



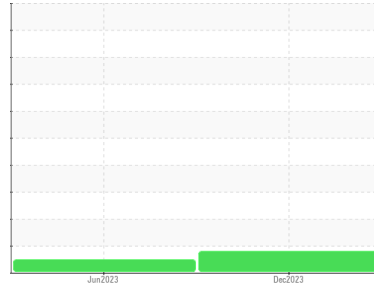
PROBLEM SUMMARY

Sample Rating Trend

WEAR

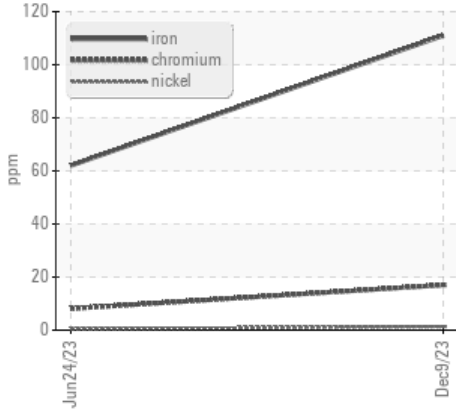
Area
ORIN CONTRACTORS
Machine Id
878

Component
Right Final Drive
Fluid
JOHN DEERE HY-GARD HYD/TRANS (--- GAL)

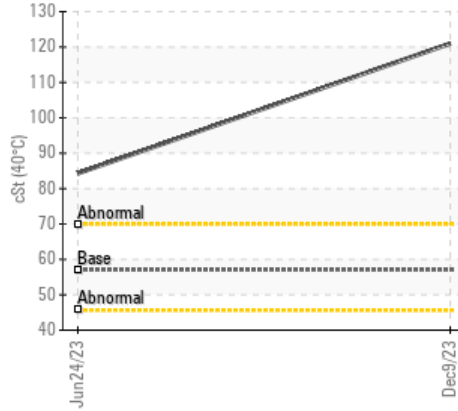


COMPONENT CONDITION SUMMARY

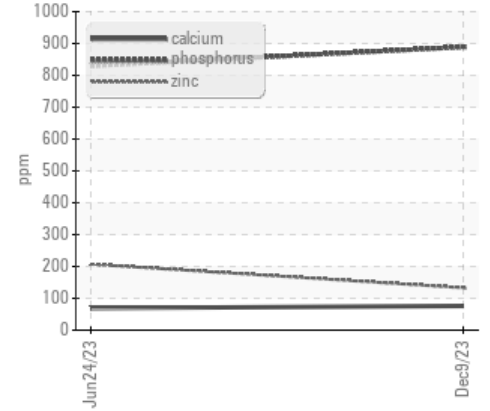
▲ Ferrous Alloys



Viscosity @ 40°C



Additives



RECOMMENDATION

The oil change at the time of sampling has been noted. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status		ABNORMAL	NORMAL	---
Chromium	ppm ASTM D5185(m) >9	▲ 17	8	---

Customer Id: RONVAU
Sample No.: WC0872894
Lab Number: 02603323
Test Package: MOBCE



To manage this report scan the QR code

To discuss the diagnosis or test data:
Kevin Marson +1 (289)291-4644 x4644
Kevin.Marson@wearcheck.com

To change component or sample information:
Gloria Gonzalez +1 (289)291-4643 x4643
gloria.gonzalez@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Resample	---	---	?	We recommend an early resample to monitor this condition.
Check Fluid Source	---	---	?	Confirm the source of the lubricant being utilized for top-up/fill.

HISTORICAL DIAGNOSIS

24 Jun 2023 Diag: Wes Davis

NORMAL



Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. Additive levels indicate the addition of a different brand, or type of oil. Viscosity of sample indicates oil is within SAE 80 range, advise investigate. The condition of the oil is acceptable for the time in service.

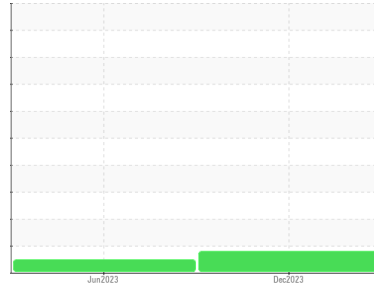
view report





OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Area
ORIN CONTRACTORS

Machine Id
878

Component
Right Final Drive

Fluid
JOHN DEERE HY-GARD HYD/TRANS (--- GAL)

DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition.

