



WEAR	SEVERE
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 331G 1T0331GKCKF347732 (S/N 1T0331GKCKF357732)

Component
Right Final Drive
 Fluid
{not provided} (--- 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. Please specify the brand, type, and viscosity of the oil on your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0210756	---	---
Sample Date		Client Info		08 May 2024	---	---
Machine Age	hrs	Client Info		1911	---	---
Oil Age	hrs	Client Info		310	---	---
Filter Age	hrs	Client Info		310	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		N/A	---	---
Sample Status				SEVERE	---	---

WEAR

Gear wear is indicated.

PQ		ASTM D8184	>1250	277	---	---
Iron	ppm	ASTM D5185m	>750	▲ 2875	---	---
Chromium	ppm	ASTM D5185m	>9	▲ 24	---	---
Nickel	ppm	ASTM D5185m	>10	▲ 15	---	---
Titanium	ppm	ASTM D5185m		6	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m	>40	● 77	---	---
Lead	ppm	ASTM D5185m	>15	<1	---	---
Copper	ppm	ASTM D5185m	>40	4	---	---
Tin	ppm	ASTM D5185m	>10	0	---	---
Vanadium	ppm	ASTM D5185m		1	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

CONTAMINATION

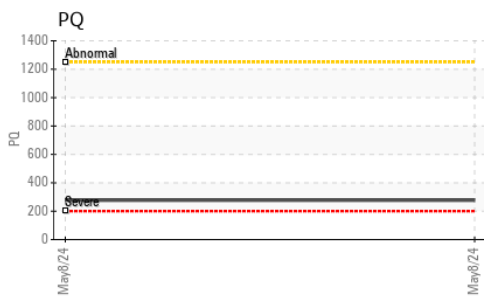
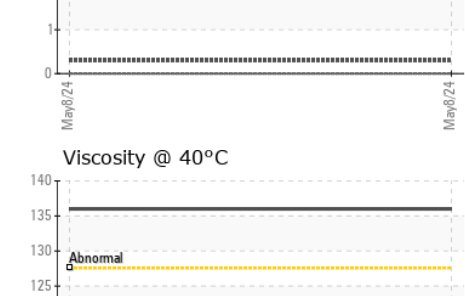
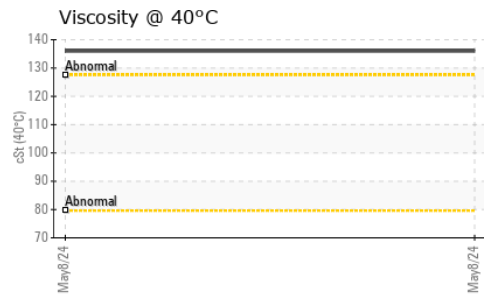
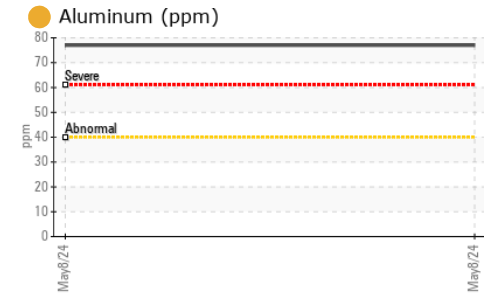
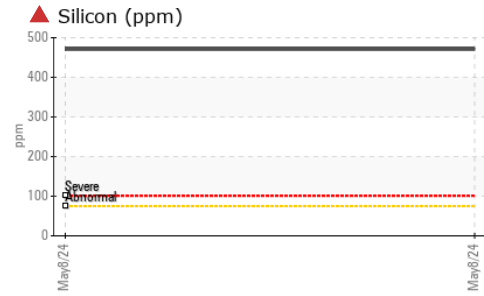
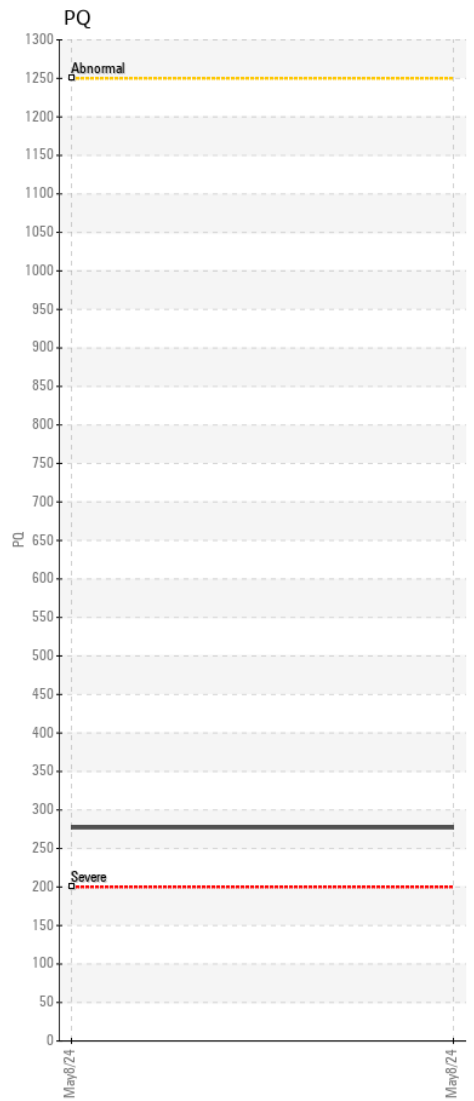
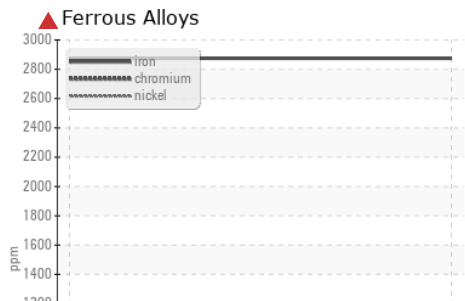
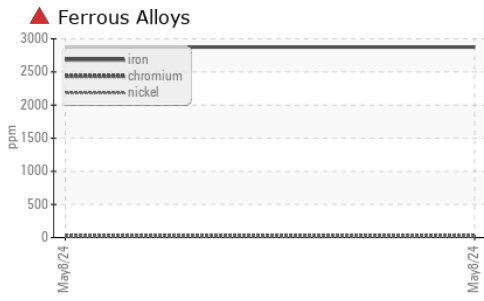
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>75	▲ 471	---	---
Potassium	ppm	ASTM D5185m	>20	23	---	---
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	5	---	---
Boron	ppm	ASTM D5185m		88	---	---
Barium	ppm	ASTM D5185m		2	---	---
Molybdenum	ppm	ASTM D5185m		5	---	---
Manganese	ppm	ASTM D5185m		18	---	---
Magnesium	ppm	ASTM D5185m		11	---	---
Calcium	ppm	ASTM D5185m		42	---	---
Phosphorus	ppm	ASTM D5185m		564	---	---
Zinc	ppm	ASTM D5185m		25	---	---
Sulfur	ppm	ASTM D5185m		20526	---	---
Visc @ 40°C	cSt	ASTM D445		136	---	---



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0210756 **Received** : 10 May 2024
Lab Number : 06175827 **Tested** : 13 May 2024
Unique Number : 11021880 **Diagnosed** : 14 May 2024 - Sean Felton
Test Package : CONST (Additional Tests: PQ)

JRE - STEPHENSON
 245 YARDMASTER COURT
 STEPHENSON, VA
 US 22656-1761
 Contact: COTY MAGAHA
 coty.magaha@jamesriverequipment.com

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) F: (540)869-0549