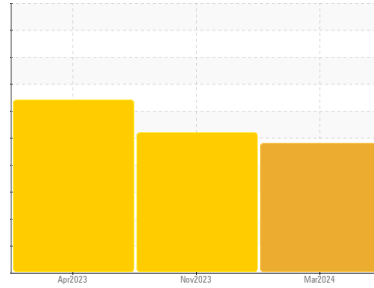




OIL ANALYSIS REPORT

Sample Rating Trend



DIRT



Machine Id
100-005
 Component
Left Final Drive
 Fluid
PETRO CANADA 30W (--- 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. We recommend an early resample to monitor this condition.

▲ Wear

Chromium and iron ppm levels are abnormal. Aluminum ppm levels are noted. Titanium ppm levels are marginal. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion.

▲ 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

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		WC0920778	WC0872754	LH
Sample Date	Client Info		16 Mar 2024	13 Nov 2023	06 Apr 2023
Machine Age	hrs	Client Info	0	0	0
Oil Age	hrs	Client Info	0	0	0
Oil Changed	Client Info		Changed	Changed	N/A
Sample Status			ABNORMAL	ABNORMAL	ABNORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.2	NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184*		292	88	489
Iron	ppm	ASTM D5185(m) >500	▲ 1018	▲ 784	▲ 858
Chromium	ppm	ASTM D5185(m) >10	▲ 21	▲ 18	▲ 16
Nickel	ppm	ASTM D5185(m) >10	6	5	6
Titanium	ppm	ASTM D5185(m)	▲ 21	▲ 18	▲ 18
Silver	ppm	ASTM D5185(m)	0	<1	0
Aluminum	ppm	ASTM D5185(m) >25	● 349	● 306	● 281
Lead	ppm	ASTM D5185(m) >25	<1	<1	<1
Copper	ppm	ASTM D5185(m) >50	3	3	3
Tin	ppm	ASTM D5185(m) >10	0	0	0
Antimony	ppm	ASTM D5185(m) >5	0	0	<1
Vanadium	ppm	ASTM D5185(m)	<1	<1	<1
Beryllium	ppm	ASTM D5185(m)	0	0	0
Cadmium	ppm	ASTM D5185(m)	0	0	0

ADDITIVES

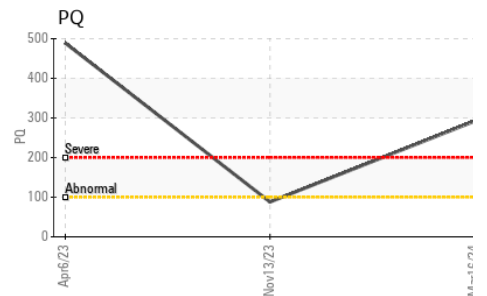
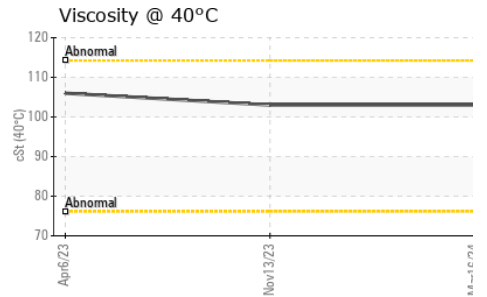
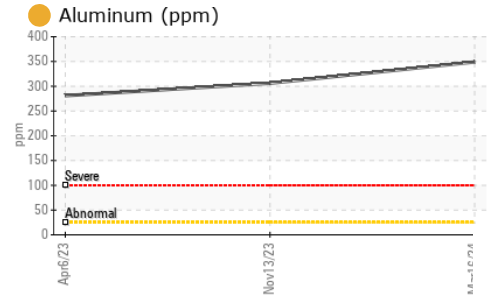
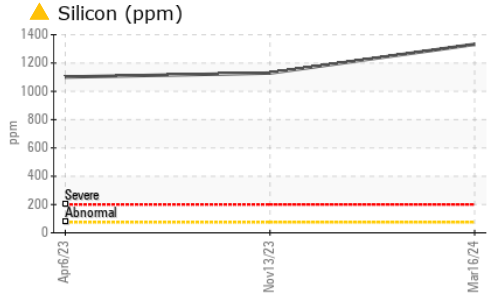
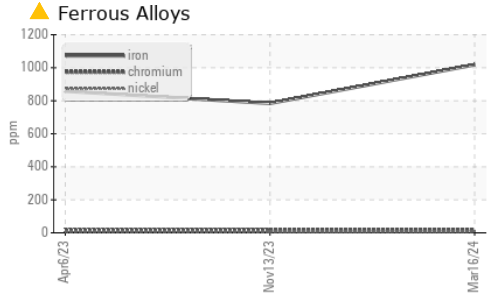
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Boron	ppm	ASTM D5185(m)	47	44	41
Barium	ppm	ASTM D5185(m)	5	6	4
Molybdenum	ppm	ASTM D5185(m)	0	0	<1
Manganese	ppm	ASTM D5185(m)	19	17	14
Magnesium	ppm	ASTM D5185(m)	174	152	138
Calcium	ppm	ASTM D5185(m)	5378	5138	5251
Phosphorus	ppm	ASTM D5185(m)	815	873	949
Zinc	ppm	ASTM D5185(m)	866	883	884
Sulfur	ppm	ASTM D5185(m)	6264	6418	6718
Lithium	ppm	ASTM D5185(m)	1	<1	<1

