



WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL



Area
[W67875]
 Machine Id
JOHN DEERE 210G 1FF210GXPNF530722
 Component
Hydraulic System
 Fluid
HITACHI HYDRAULIC SUPER EX 46HN (30 GAL)

RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample. (Customer Sample Comment: W67875)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0219430	---	---
Sample Date		Client Info		08 Jul 2024	---	---
Machine Age	hrs	Client Info		475	---	---
Oil Age	hrs	Client Info		475	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		N/A	---	---
Filter Changed		Client Info		N/A	---	---
Sample Status				ABNORMAL	---	---

WEAR

All component wear rates are normal.

PQ		ASTM D8184	>50	16	---	---
Iron	ppm	ASTM D5185m	>32	2	---	---
Chromium	ppm	ASTM D5185m	>9	0	---	---
Nickel	ppm	ASTM D5185m	>5	0	---	---
Titanium	ppm	ASTM D5185m		0	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m	>9	<1	---	---
Lead	ppm	ASTM D5185m	>28	0	---	---
Copper	ppm	ASTM D5185m	>50	1	---	---
Tin	ppm	ASTM D5185m	>5	<1	---	---
Vanadium	ppm	ASTM D5185m		0	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

CONTAMINATION

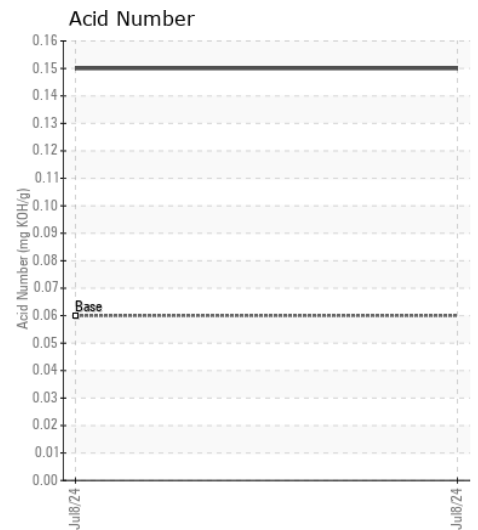
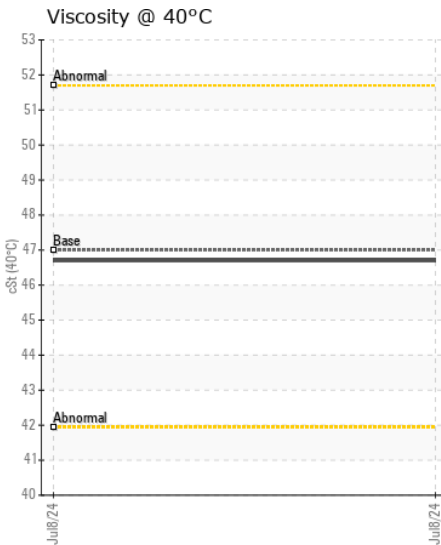
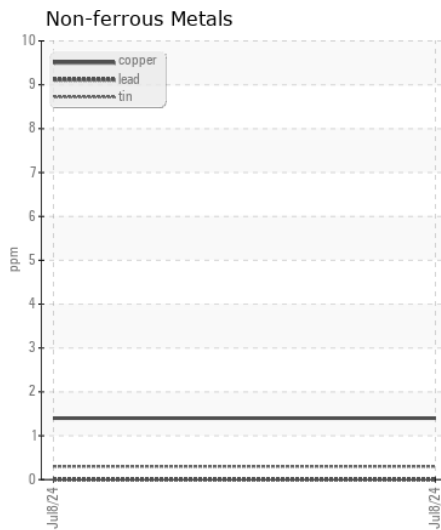
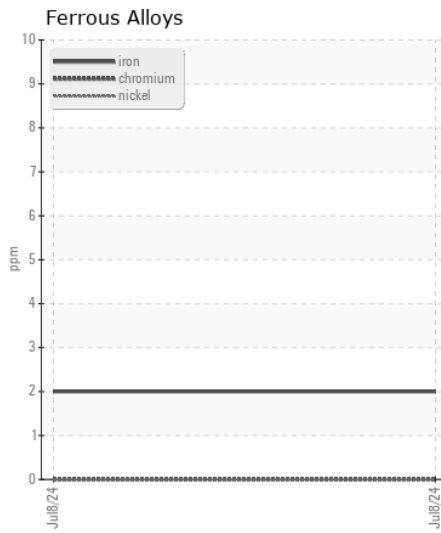
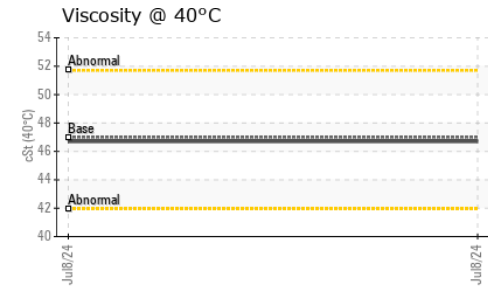
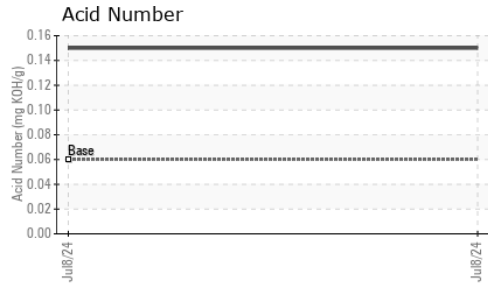
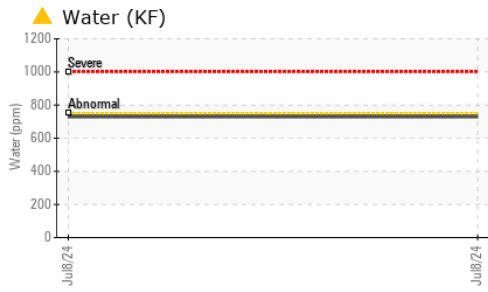
There is a trace of moisture present in the oil. Moderate concentration of visible dirt/debris present in the oil.

Silicon	ppm	ASTM D5185m	>11	2	---	---
Potassium	ppm	ASTM D5185m	>20	3	---	---
Water	%	ASTM D6304	>0.075	▲ 0.073	---	---
ppm Water	ppm	ASTM D6304	>750	▲ 730	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	▲ MODER	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.075	0.2%	---	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m	>21	4	---	---
Boron	ppm	ASTM D5185m		3	---	---
Barium	ppm	ASTM D5185m		0	---	---
Molybdenum	ppm	ASTM D5185m		0	---	---
Manganese	ppm	ASTM D5185m		0	---	---
Magnesium	ppm	ASTM D5185m		4	---	---
Calcium	ppm	ASTM D5185m		16	---	---
Phosphorus	ppm	ASTM D5185m	827	550	---	---
Zinc	ppm	ASTM D5185m	0	26	---	---
Sulfur	ppm	ASTM D5185m	13	258	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045	0.06	0.15	---	---
Visc @ 40°C	cSt	ASTM D445	47	46.7	---	---



Certificate L2367

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

Sample No. : JR0219430

Lab Number : 06232206

Unique Number : 11115699

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

Received : 10 Jul 2024

Tested : 11 Jul 2024

Diagnosed : 11 Jul 2024 - Don Baldrige

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)

JRE - GREENSBORO

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