



Area
[CARABEE]
 Machine Id
JOHN DEERE 225DX C257355 (S/N 1FF225DXTA0501599)
 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		JR0165851	JR0133187	---
Sample Date		Client Info		25 Oct 2023	09 Aug 2022	---
Machine Age	hrs	Client Info		8125	7809	---
Oil Age	hrs	Client Info		0	7809	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				SEVERE	SEVERE	---

WEAR

Gear wear is indicated.

PQ		ASTM D8184	>1250	1511	924	---
Iron	ppm	ASTM D5185m	>750	3306	1173	---
Chromium	ppm	ASTM D5185m	>9	25	9	---
Nickel	ppm	ASTM D5185m	>10	4	3	---
Titanium	ppm	ASTM D5185m		13	4	---
Silver	ppm	ASTM D5185m		0	<1	---
Aluminum	ppm	ASTM D5185m	>40	135	54	---
Lead	ppm	ASTM D5185m	>15	0	<1	---
Copper	ppm	ASTM D5185m	>40	6	2	---
Tin	ppm	ASTM D5185m	>10	<1	<1	---
Vanadium	ppm	ASTM D5185m		<1	<1	---
White Metal	scalar	*Visual	NONE	NONE	MODER	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

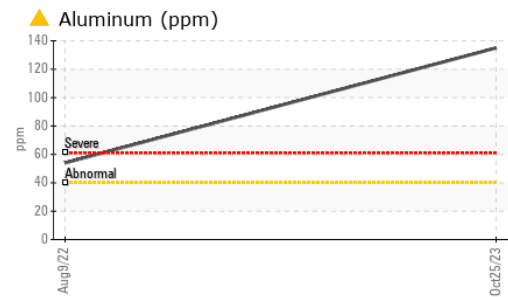
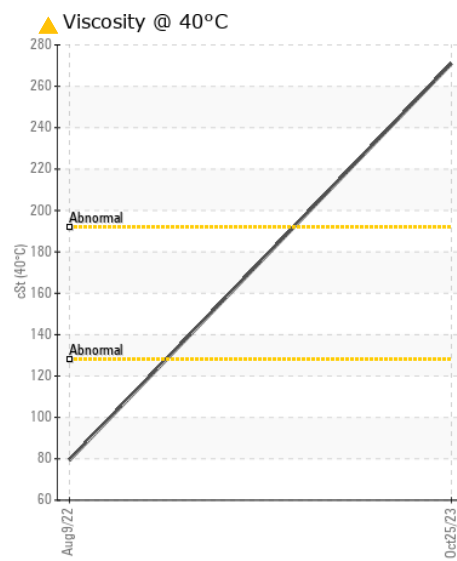
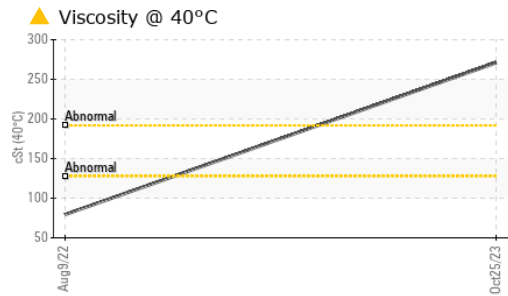
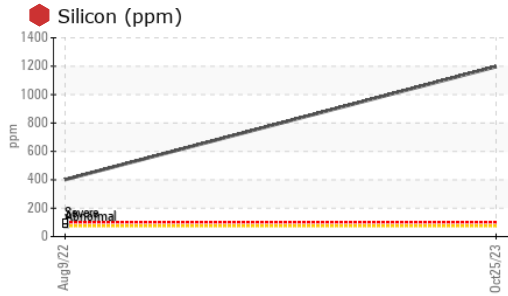
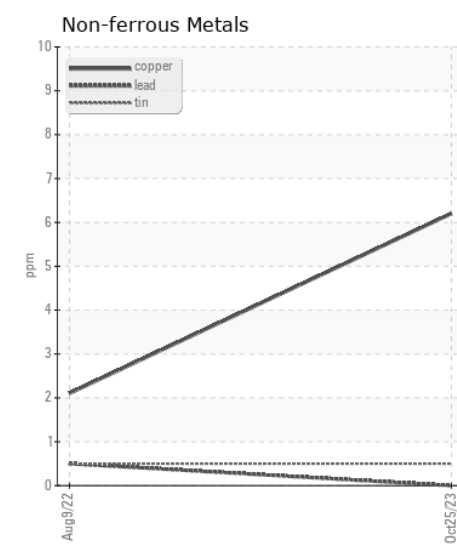
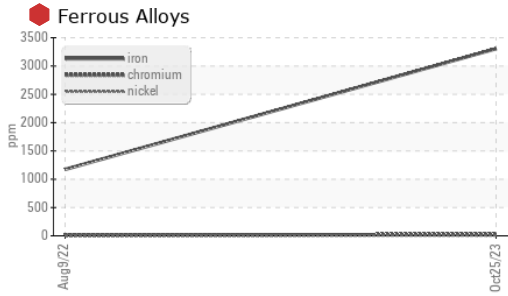
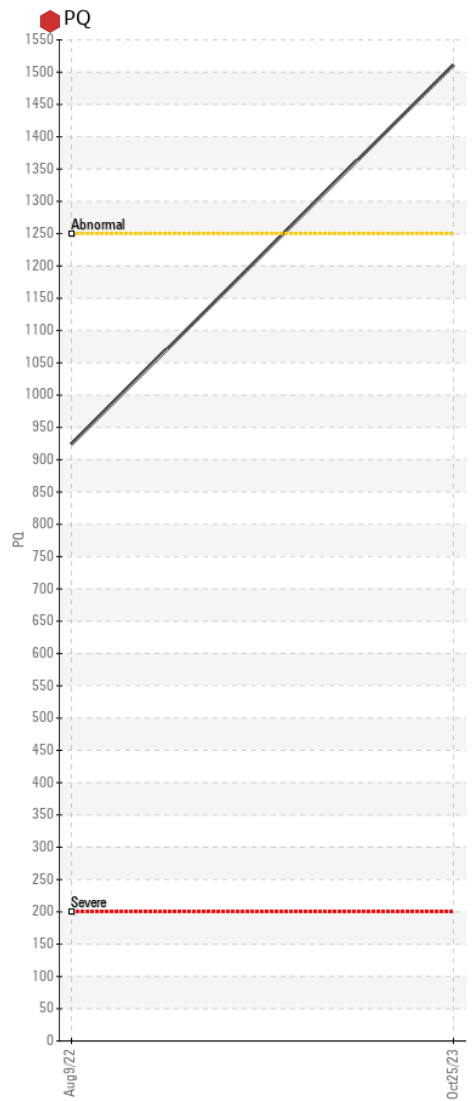
