

WEAR **NORMAL**CONTAMINATION **ABNORMAL**FLUID CONDITION **NORMAL**

Area

[W22071]

Machine Id

JOHN DEERE 8R 310 42001806 (S/N 1RW8310D11MC181073)

Component

Hydraulic System

Fluid

JOHN DEERE HY-GARD HYD/TRANS (--- GAL)**RECOMMENDATION**

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0196610	---	---
Sample Date		Client Info		03 May 2024	---	---
Machine Age	hrs	Client Info		1310	---	---
Oil Age	hrs	Client Info		1310	---	---
Filter Age	hrs	Client Info		1310	---	---
Oil Changed		Client Info		Not Chngd	---	---
Filter Changed		Client Info		Not Chngd	---	---
Sample Status				ABNORMAL	---	---

WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
Iron	ppm	ASTM D5185m	>20	20	---	---
Chromium	ppm	ASTM D5185m	>10	0	---	---
Nickel	ppm	ASTM D5185m	>10	<1	---	---
Titanium	ppm	ASTM D5185m		0	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m	>10	1	---	---
Lead	ppm	ASTM D5185m	>10	4	---	---
Copper	ppm	ASTM D5185m	>75	9	---	---
Tin	ppm	ASTM D5185m	>10	<1	---	---
Vanadium	ppm	ASTM D5185m		0	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