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >75	▲ 1332	▲ 1129	▲ 1101
Sodium	ppm	ASTM D5185(m)	85	71	68
Potassium	ppm	ASTM D5185(m) >20	149	134	112



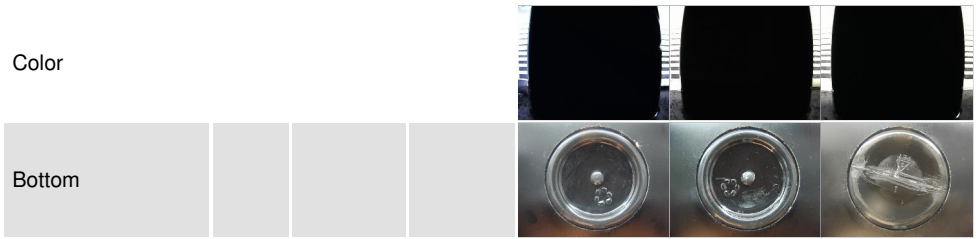
OIL ANALYSIS REPORT



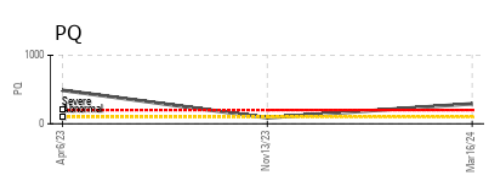
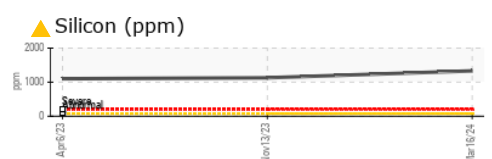
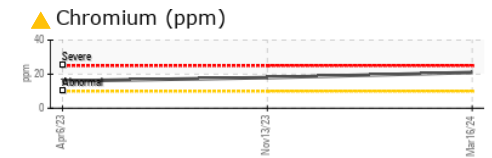
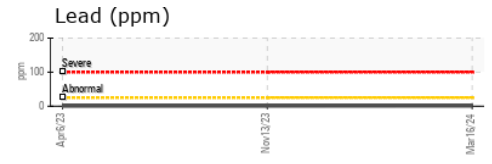
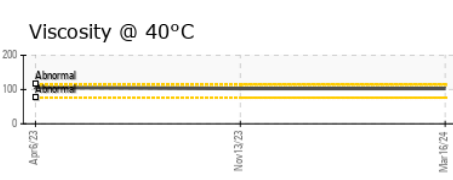
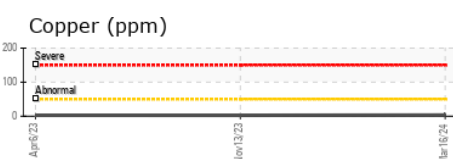
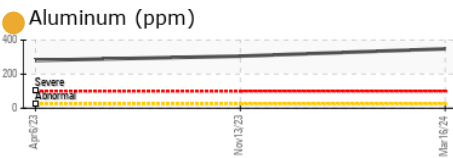
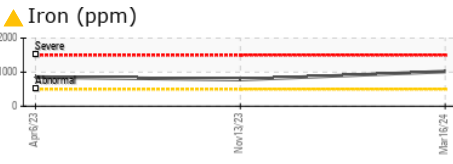
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	VLITE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	LIGHT
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	NEG	▲ .2%
Free Water	scalar	Visual*		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	103	▲ 103	106

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0920778
Lab Number : 02624389
Unique Number : 5749508
Test Package : MOBCE (Additional Tests: PQ, Visual)

RONI/IRON SHORE EXCAVATING LTD.
 100 MACINTOSH BLVD
 VAUGHAN, ON
 CA L4K 4P3
 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.

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F: