



WEAR	SEVERE
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL



Machine Id
JOHN DEERE 210G 1FF210GXEJF526708
 Component
Right Final Drive
 Fluid
JOHN DEERE GL-5 80W90 (1 QTS)

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.

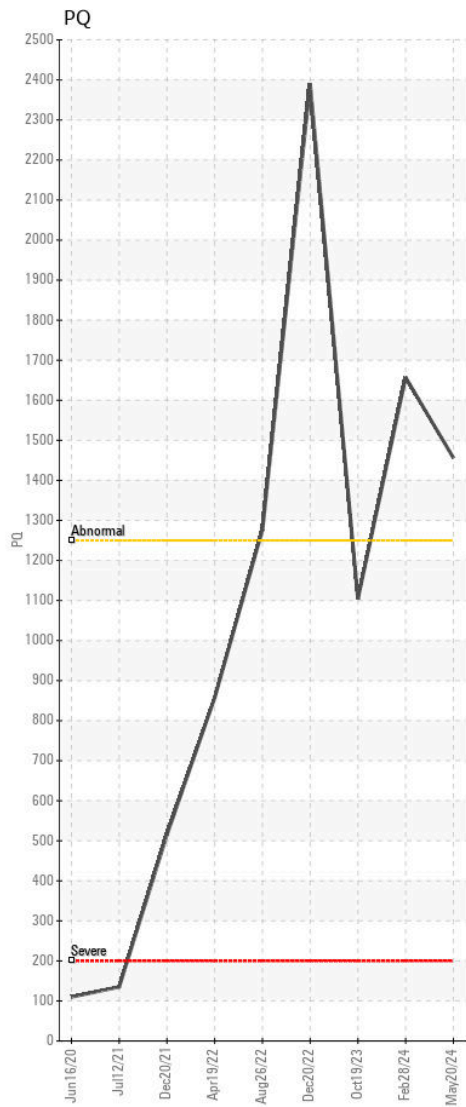
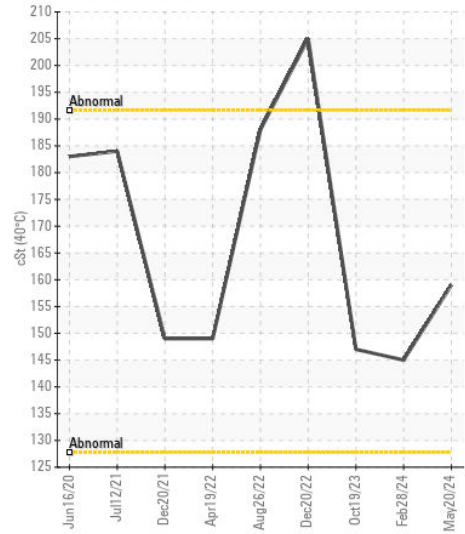
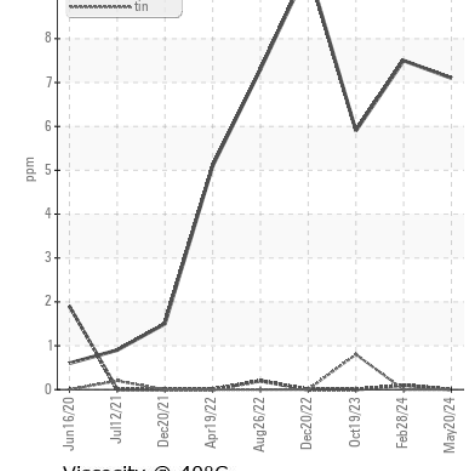
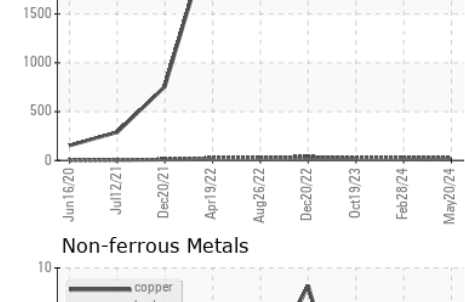
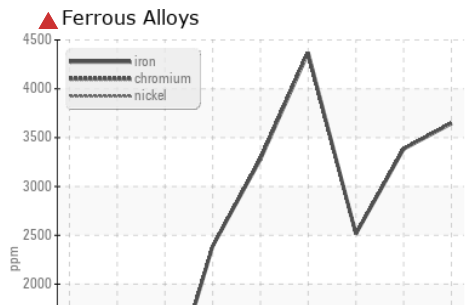
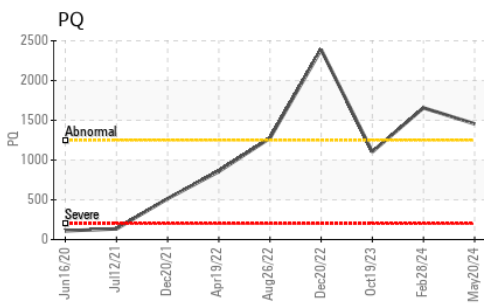
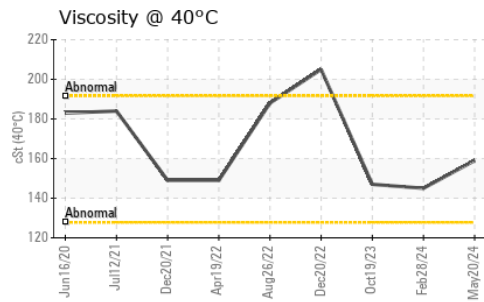
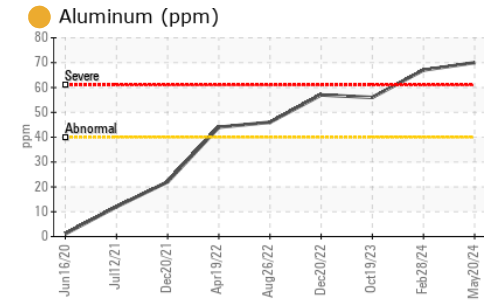
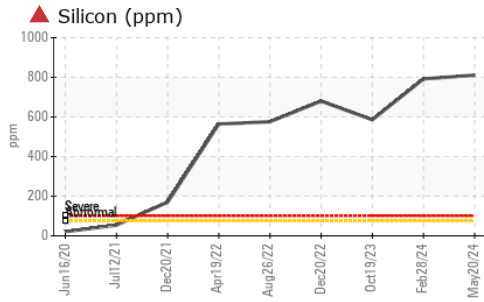
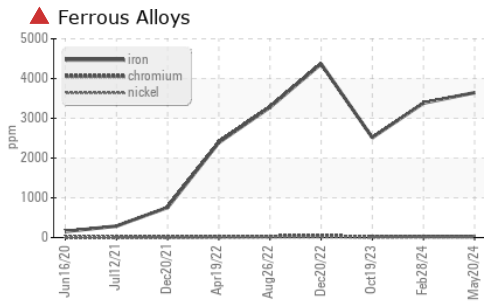
CONTAMINATION