Wear

Chromium ppm levels are abnormal. A sharp increase in the chromium level is noted.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

Additive levels indicate the addition of a different brand, or type of oil. Viscosity of sample indicates oil is within SAE 90 range, advise investigate. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0872894	LH0256898	---
Sample Date	Client Info		09 Dec 2023	24 Jun 2023	---
Machine Age	hrs	Client Info	0	1033	---
Oil Age	hrs	Client Info	0	0	---
Oil Changed	Client Info		Changed	Changed	---
Sample Status			ABNORMAL	NORMAL	---

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.075	NEG	NEG	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >750	111	62	---
Chromium	ppm	ASTM D5185(m) >9	▲ 17	8	---
Nickel	ppm	ASTM D5185(m) >10	1	<1	---
Titanium	ppm	ASTM D5185(m)	<1	<1	---
Silver	ppm	ASTM D5185(m)	5	0	---
Aluminum	ppm	ASTM D5185(m) >40	16	6	---
Lead	ppm	ASTM D5185(m) >15	1	<1	---
Copper	ppm	ASTM D5185(m) >40	1	1	---
Tin	ppm	ASTM D5185(m) >10	0	0	---
Antimony	ppm	ASTM D5185(m) >5	0	0	---
Vanadium	ppm	ASTM D5185(m)	0	0	---
Beryllium	ppm	ASTM D5185(m)	0	0	---
Cadmium	ppm	ASTM D5185(m)	0	0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 6	205	153	---
Barium	ppm	ASTM D5185(m) 0	2	1	---
Molybdenum	ppm	ASTM D5185(m) 0	1	<1	---
Manganese	ppm	ASTM D5185(m)	2	3	---
Magnesium	ppm	ASTM D5185(m) 145	9	5	---
Calcium	ppm	ASTM D5185(m) 3570	76	69	---
Phosphorus	ppm	ASTM D5185(m) 1290	889	830	---
Zinc	ppm	ASTM D5185(m) 1640	133	207	---
Sulfur	ppm	ASTM D5185(m)	16056	14471	---
Lithium	ppm	ASTM D5185(m)	1	2	---

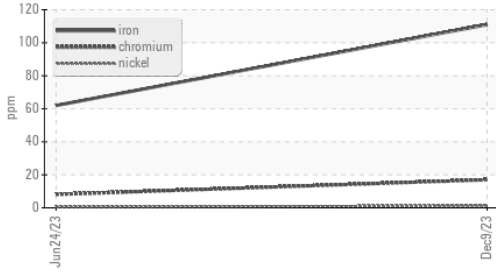
CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >75	62	28	---
Sodium	ppm	ASTM D5185(m) >51	6	6	---
Potassium	ppm	ASTM D5185(m) >20	5	3	---

