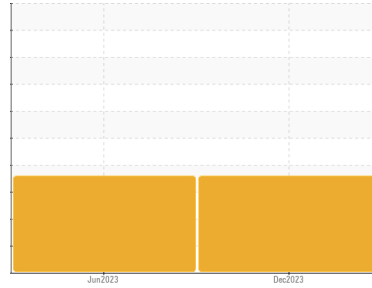




PROBLEM SUMMARY

Sample Rating Trend



DIRT



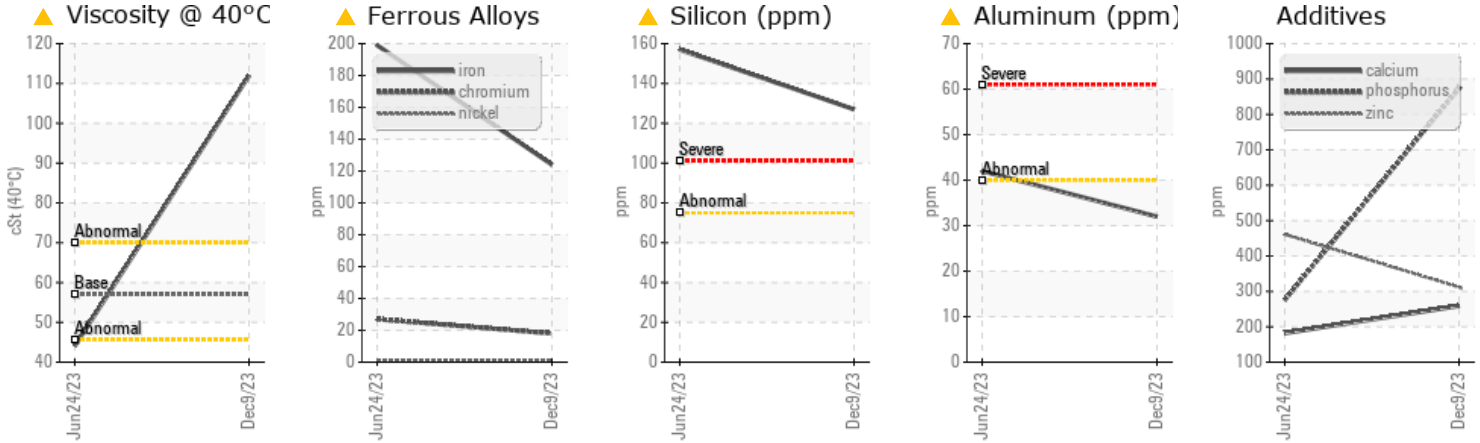
Area
ORIN CONTRACTORS

Machine Id
878

Component
Left Final Drive

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

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you check all areas where dirt can enter the system. 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	ABNORMAL	---
Chromium	ppm	ASTM D5185(m)	>9	▲ 18	▲ 27	---
Aluminum	ppm	ASTM D5185(m)	>40	▲ 32	▲ 42	---
Silicon	ppm	ASTM D5185(m)	>75	▲ 127	▲ 157	---
Visc @ 40°C	cSt	ASTM D7279(m)	57.0	▲ 112	▲ 44.1	---

Customer Id: RONVAU
Sample No.: WC0872885
Lab Number: 02603324
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 Dirt Access	---	---	?	We advise that you check all areas where dirt can enter the system.
Check Fluid Source	---	---	?	Confirm the source of the lubricant being utilized for top-up/fill.

HISTORICAL DIAGNOSIS

24 Jun 2023 Diag: Kevin Marson

DIRT



We advise that you check all areas where dirt can enter the system. 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. Chromium ppm levels are abnormal. Aluminum ppm levels are noted. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. High amount of ingressed dirt has caused abrasive wear to the component. Viscosity of sample indicates oil is within ISO 46 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

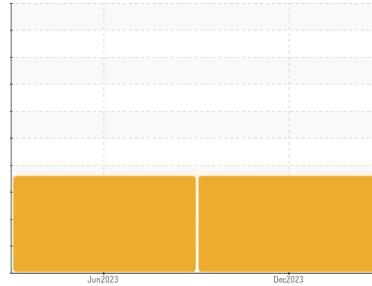
view report





OIL ANALYSIS REPORT

Sample Rating Trend



Area
ORIN CONTRACTORS
 Machine Id
878
 Component
Left Final Drive
 Fluid
JOHN DEERE HY-GARD HYD/TRANS (--- GAL)

DIAGNOSIS

Recommendation
 We advise that you check all areas where dirt can enter the system. 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. Aluminum ppm levels are noted.

