



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

[W65102]

Machine Id

A30G753470

Component

Middle Differential

Fluid

JOHN DEERE HY-GARD HYDRAULIC/RANSMISSION (5)

RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. (Customer Sample Comment: W65102)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0205707	JR0188700	---
Sample Date		Client Info		19 Mar 2024	13 Oct 2023	---
Machine Age	hrs	Client Info		1095	593	---
Oil Age	hrs	Client Info		1095	593	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Not Changed	---
Filter Changed		Client Info		Not Changed	Not Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

Metal levels are typical for a new component breaking in.

PQ		ASTM D8184		253	12	---
Iron	ppm	ASTM D5185m	>500	239	<1	---
Chromium	ppm	ASTM D5185m	>10	4	<1	---
Nickel	ppm	ASTM D5185m	>10	2	0	---
Titanium	ppm	ASTM D5185m		0	<1	---
Silver	ppm	ASTM D5185m		0	<1	---
Aluminum	ppm	ASTM D5185m	>25	0	2	---
Lead	ppm	ASTM D5185m	>25	0	0	---
Copper	ppm	ASTM D5185m	>100	27	<1	---
Tin	ppm	ASTM D5185m	>10	<1	0	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

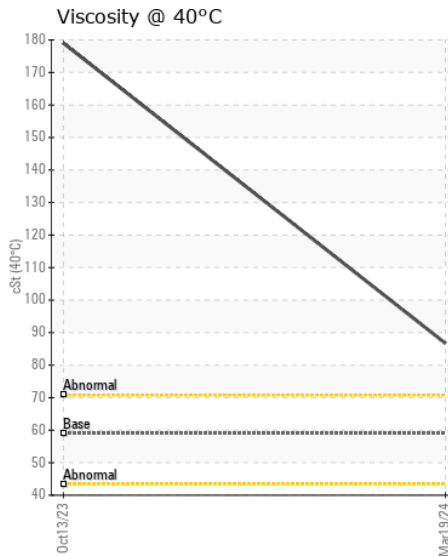
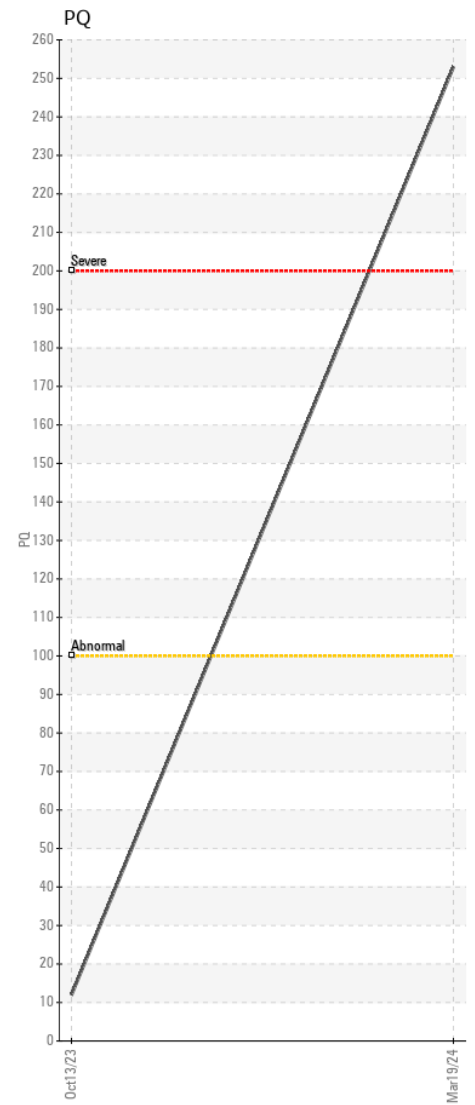
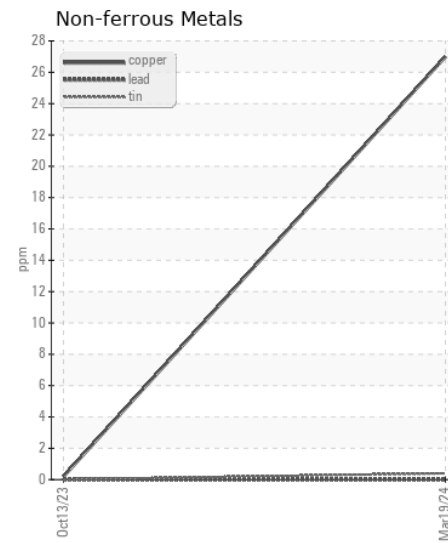
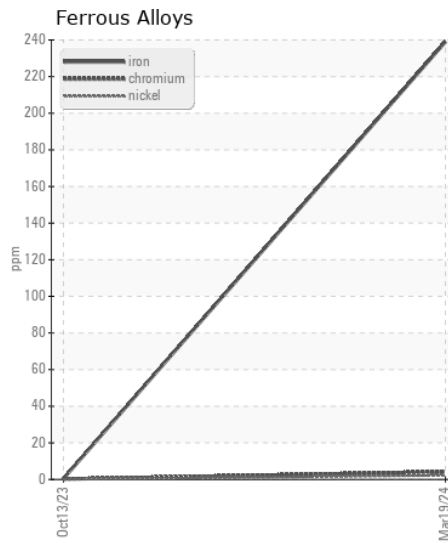
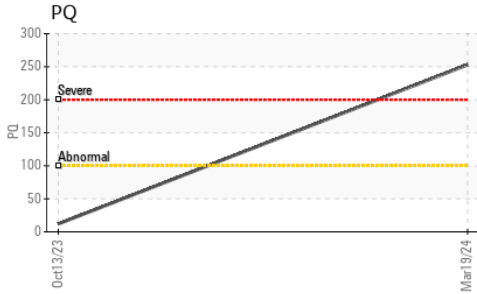
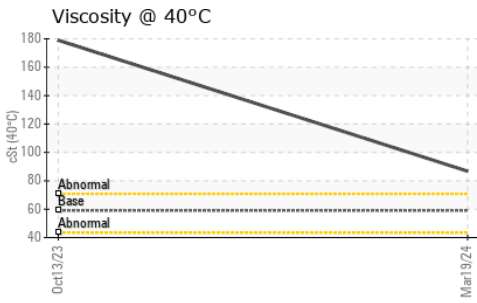
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	4	<1	---
Potassium	ppm	ASTM D5185m	>20	3	2	---
Water		WC Method	>.2	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	>.2	NEG	NEG	---

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		1	0	---
Boron	ppm	ASTM D5185m		231	0	---
Barium	ppm	ASTM D5185m		5	<1	---
Molybdenum	ppm	ASTM D5185m		6	<1	---
Manganese	ppm	ASTM D5185m		9	0	---
Magnesium	ppm	ASTM D5185m		2	2	---
Calcium	ppm	ASTM D5185m		885	5	---
Phosphorus	ppm	ASTM D5185m		1344	843	---
Zinc	ppm	ASTM D5185m		361	<1	---
Sulfur	ppm	ASTM D5185m		22267	24848	---
Visc @ 40°C	cSt	ASTM D445	59	86.7	179	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0205707 **Received** : 20 Mar 2024
Lab Number : 06123905 **Tested** : 21 Mar 2024
Unique Number : 10938056 **Diagnosed** : 22 Mar 2024 - Don Baldrige
Test Package : CONST (Additional Tests: PQ)

JRE - CHARLOTTE
 9550 STATESVILLE ROAD
 CHARLOTTE, NC
 US 28269

Contact: CHARLOTTE SHOP
 myoung@jamesriverequipment.com

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)

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