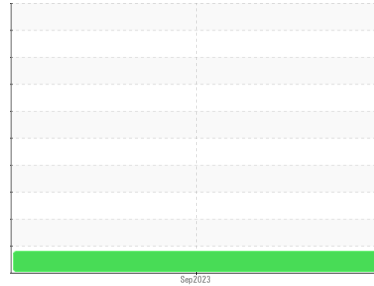




PROBLEM SUMMARY

Sample Rating Trend

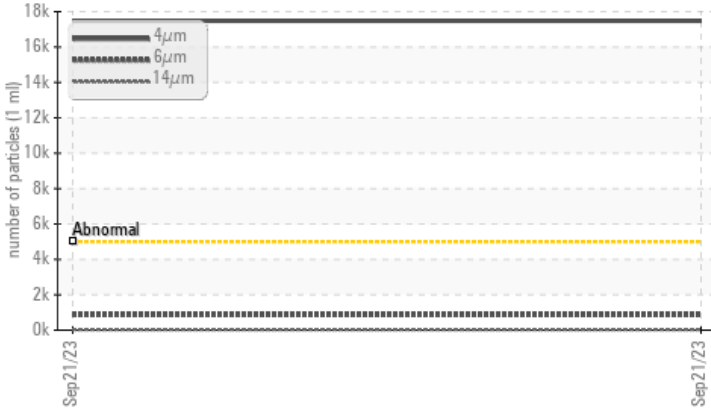
ISO



Area
HYDRAULIC OIL RESERVOIR BOTTOM DRAIN VALVE
 Machine Id
JOHN DEERE CP910 MY23
 Component
Hydraulic System
 Fluid
JOHN DEERE HY-GARD HYD/TRANS (150 GAL)

COMPONENT CONDITION SUMMARY

▲ Particle Trend



RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. (Customer Sample Comment: New machine sitting for at least one day ready to ship.. Did not have filter during ride & drive. Collected out of bottom of hyd reservoir drain valve by removing N410204 drain hose and hose clamp.)

PROBLEMATIC TEST RESULTS

Sample Status			ABNORMAL	---	---
Particles >4µm	ASTM D7647	>5000	▲ 17481	---	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ 21/17/12	---	---

Customer Id: JOHJOHUS
 Sample No.: WC0818510
 Lab Number: 05966189
 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Don Baldrige +1
don.b505@comcast.net

To change component or sample information:
 Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Fluid	---	---	?	Oil and filter change at the time of sampling has been noted.
Change Filter	---	---	?	Oil and filter change at the time of sampling has been noted.

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area
HYDRAULIC OIL RESERVOIR BOTTOM DRAIN VALVE
 Machine Id
JOHN DEERE CP910 MY23

Component
Hydraulic System
 Fluid
JOHN DEERE HY-GARD HYD/TRANS (150 GAL)

DIAGNOSIS

▲ Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. (Customer Sample Comment: New machine sitting for at least one day ready to ship.. Did not have filter during ride & drive. Collected out of bottom of hyd reservoir drain valve by removing N410204 drain hose and hose clamp.)

Wear

All component wear rates are normal.

▲ Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	WC0818510	---	---
Sample Date	Client Info	21 Sep 2023	---	---
Machine Age	hrs	Client Info	2	---
Oil Age	hrs	Client Info	2	---
Oil Changed	Client Info	Changed	---	---
Sample Status		ABNORMAL	---	---

WEAR METALS

method	limit/base	current	history1	history2
PQ	ASTM D8184	19	---	---
Iron	ppm	ASTM D5185m >20	2	---
Chromium	ppm	ASTM D5185m >10	<1	---
Nickel	ppm	ASTM D5185m >10	<1	---
Titanium	ppm	ASTM D5185m	0	---
Silver	ppm	ASTM D5185m	0	---
Aluminum	ppm	ASTM D5185m >10	2	---
Lead	ppm	ASTM D5185m >10	<1	---
Copper	ppm	ASTM D5185m >75	1	---
Tin	ppm	ASTM D5185m >10	0	---
Vanadium	ppm	ASTM D5185m	0	---
Cadmium	ppm	ASTM D5185m	0	---

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 6	0	---
Barium	ppm	ASTM D5185m 0	0	---
Molybdenum	ppm	ASTM D5185m 0	<1	---
Manganese	ppm	ASTM D5185m	<1	---
Magnesium	ppm	ASTM D5185m 145	108	---
Calcium	ppm	ASTM D5185m 3570	3409	---
Phosphorus	ppm	ASTM D5185m 1290	1052	---
Zinc	ppm	ASTM D5185m 1640	1301	---
Sulfur	ppm	ASTM D5185m	3964	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	10	---
Sodium	ppm	ASTM D5185m	0	---
Potassium	ppm	ASTM D5185m >20	2	---