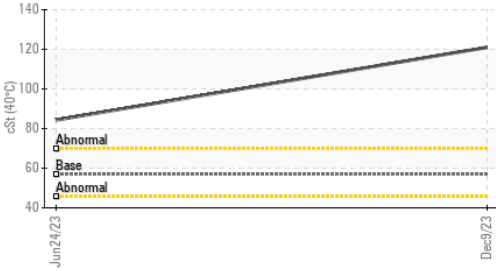


OIL ANALYSIS REPORT

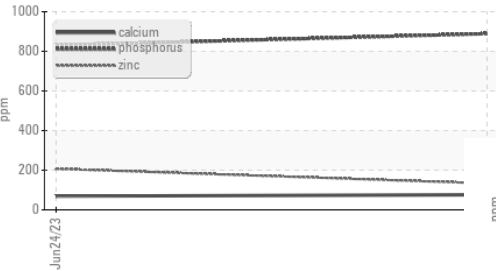
▲ Ferrous Alloys



Viscosity @ 40°C



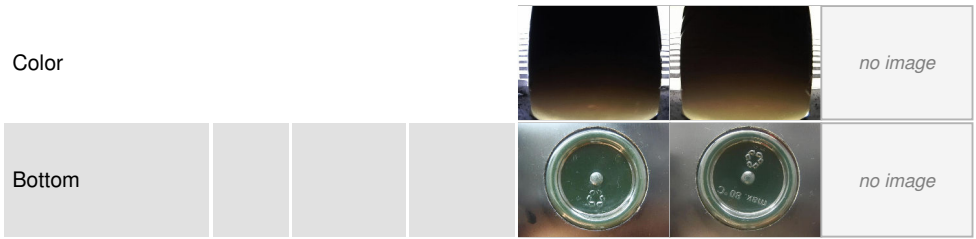
Additives



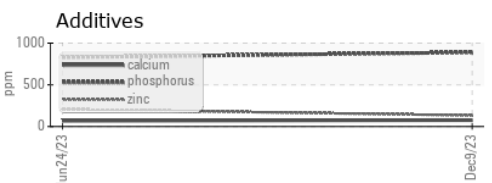
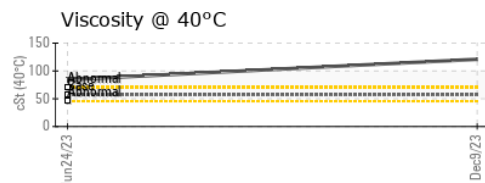
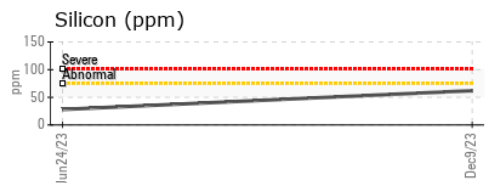
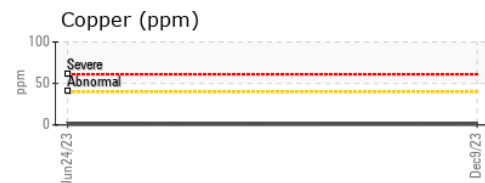
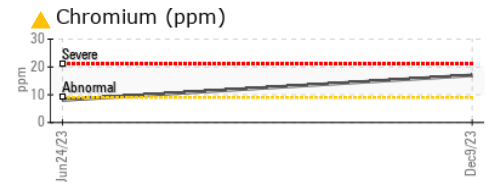
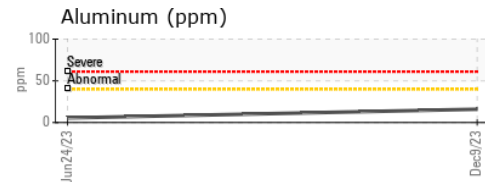
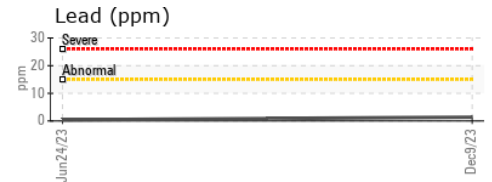
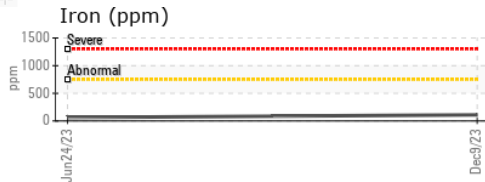
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	---
Precipitate	scalar	Visual*	NONE	NONE	---
Silt	scalar	Visual*	NONE	NONE	---
Debris	scalar	Visual*	NONE	NONE	VLITE
Sand/Dirt	scalar	Visual*	NONE	NONE	---
Appearance	scalar	Visual*	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.075	NEG	---
Free Water	scalar	Visual*		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	57.0	121	84.3

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **RONI/IRON SHORE EXCAVATING LTD.**
Sample No. : WC0872894 **Received** : 14 Dec 2023 **100 MACINTOSH BLVD**
Lab Number : 02603323 **Diagnosed** : 18 Dec 2023 **VAUGHAN, ON**
Unique Number : 5696408 **Diagnostician** : Kevin Marson **CA L4K 4P3**
Test Package : MOBCE (Additional Tests: Visual) **Contact: Service Team**
service.team@roni.ca

To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.