



WEAR	SEVERE
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Area
[W51738]

Machine Id
JOHN DEERE 333G 1T0333GMTRF458058

Component
Right Final Drive

Fluid
JOHN DEERE GL-5 80W90 (--- 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 advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0212179	---	---
Sample Date		Client Info		07 May 2024	---	---
Machine Age	hrs	Client Info		493	---	---
Oil Age	hrs	Client Info		0	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		N/A	---	---
Sample Status				SEVERE	---	---

WEAR

The iron, chrome and nickel levels are severe. Gear wear is indicated. Component wear metal level(s) high for break in.

PQ		ASTM D8184	>1250	4203	---	---
Iron	ppm	ASTM D5185m	>750	▲ 10584	---	---
Chromium	ppm	ASTM D5185m	>9	▲ 135	---	---
Nickel	ppm	ASTM D5185m	>10	▲ 33	---	---
Titanium	ppm	ASTM D5185m		45	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m	>40	● 388	---	---
Lead	ppm	ASTM D5185m	>15	3	---	---
Copper	ppm	ASTM D5185m	>40	16	---	---
Tin	ppm	ASTM D5185m	>10	2	---	---
Vanadium	ppm	ASTM D5185m		2	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

CONTAMINATION

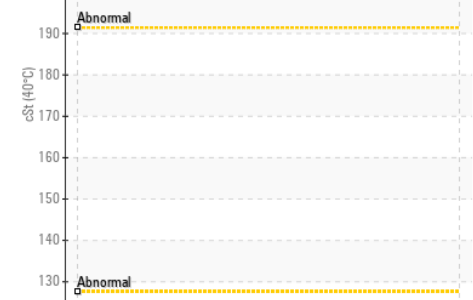
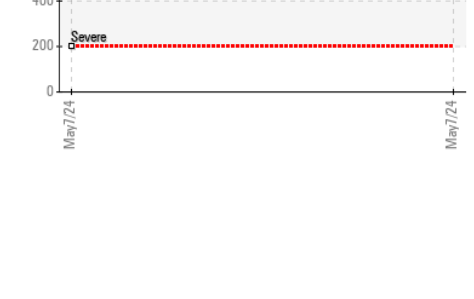
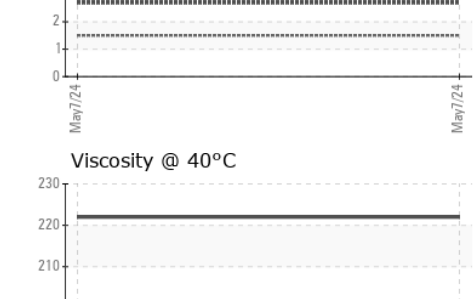
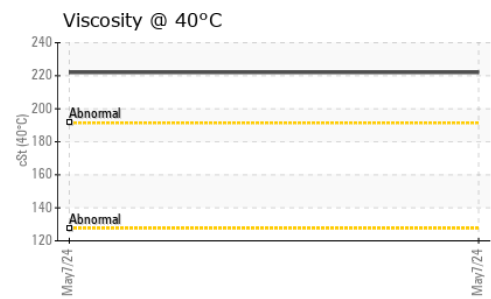
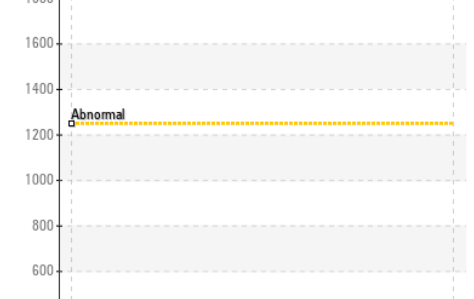
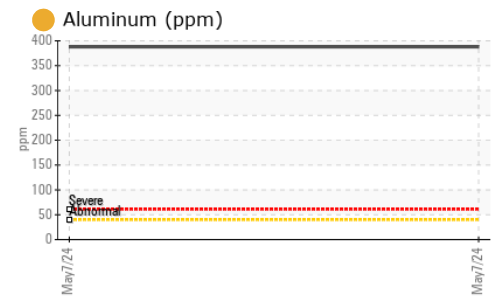
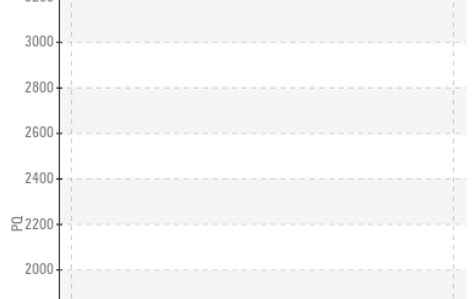
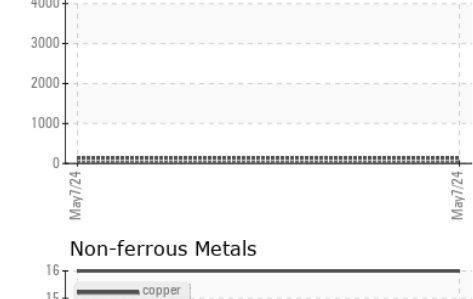
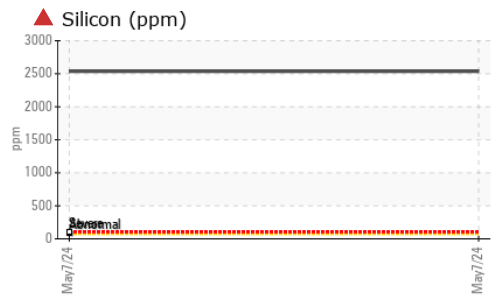
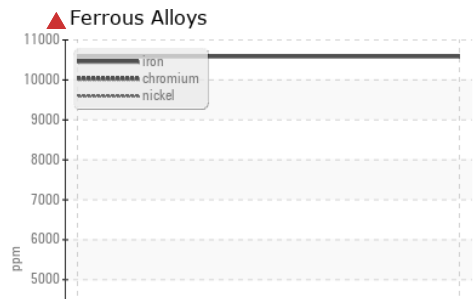
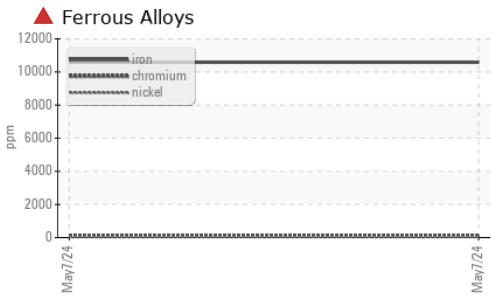
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>75	▲ 2537	---	---
Potassium	ppm	ASTM D5185m	>20	142	---	---
Water		WC Method	>0.075	NEG	---	---
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	NEG	---	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m	>51	57	---	---
Boron	ppm	ASTM D5185m		8	---	---
Barium	ppm	ASTM D5185m		111	---	---
Molybdenum	ppm	ASTM D5185m		12	---	---
Manganese	ppm	ASTM D5185m		115	---	---
Magnesium	ppm	ASTM D5185m		55	---	---
Calcium	ppm	ASTM D5185m		105	---	---
Phosphorus	ppm	ASTM D5185m		277	---	---
Zinc	ppm	ASTM D5185m		27	---	---
Sulfur	ppm	ASTM D5185m		16882	---	---
Visc @ 40°C	cSt	ASTM D445		222	---	---



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0212179 **Received** : 09 May 2024
Lab Number : 06174147 **Tested** : 10 May 2024
Unique Number : 11020200 **Diagnosed** : 12 May 2024 - Don Baldrige
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)