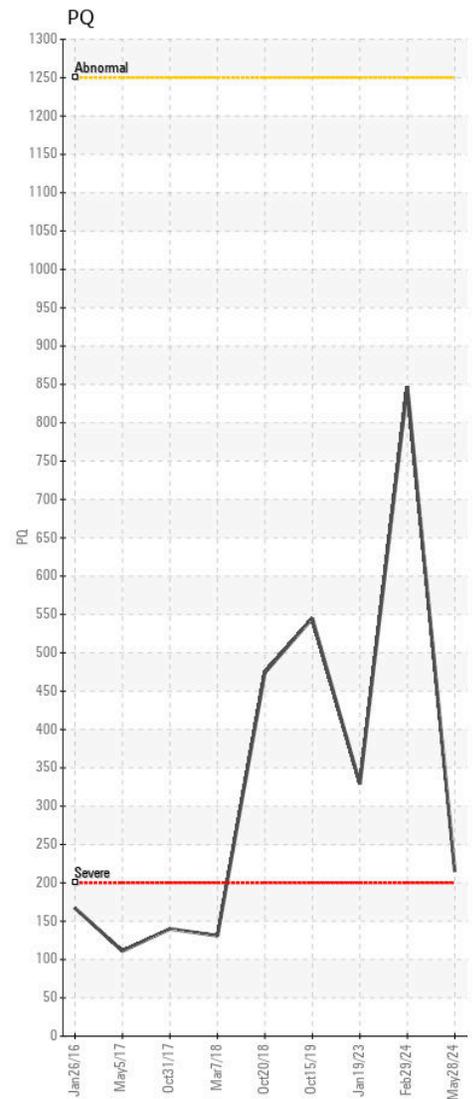
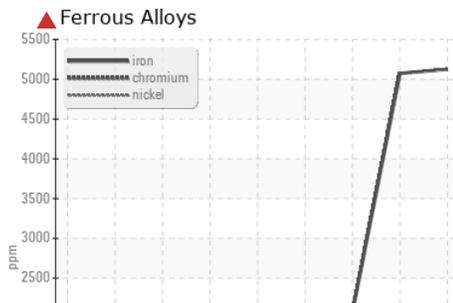
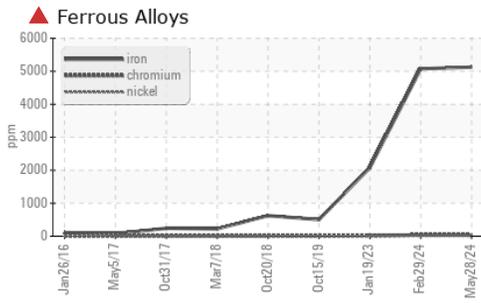
CONTAMINATION

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The water content is negligible.

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		LEC0049022	LEC0047595	LEC0036666
Sample Date		Client Info		28 May 2024	29 Feb 2024	19 Jan 2023
Machine Age	hrs	Client Info		6390	6263	5606
Oil Age	hrs	Client Info		500	500	2586
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Changed
Filter Changed		Client Info		Changed	Changed	N/A
Sample Status				SEVERE	SEVERE	SEVERE
PQ		ASTM D8184	>1250	215	847	329
Iron	ppm	ASTM D5185m	>750	▲ 5125	▲ 5073	2078
Chromium	ppm	ASTM D5185m	>9	▲ 39	▲ 40	16
Nickel	ppm	ASTM D5185m	>10	10	▲ 11	3
Titanium	ppm	ASTM D5185m		29	39	6
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>40	● 357	● 446	● 70
Lead	ppm	ASTM D5185m	>15	<1	<1	<1
Copper	ppm	ASTM D5185m	>40	7	8	3
Tin	ppm	ASTM D5185m	>10	<1	0	<1
Vanadium	ppm	ASTM D5185m		1	2	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>75	▲ 1711	▲ 1883	▲ 270
Potassium	ppm	ASTM D5185m	>20	103	116	18
Water	%	ASTM D6304	>0.075	0.186	---	---
ppm Water	ppm	ASTM D6304	>750	1860	---	---
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.075	0.2%	NEG	NEG
Sodium	ppm	ASTM D5185m	>51	20	22	4
Boron	ppm	ASTM D5185m		189	80	79
Barium	ppm	ASTM D5185m		2	1	3
Molybdenum	ppm	ASTM D5185m		7	5	2
Manganese	ppm	ASTM D5185m		39	44	16
Magnesium	ppm	ASTM D5185m		41	55	7
Calcium	ppm	ASTM D5185m		252	138	28
Phosphorus	ppm	ASTM D5185m		1017	1003	820
Zinc	ppm	ASTM D5185m		5	22	21
Sulfur	ppm	ASTM D5185m		29299	28326	22698
Visc @ 40°C	cSt	ASTM D445	155	191	160	145



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0049022 **Received** : 31 May 2024
Lab Number : 06197021 **Tested** : 04 Jun 2024
Unique Number : 11059144 **Diagnosed** : 04 Jun 2024 - Sean Felton
Test Package : CONST (Additional Tests: KF, PQ)

LANE PIPELINE
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 US 26330
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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)