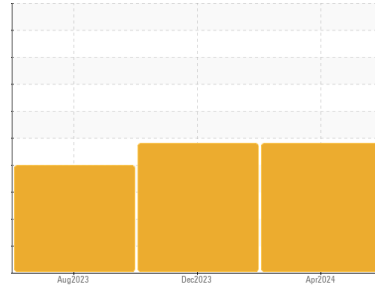




OIL ANALYSIS REPORT

Sample Rating Trend



DIRT



Area
RONI
 Machine Id
861
 Component
Right Final Drive
 Fluid
PETRO CANADA 30W (--- GAL)

DIAGNOSIS

Recommendation

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. 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	WC0920825	WC0872907	LH0261501
Sample Date	Client Info	09 Apr 2024	01 Dec 2023	14 Aug 2023
Machine Age	hrs	Client Info	0	0
Oil Age	hrs	Client Info	0	0
Oil Changed	Client Info	N/A	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*	436	370	49
Iron	ppm ASTM D5185(m) >500	▲ 1444	▲ 2688	▲ 1619
Chromium	ppm ASTM D5185(m) >10	▲ 31	▲ 84	▲ 47
Nickel	ppm ASTM D5185(m) >10	3	7	4
Titanium	ppm ASTM D5185(m)	▲ 14	▲ 29	12
Silver	ppm ASTM D5185(m)	0	<1	0
Aluminum	ppm ASTM D5185(m) >25	● 246	● 462	● 183
Lead	ppm ASTM D5185(m) >25	0	1	<1
Copper	ppm ASTM D5185(m) >50	2	4	2
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

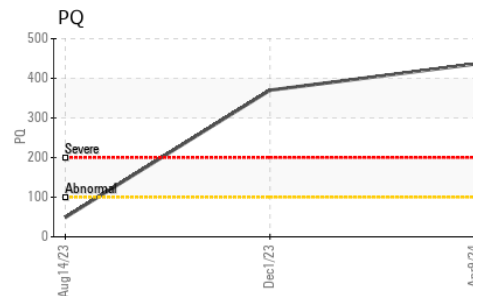
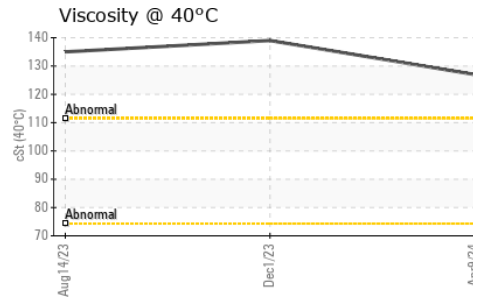
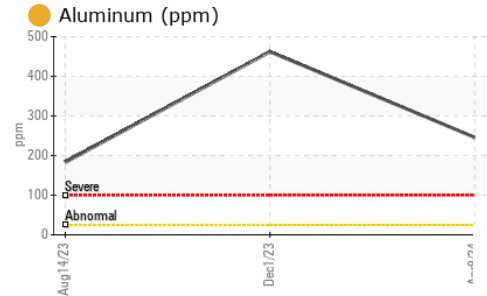
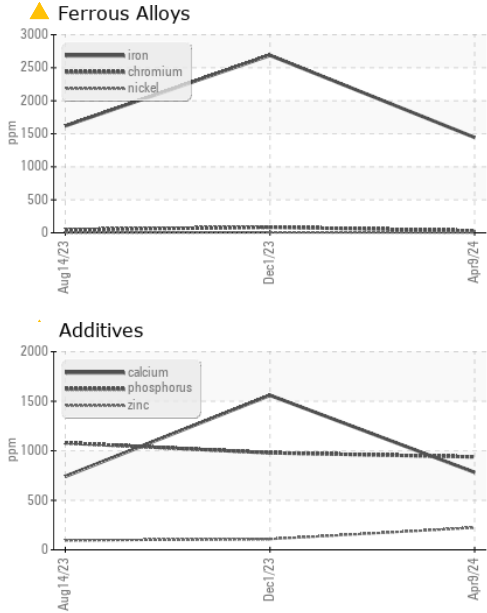
method	limit/base	current	history1	history2
Boron	ppm ASTM D5185(m)	112	176	129
Barium	ppm ASTM D5185(m)	2	5	3
Molybdenum	ppm ASTM D5185(m)	2	7	5
Manganese	ppm ASTM D5185(m)	12	25	14
Magnesium	ppm ASTM D5185(m)	181	173	81
Calcium	ppm ASTM D5185(m)	782	1560	741
Phosphorus	ppm ASTM D5185(m)	938	979	1079
Zinc	ppm ASTM D5185(m)	224	108	95
Sulfur	ppm ASTM D5185(m)	15107	17445	17473
Lithium	ppm ASTM D5185(m)	<1	<1	<1

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >75	▲ 1223	▲ 2107	▲ 843
Sodium	ppm ASTM D5185(m)	77	135	62
Potassium	ppm ASTM D5185(m) >20	85	168	66



OIL ANALYSIS REPORT



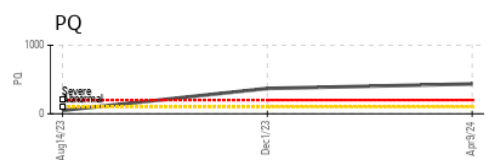
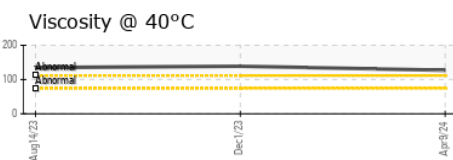
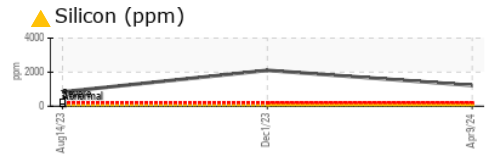
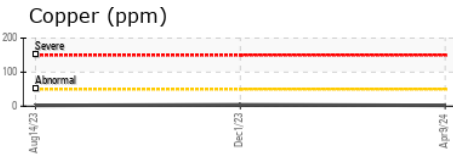
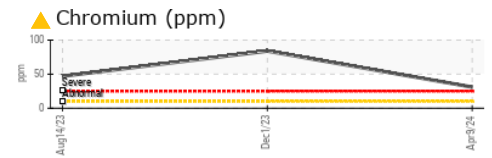
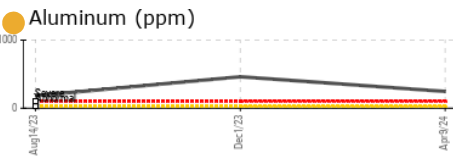
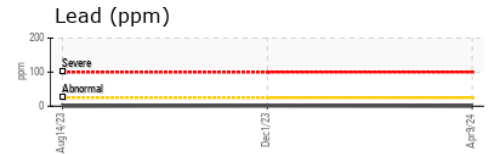
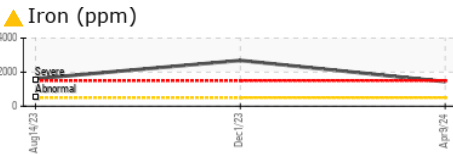
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	127	139	135

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					



GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0920825
Lab Number : 02629270
Unique Number : 5762402
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.