



Machine Id
JOHN DEERE 200C FF200CX508161
Component
Swing Drive
Fluid
GEAR OIL SAE 90 (--- GAL)

RECOMMENDATION

We advise that you check for the source of water entry. 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.

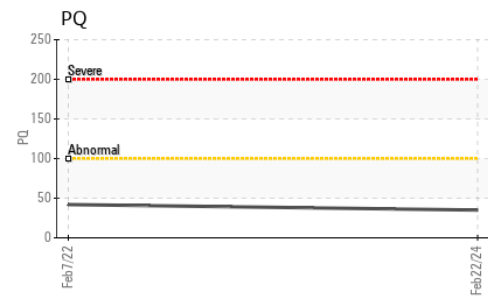
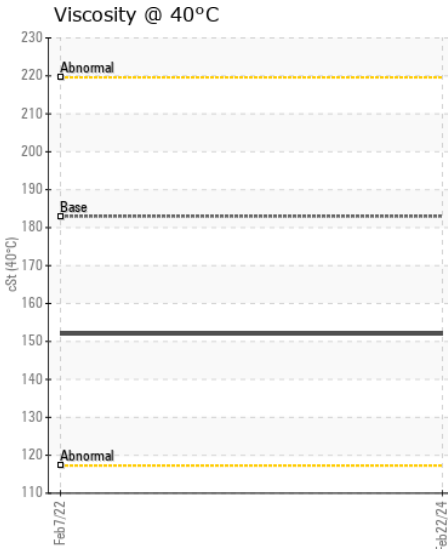
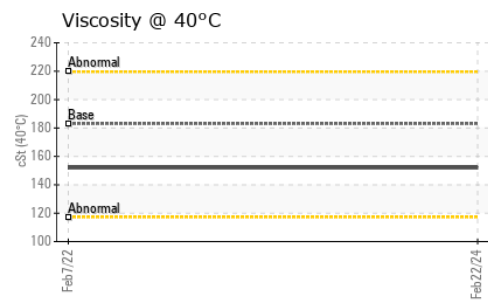
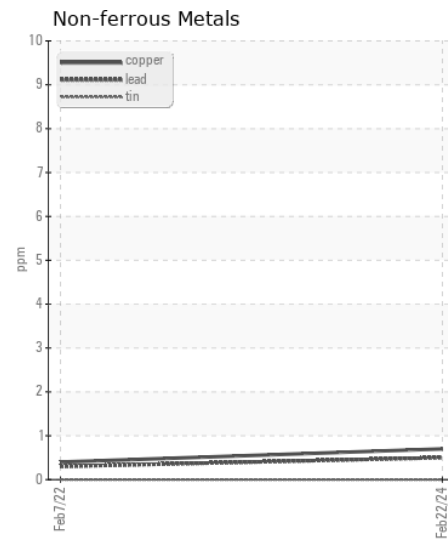
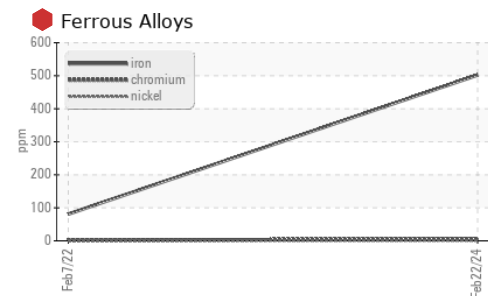
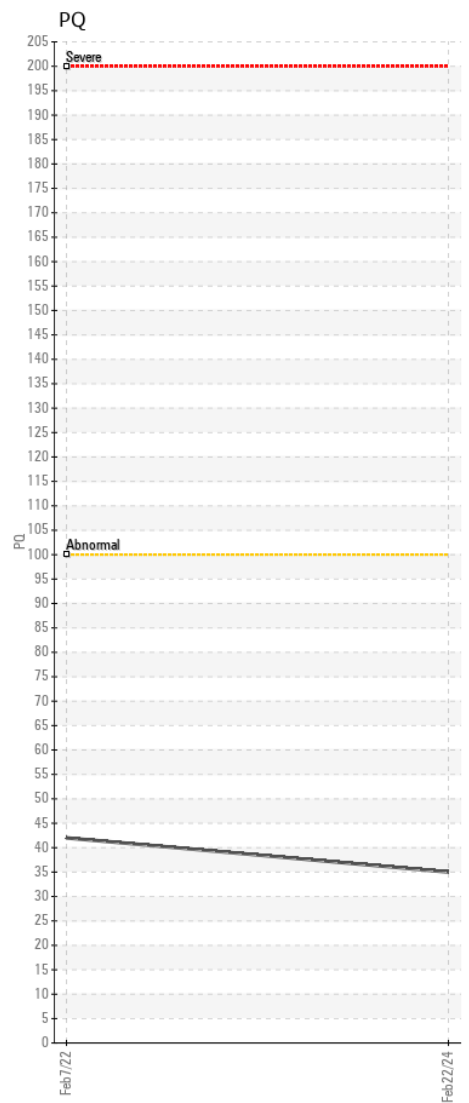
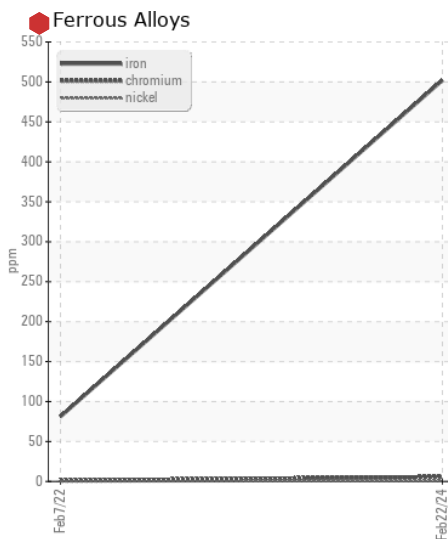
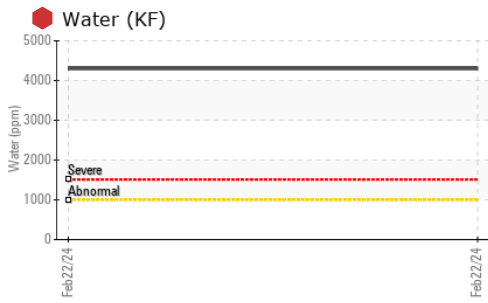
CONTAMINATION