Contamination
 Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. High amount of ingressed dirt has caused abrasive wear to the component.

Fluid Condition
 Viscosity of sample indicates oil is within SAE 90 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. 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	WC0872885	LH0256899	---
Sample Date	Client Info	09 Dec 2023	24 Jun 2023	---
Machine Age	hrs	0	1033	---
Oil Age	hrs	0	0	---
Oil Changed	Client Info	Changed	Changed	---
Sample Status		ABNORMAL	ABNORMAL	---

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	124	199	---
Chromium	ppm ASTM D5185(m) >9	▲ 18	▲ 27	---
Nickel	ppm ASTM D5185(m) >10	1	1	---
Titanium	ppm ASTM D5185(m)	2	3	---
Silver	ppm ASTM D5185(m)	6	0	---
Aluminum	ppm ASTM D5185(m) >40	▲ 32	▲ 42	---
Lead	ppm ASTM D5185(m) >15	1	1	---
Copper	ppm ASTM D5185(m) >40	3	3	---
Tin	ppm ASTM D5185(m) >10	0	0	---
Antimony	ppm ASTM D5185(m) >5	0	0	---
Vanadium	ppm ASTM D5185(m)	0	<1	---
Beryllium	ppm ASTM D5185(m)	0	0	---
Cadmium	ppm ASTM D5185(m)	<1	0	---

ADDITIVES

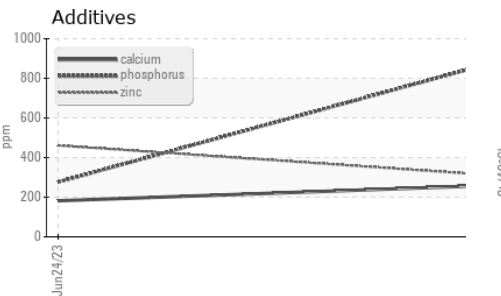
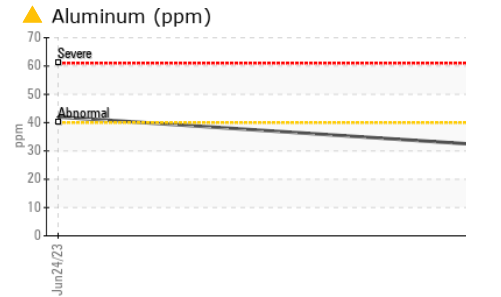
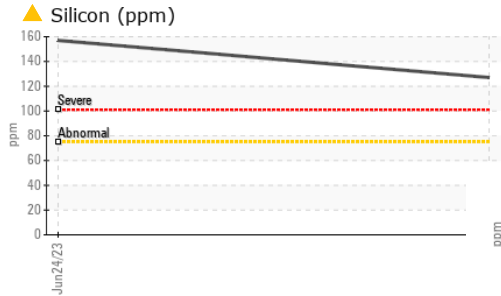
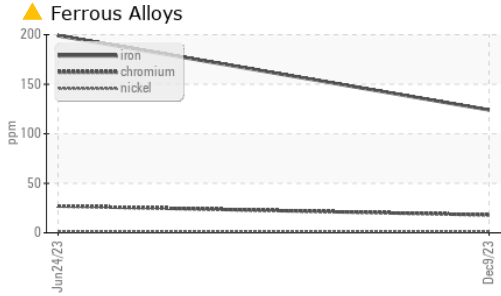
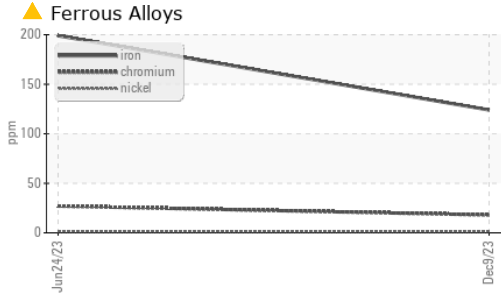
method	limit/base	current	history1	history2
Boron	ppm ASTM D5185(m) 6	130	3	---
Barium	ppm ASTM D5185(m) 0	1	4	---
Molybdenum	ppm ASTM D5185(m) 0	2	3	---
Manganese	ppm ASTM D5185(m)	2	5	---
Magnesium	ppm ASTM D5185(m) 145	119	16	---
Calcium	ppm ASTM D5185(m) 3570	259	182	---
Phosphorus	ppm ASTM D5185(m) 1290	874	276	---
Zinc	ppm ASTM D5185(m) 1640	312	461	---
Sulfur	ppm ASTM D5185(m)	14058	7147	---
Lithium	ppm ASTM D5185(m)	1	4	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >75	▲ 127	▲ 157	---
Sodium	ppm ASTM D5185(m) >51	9	14	---
Potassium	ppm ASTM D5185(m) >20	11	18	---