FLUID CLEANLINESS

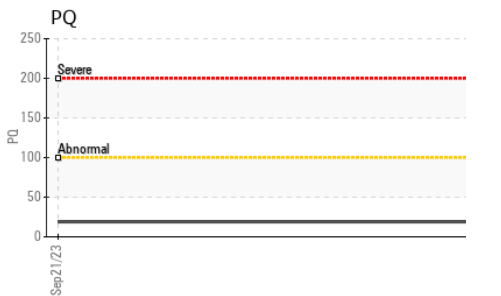
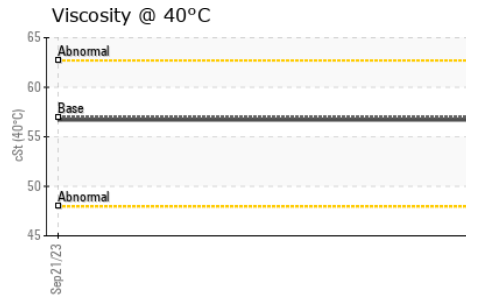
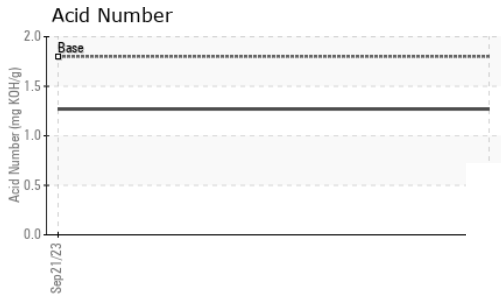
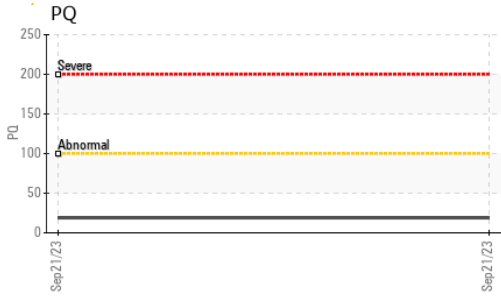
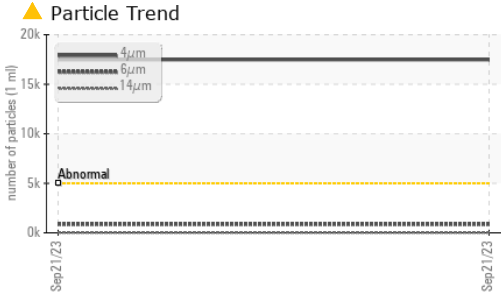
method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	▲ 17481	---
Particles >6µm	ASTM D7647	>1300	868	---
Particles >14µm	ASTM D7647	>160	27	---
Particles >21µm	ASTM D7647	>40	6	---
Particles >38µm	ASTM D7647	>10	2	---
Particles >71µm	ASTM D7647	>3	1	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ 21/17/12	---

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 1.8	1.27	---



OIL ANALYSIS REPORT



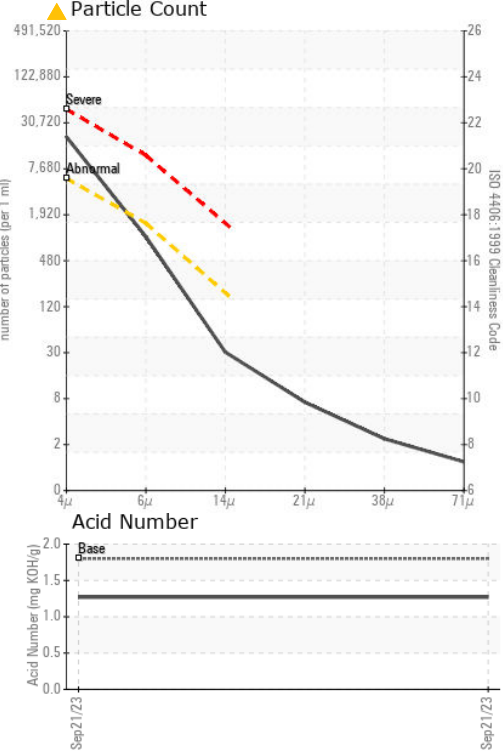
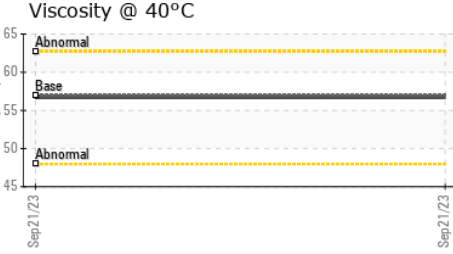
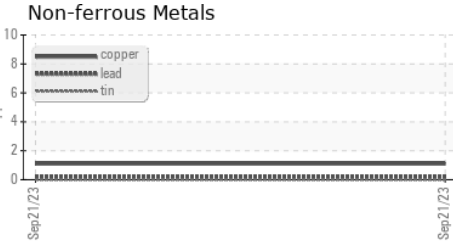
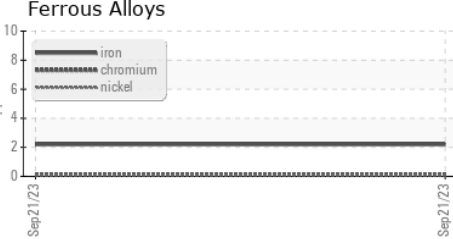
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.1	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	57.0	56.7	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color		no image	no image
Bottom		no image	no image

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0818510 **Received** : 02 Oct 2023
Lab Number : 05966189 **Diagnosed** : 03 Oct 2023
Unique Number : 10672740 **Diagnostician** : Don Baldrige
Test Package : CONST (Additional Tests: PQ, PrtCount)

JOHN DEERE DES MOINES WORKS
 6595 NW 56TH ST
 JOHNSTON, IA
 US 50130
 Contact: NATHAN BRACE
 bracenathant@johndeere.com
 T: (515)289-7140
 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)