CONTAMINATION

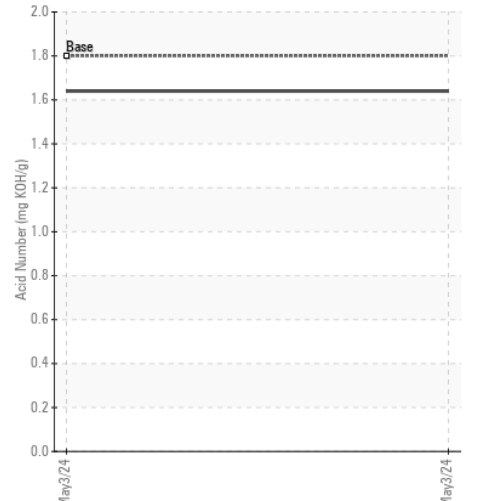
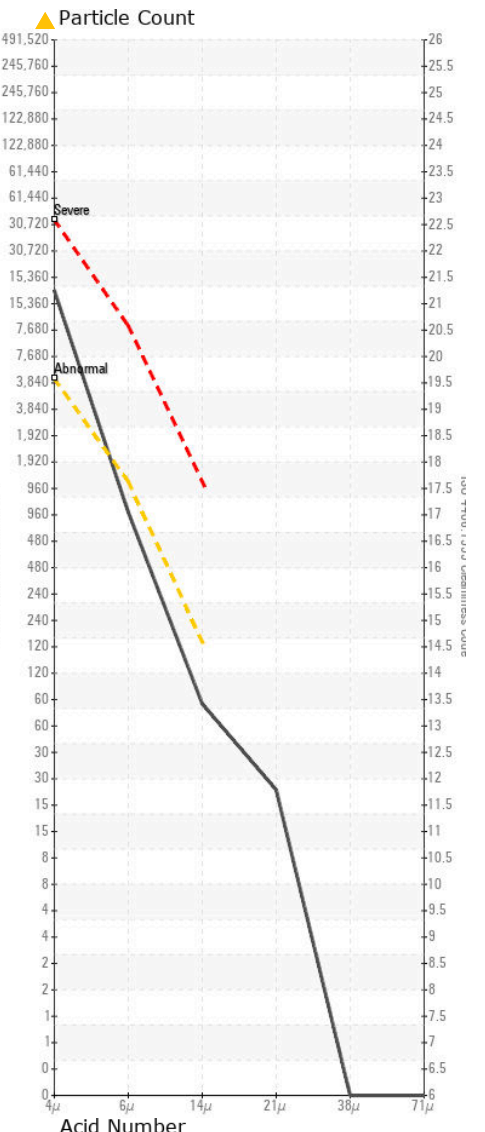
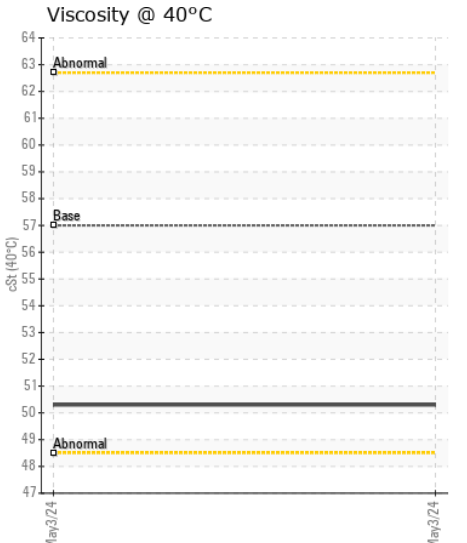
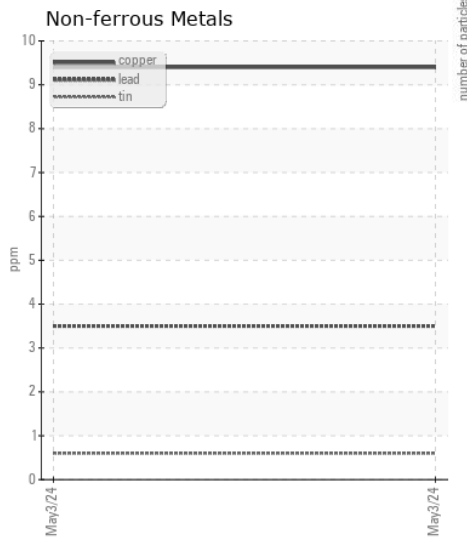
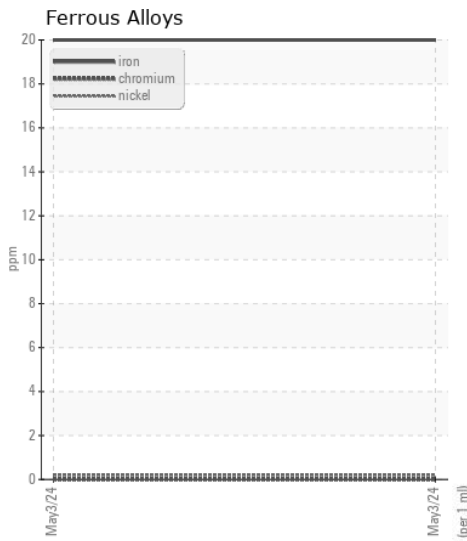
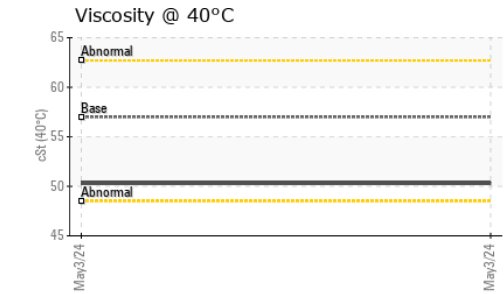
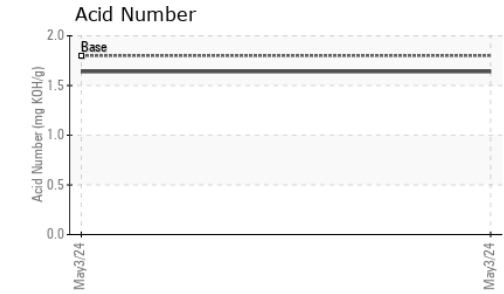
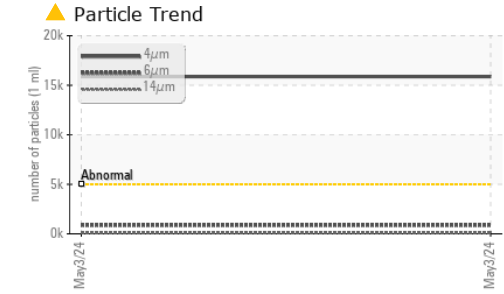
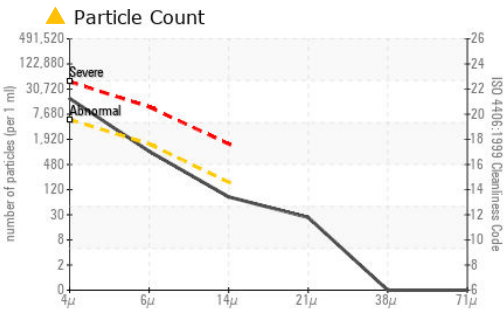
There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>20	5	---	---
Potassium	ppm	ASTM D5185m	>20	2	---	---
Water		WC Method	>0.1	NEG	---	---
Particles >4µm		ASTM D7647	>5000	▲ 15870	---	---
Particles >6µm		ASTM D7647	>1300	872	---	---
Particles >14µm		ASTM D7647	>160	71	---	---
Particles >21µm		ASTM D7647	>40	23	---	---
Particles >38µm		ASTM D7647	>10	0	---	---
Particles >71µm		ASTM D7647	>3	0	---	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 21/17/13	---	---
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	---	---

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		4	---	---
Boron	ppm	ASTM D5185m	6	7	---	---
Barium	ppm	ASTM D5185m	0	0	---	---
Molybdenum	ppm	ASTM D5185m	0	0	---	---
Manganese	ppm	ASTM D5185m		1	---	---
Magnesium	ppm	ASTM D5185m	145	88	---	---
Calcium	ppm	ASTM D5185m	3570	3365	---	---
Phosphorus	ppm	ASTM D5185m	1290	987	---	---
Zinc	ppm	ASTM D5185m	1640	1163	---	---
Sulfur	ppm	ASTM D5185m		3966	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045	1.8	1.64	---	---
Visc @ 40°C	cSt	ASTM D445	57.0	50.3	---	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0196610 **Received** : 10 May 2024
Lab Number : 06176055 **Tested** : 14 May 2024
Unique Number : 11022108 **Diagnosed** : 14 May 2024 - Don Baldrige
Test Package : CONST (Additional Tests: PQ)

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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