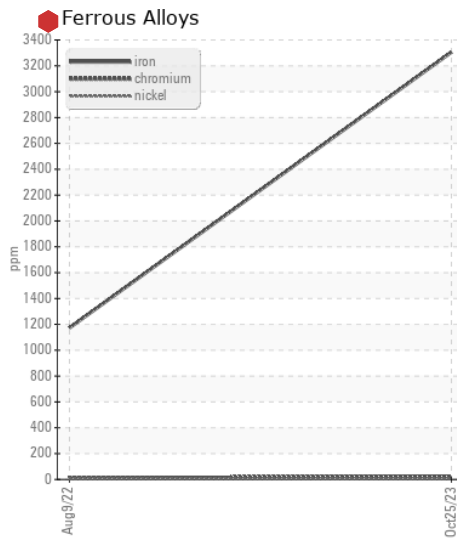
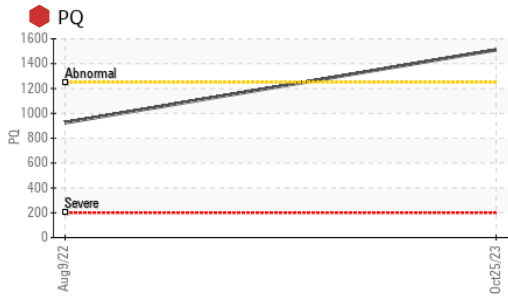
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>75	1197	401	---
Potassium	ppm	ASTM D5185m	>20	37	14	---
Water		WC Method	>0.075	NEG	NEG	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.075	NEG	NEG	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m	>51	26	8	---
Boron	ppm	ASTM D5185m		10	15	---
Barium	ppm	ASTM D5185m		1	0	---
Molybdenum	ppm	ASTM D5185m		1	1	---
Manganese	ppm	ASTM D5185m		24	9	---
Magnesium	ppm	ASTM D5185m		12	10	---
Calcium	ppm	ASTM D5185m		158	325	---
Phosphorus	ppm	ASTM D5185m		1458	511	---
Zinc	ppm	ASTM D5185m		63	152	---
Sulfur	ppm	ASTM D5185m		18865	10926	---
Visc @ 40°C	cSt	ASTM D445		271	79.4	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0165851 **Received** : 12 Jan 2024
Lab Number : 06059531 **Diagnosed** : 16 Jan 2024
Unique Number : 10830913 **Diagnostician** : Jonathan Hester
Test Package : CONST (Additional Tests: PQ)

JRE - ELIZABETH CITY
 129 KNOBBS CREEK DR
 ELIZABETH CITY, NC
 US 27909
 Contact: CHARLES PARKER
 charles.parker@jamesriverequipment.com
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 F:

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)