



Area

[05W46692]

Machine Id

JOHN DEERE 325G 1T0325GKTMJ408392

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

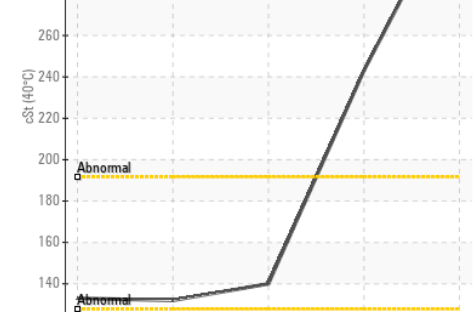
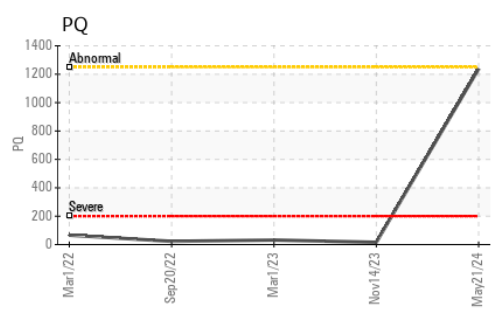
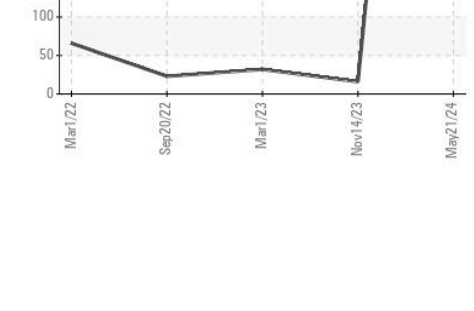
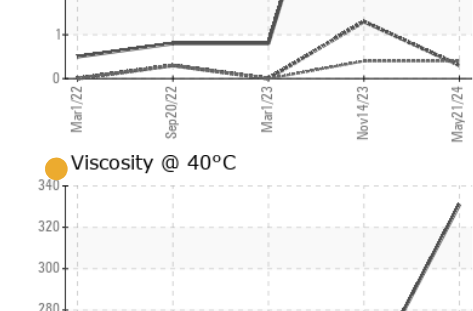
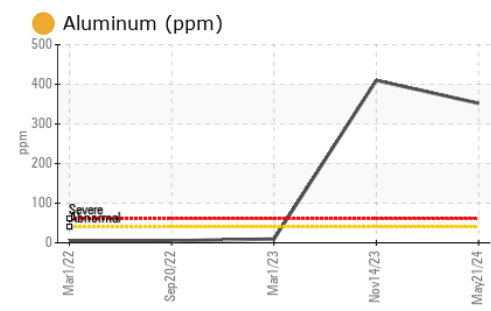
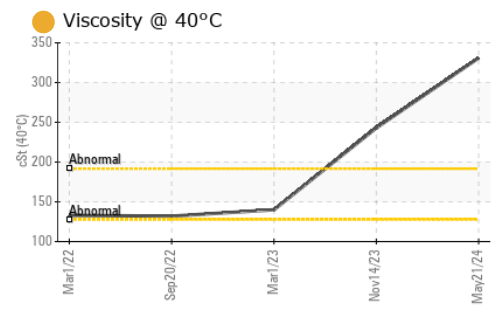
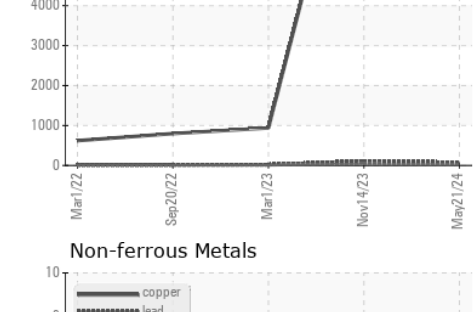
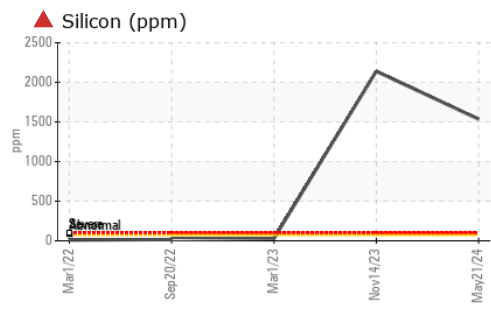
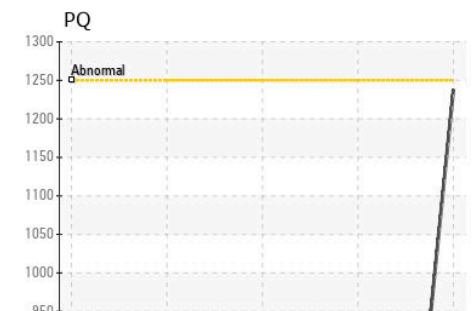
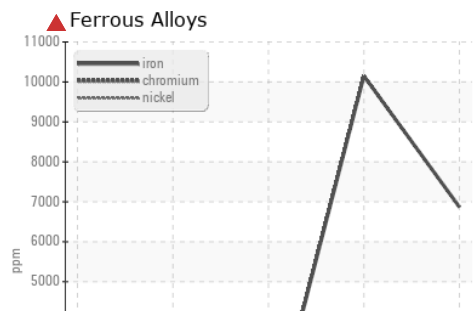
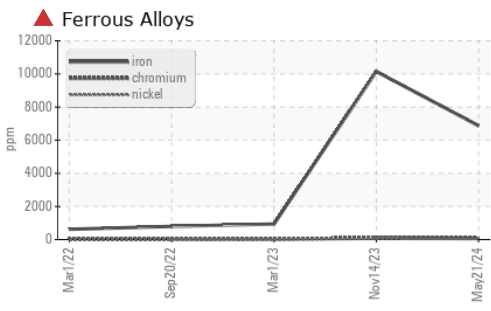
The oil viscosity is higher than normal. The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0217761	JR0192182	JR0162727
Sample Date		Client Info		21 May 2024	14 Nov 2023	01 Mar 2023
Machine Age	hrs	Client Info		2442	1943	1437
Oil Age	hrs	Client Info		499	1000	444
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Not Changd
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	SEVERE	ABNORMAL

