



OIL ANALYSIS REPORT

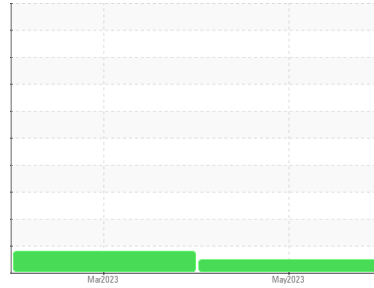
Sample Rating Trend

NORMAL



Machine Id
JOHN DEERE 8R310 11614 (S/N 1RW8310DTNB208641)

Component
Hydraulic System
Fluid
NOT GIVEN (--- GAL)



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

All component wear rates are normal.

Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

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		WC0816180	WC0797815	---
Sample Date	Client Info		22 May 2023	30 Mar 2023	---
Machine Age	hrs	Client Info	1770	909	---
Oil Age	hrs	Client Info	1770	909	---
Oil Changed	Client Info		Changed	Not Changd	---
Sample Status			NORMAL	ATTENTION	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >20	26	21	---
Chromium	ppm	ASTM D5185m >10	<1	0	---
Nickel	ppm	ASTM D5185m >10	<1	0	---
Titanium	ppm	ASTM D5185m	<1	0	---
Silver	ppm	ASTM D5185m	0	0	---
Aluminum	ppm	ASTM D5185m >10	<1	<1	---
Lead	ppm	ASTM D5185m >10	3	0	---
Copper	ppm	ASTM D5185m >75	15	11	---
Tin	ppm	ASTM D5185m >10	2	<1	---
Vanadium	ppm	ASTM D5185m	0	<1	---
Cadmium	ppm	ASTM D5185m	<1	0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	15	<1	---
Barium	ppm	ASTM D5185m	0	0	---
Molybdenum	ppm	ASTM D5185m	1	0	---
Manganese	ppm	ASTM D5185m	2	2	---
Magnesium	ppm	ASTM D5185m	99	98	---
Calcium	ppm	ASTM D5185m	3406	3302	---
Phosphorus	ppm	ASTM D5185m	993	896	---
Zinc	ppm	ASTM D5185m	1227	1072	---
Sulfur	ppm	ASTM D5185m	3765	3231	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	8	6	---
Sodium	ppm	ASTM D5185m	4	<1	---
Potassium	ppm	ASTM D5185m >20	1	0	---

FLUID CLEANLINESS

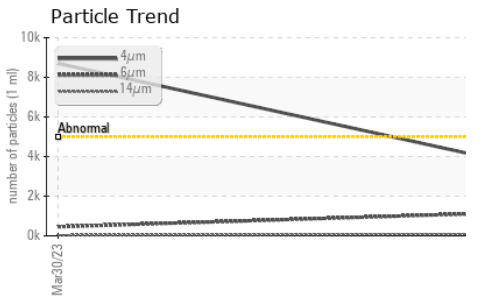
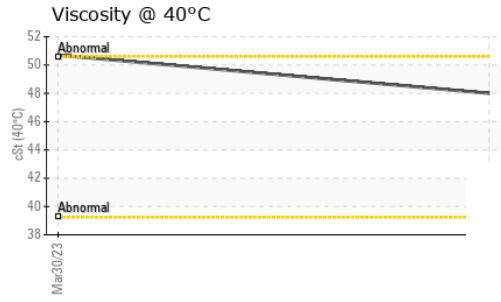
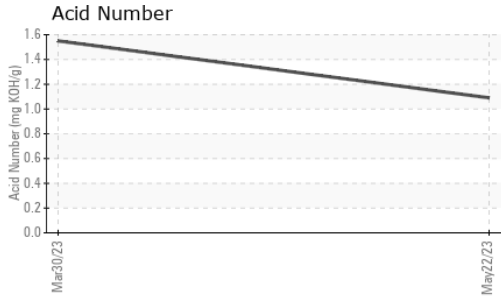
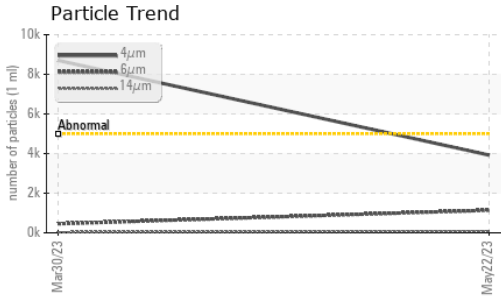
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	3923	▲ 8704	---
Particles >6µm	ASTM D7647	>1300	1139	457	---
Particles >14µm	ASTM D7647	>160	78	28	---
Particles >21µm	ASTM D7647	>40	10	8	---
Particles >38µm	ASTM D7647	>10	0	0	---
Particles >71µm	ASTM D7647	>3	0	0	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	19/17/13	▲ 20/16/12	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.09	1.55	---



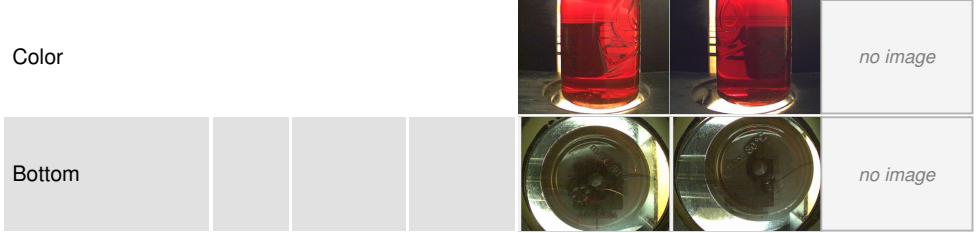
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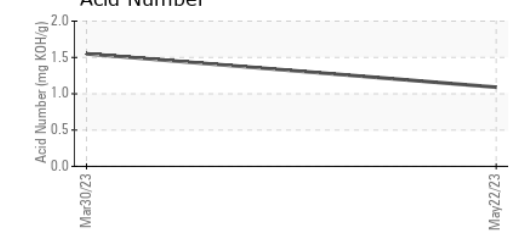
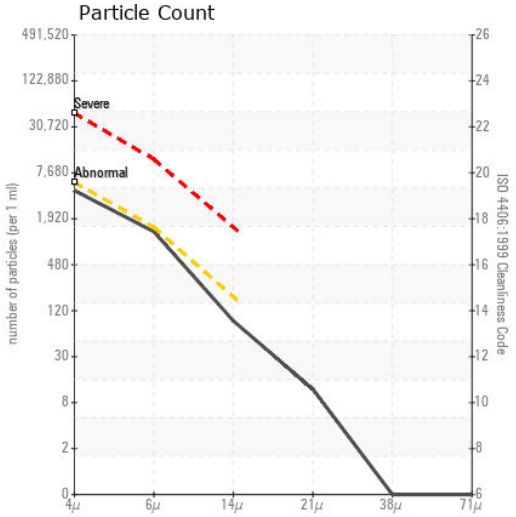
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*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	48.0	50.7	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0816180 **Received** : 24 May 2023
Lab Number : 05856116 **Diagnosed** : 26 May 2023
Unique Number : 10485471 **Diagnostician** : Wes Davis
Test Package : CONST

TRADER CONSTRUCTION CO.
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 NEW BERN, NC
 US 28563
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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)