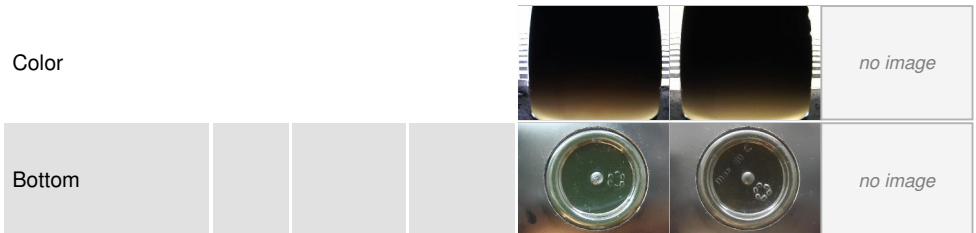
OIL ANALYSIS REPORT



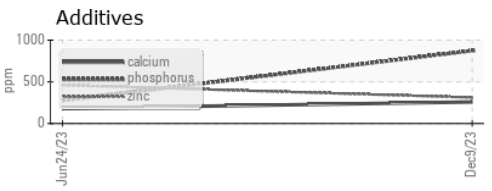
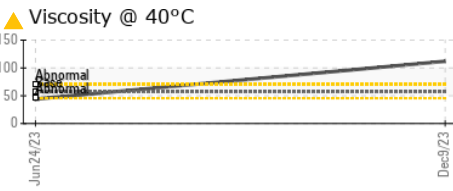
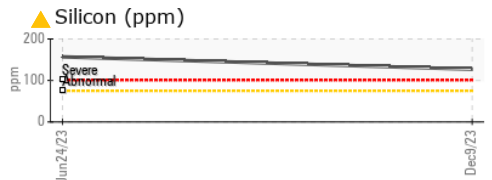
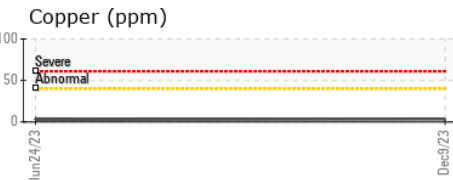
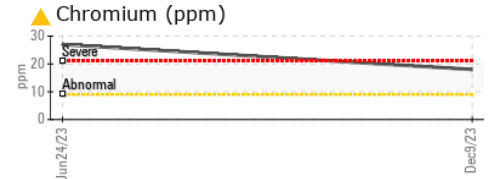
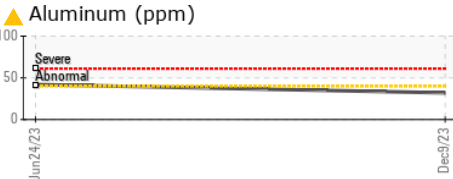
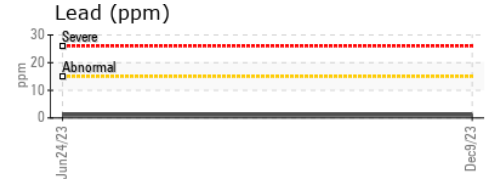
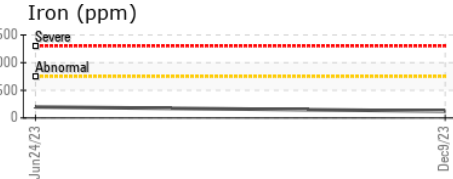
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	---
Precipitate	scalar	Visual*	NONE	NONE	---
Silt	scalar	Visual*	NONE	NONE	VLITE
Debris	scalar	Visual*	NONE	NONE	VLITE
Sand/Dirt	scalar	Visual*	NONE	NONE	---
Appearance	scalar	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 ▲ 112	▲ 44.1	---

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. : WC0872885 **Received** : 14 Dec 2023 **100 MACINTOSH BLVD**
Lab Number : 02603324 **Diagnosed** : 18 Dec 2023 **VAUGHAN, ON**
Unique Number : 5696409 **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.