



WEAR	NORMAL
CONTAMINATION	MARGINAL
FLUID CONDITION	NORMAL

Area
[HOWARD SHOCKEY]
 Machine Id
JOHN DEERE 310G C043444 (S/N T0310GX940601)
 Component
Transmission (Manual)
 Fluid
JOHN DEERE HY-GARD HYD/TRANS (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0221305	JR0067115	---
Sample Date		Client Info		12 Jul 2024	10 Nov 2020	---
Machine Age	hrs	Client Info		7356	7081	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Not Changd	Not Changd	---
Filter Changed		Client Info		Not Changd	Not Changd	---
Sample Status				MARGINAL	NORMAL	---

WEAR

All component wear rates are normal.

PQ		ASTM D8184	>95	22	22	---
Iron	ppm	ASTM D5185m	>200	63	58	---
Chromium	ppm	ASTM D5185m	>5	<1	<1	---
Nickel	ppm	ASTM D5185m	>5	0	2	---
Titanium	ppm	ASTM D5185m		0	<1	---
Silver	ppm	ASTM D5185m	>7	2	2	---
Aluminum	ppm	ASTM D5185m	>25	2	2	---
Lead	ppm	ASTM D5185m	>45	15	20	---
Copper	ppm	ASTM D5185m	>225	75	64	---
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	---

CONTAMINATION

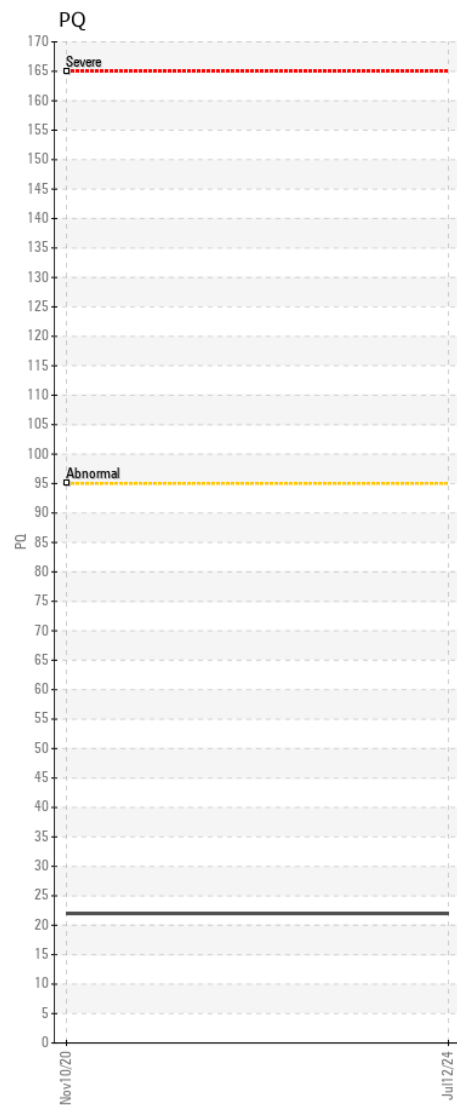
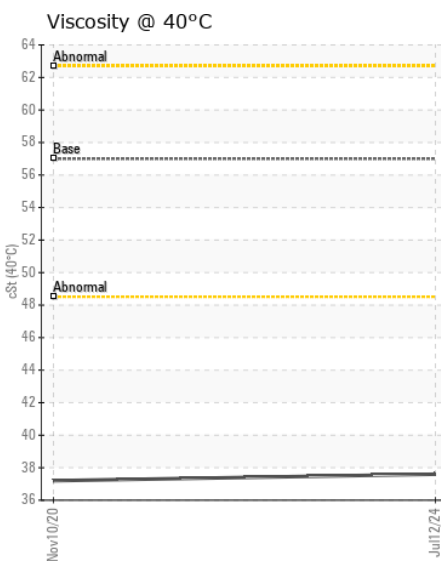
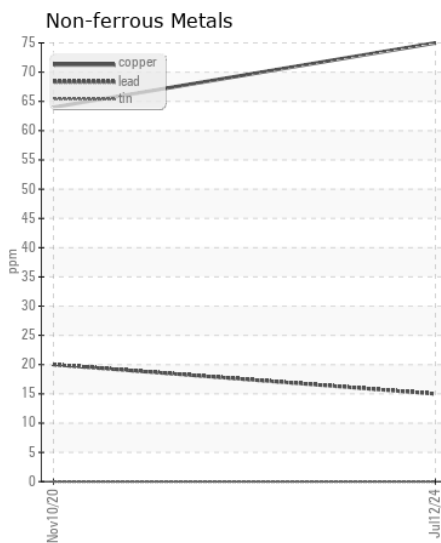
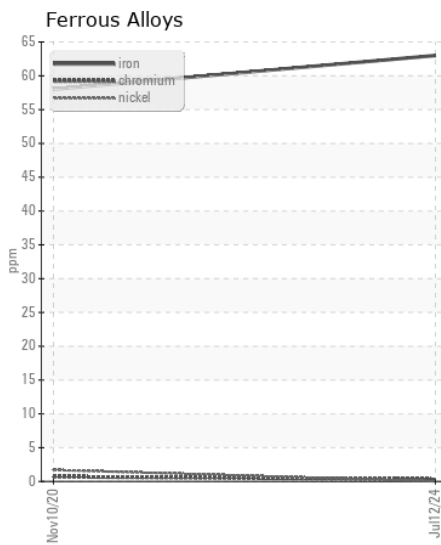
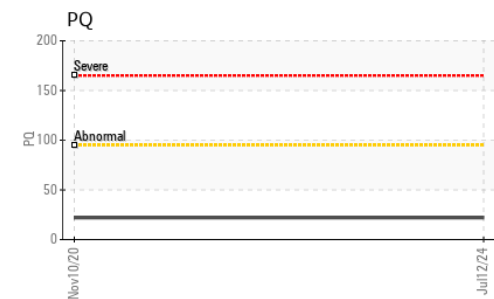
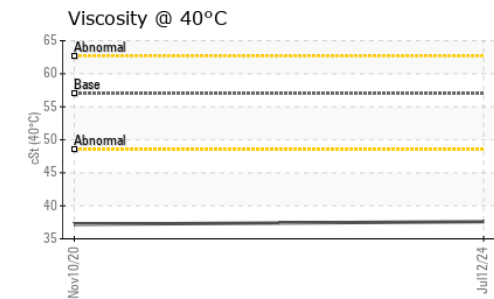
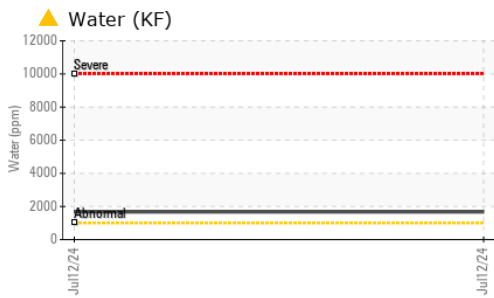
There is a light concentration of water present in the fluid.