There is a high concentration of water present in the oil.

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		JR0200819	JR0118160	---
Sample Date		Client Info		22 Feb 2024	07 Feb 2022	---
Machine Age	hrs	Client Info		6680	6576	---
Oil Age	hrs	Client Info		6680	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	N/A	---
Filter Changed		Client Info		N/A	Changed	---
Sample Status				SEVERE	NORMAL	---
PQ		ASTM D8184		35	42	---
Iron	ppm	ASTM D5185m	>151	502	81	---
Chromium	ppm	ASTM D5185m	>11	6	1	---
Nickel	ppm	ASTM D5185m	>10	<1	0	---
Titanium	ppm	ASTM D5185m		0	<1	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>21	2	0	---
Lead	ppm	ASTM D5185m	>51	<1	<1	---
Copper	ppm	ASTM D5185m	>51	<1	<1	---
Tin	ppm	ASTM D5185m	>10	0	0	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185m	>31	21	11	---
Potassium	ppm	ASTM D5185m	>20	11	1	---
Water	%	ASTM D6304	>0.1	0.430	---	---
ppm Water	ppm	ASTM D6304	>1000	4300	---	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	LIGHT	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.1	0.2%	NEG	---
Sodium	ppm	ASTM D5185m	>51	2	0	---
Boron	ppm	ASTM D5185m	400	26	28	---
Barium	ppm	ASTM D5185m	200	0	0	---
Molybdenum	ppm	ASTM D5185m	12	1	<1	---
Manganese	ppm	ASTM D5185m		7	2	---
Magnesium	ppm	ASTM D5185m	12	0	3	---
Calcium	ppm	ASTM D5185m	150	44	120	---
Phosphorus	ppm	ASTM D5185m	1650	2102	1794	---
Zinc	ppm	ASTM D5185m	125	0	30	---
Sulfur	ppm	ASTM D5185m	22500	31902	19249	---
Visc @ 40°C	cSt	ASTM D445	183	152	152	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : JR0200819

Lab Number : 06099391

Unique Number : 10897621

Test Package : CONST (Additional Tests: KF, PQ)

Received : 23 Feb 2024

Tested : 26 Feb 2024

Diagnosed : 27 Feb 2024 - Don Baldrige

JRE - GREENVILLE

3604 HIGHWAY 264 E

GREENVILLE, NC

US 27834-5800

Contact: GREENVILLE SHOP

christopher.martin@jamesriverequipment.com

T:

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)