PQ		ASTM D8184	>1250	1238	16	32
Iron	ppm	ASTM D5185m	>750	▲ 6870	▲ 10149	▲ 939
Chromium	ppm	ASTM D5185m	>9	▲ 73	▲ 110	▲ 19
Nickel	ppm	ASTM D5185m	>10	▲ 24	▲ 39	2
Titanium	ppm	ASTM D5185m		33	36	1
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>40	● 352	● 410	10
Lead	ppm	ASTM D5185m	>15	<1	1	0
Copper	ppm	ASTM D5185m	>40	6	8	<1
Tin	ppm	ASTM D5185m	>10	<1	<1	0
Vanadium	ppm	ASTM D5185m		2	2	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

Silicon	ppm	ASTM D5185m	>75	▲ 1535	▲ 2139	30
Potassium	ppm	ASTM D5185m	>20	91	147	25
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	57	74	10
Boron	ppm	ASTM D5185m		42	117	103
Barium	ppm	ASTM D5185m		17	70	60
Molybdenum	ppm	ASTM D5185m		12	17	3
Manganese	ppm	ASTM D5185m		52	91	9
Magnesium	ppm	ASTM D5185m		66	83	10
Calcium	ppm	ASTM D5185m		88	108	29
Phosphorus	ppm	ASTM D5185m		535	1383	1449
Zinc	ppm	ASTM D5185m		19	62	53
Sulfur	ppm	ASTM D5185m		23272	33795	25056
Visc @ 40°C	cSt	ASTM D445		● 331	● 243	140



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0217761 **Received** : 22 May 2024
Lab Number : 06188266 **Tested** : 24 May 2024
Unique Number : 11045018 **Diagnosed** : 24 May 2024 - Sean Felton
Test Package : CONST (Additional Tests: 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)