Silicon	ppm	ASTM D5185m	>125	5	5	---
Potassium	ppm	ASTM D5185m	>20	4	3	---
Water	%	ASTM D6304	>0.1	▲ 0.167	---	---
ppm Water	ppm	ASTM D6304	>1000	▲ 1670	---	---
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	>0.1	0.2%	NEG	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		5	3	---
Boron	ppm	ASTM D5185m	6	3	3	---
Barium	ppm	ASTM D5185m	0	<1	1	---
Molybdenum	ppm	ASTM D5185m	0	2	3	---
Manganese	ppm	ASTM D5185m		3	3	---
Magnesium	ppm	ASTM D5185m	145	89	76	---
Calcium	ppm	ASTM D5185m	3570	2936	2944	---
Phosphorus	ppm	ASTM D5185m	1290	920	902	---
Zinc	ppm	ASTM D5185m	1640	1176	1117	---
Sulfur	ppm	ASTM D5185m		4332	2976	---
Visc @ 40°C	cSt	ASTM D445	57.0	37.6	37.2	---



Certificate L2367

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

Sample No. : JR0221305

Lab Number : 06238034

Unique Number : 11126868

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

Received : 16 Jul 2024

Tested : 18 Jul 2024

Diagnosed : 18 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 - STEPHENSON

245 YARDMASTER COURT

STEPHENSON, VA

US 22656-1761

Contact: PHIL DAUGHERTY

pdaugherty@jamesriverequipment.com

T: x:

F: (540)693-2588