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		JR0208996	JR0200608	JR0186746
Sample Date		Client Info		20 May 2024	28 Feb 2024	19 Oct 2023
Machine Age	hrs	Client Info		4952	4827	4568
Oil Age	hrs	Client Info		4135	4269	558
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	SEVERE	SEVERE
PQ		ASTM D8184	>1250	1456	1657	1104
Iron	ppm	ASTM D5185m	>750	▲ 3645	▲ 3384	▲ 2514
Chromium	ppm	ASTM D5185m	>9	▲ 28	▲ 27	▲ 21
Nickel	ppm	ASTM D5185m	>10	8	8	7
Titanium	ppm	ASTM D5185m		11	11	9
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>40	● 70	● 67	● 56
Lead	ppm	ASTM D5185m	>15	0	<1	0
Copper	ppm	ASTM D5185m	>40	7	8	6
Tin	ppm	ASTM D5185m	>10	0	0	<1
Vanadium	ppm	ASTM D5185m		<1	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>75	▲ 811	▲ 792	▲ 586
Potassium	ppm	ASTM D5185m	>20	12	14	12
Water		WC Method	>0.075	NEG	NEG	NEG
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	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m	>51	2	2	3
Boron	ppm	ASTM D5185m		21	24	21
Barium	ppm	ASTM D5185m		<1	<1	0
Molybdenum	ppm	ASTM D5185m		6	6	4
Manganese	ppm	ASTM D5185m		28	28	21
Magnesium	ppm	ASTM D5185m		18	18	20
Calcium	ppm	ASTM D5185m		60	59	91
Phosphorus	ppm	ASTM D5185m		855	834	755
Zinc	ppm	ASTM D5185m		39	49	55
Sulfur	ppm	ASTM D5185m		23441	20362	18891
Visc @ 40°C	cSt	ASTM D445		159	145	147



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0208996 **Received** : 21 May 2024
Lab Number : 06186489 **Tested** : 22 May 2024
Unique Number : 11043241 **Diagnosed** : 23 May 2024 - Don Baldrige
Test Package : CONST (Additional Tests: PQ)

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 T:
 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)