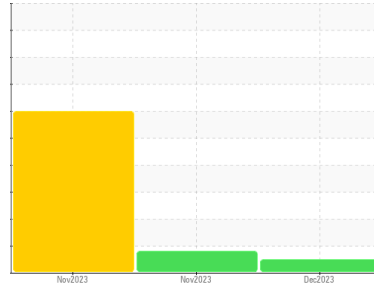




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id

140

Component

Hydraulic System

Fluid

PETRO CANADA DURON MOTOR OIL SAE 10W (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with 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		WC0888432	WC0872932	WC0872931
Sample Date	Client Info		27 Dec 2023	29 Nov 2023	29 Nov 2023
Machine Age	hrs	Client Info	0	0	0
Oil Age	hrs	Client Info	1299	0	0
Oil Changed	Client Info		Not Chngd	Changed	Changed
Sample Status			NORMAL	ATTENTION	SEVERE

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.1	NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >20	3	4	6
Chromium	ppm	ASTM D5185(m) >10	<1	<1	<1
Nickel	ppm	ASTM D5185(m) >10	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	0	0	0
Silver	ppm	ASTM D5185(m)	0	<1	<1
Aluminum	ppm	ASTM D5185(m) >10	<1	<1	<1
Lead	ppm	ASTM D5185(m) >10	<1	<1	<1
Copper	ppm	ASTM D5185(m) >75	3	3	3
Tin	ppm	ASTM D5185(m) >10	0	0	0
Antimony	ppm	ASTM D5185(m)	0	0	0
Vanadium	ppm	ASTM D5185(m)	0	0	0
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) 0	<1	<1	<1
Barium	ppm	ASTM D5185(m) 0	0	<1	<1
Molybdenum	ppm	ASTM D5185(m) 0	<1	<1	<1
Manganese	ppm	ASTM D5185(m) 0	0	0	0
Magnesium	ppm	ASTM D5185(m) 910	895	909	908
Calcium	ppm	ASTM D5185(m) 960	1048	1067	1073
Phosphorus	ppm	ASTM D5185(m) 1150	1110	1114	1119
Zinc	ppm	ASTM D5185(m) 1270	1252	1255	1262
Sulfur	ppm	ASTM D5185(m) 3481	2928	2734	2758
Lithium	ppm	ASTM D5185(m)	<1	<1	<1

CONTAMINANTS

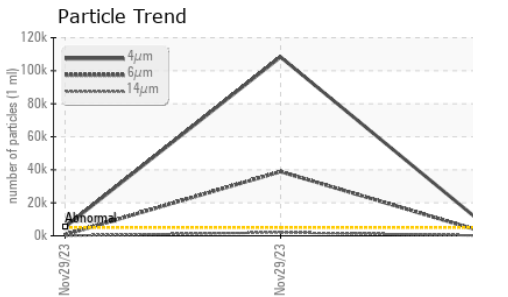
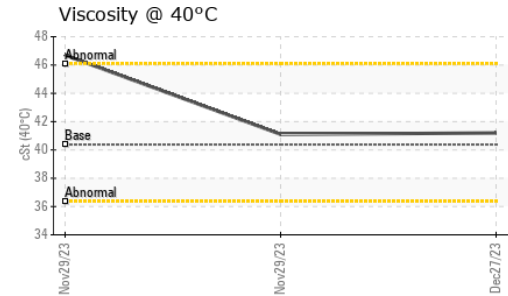
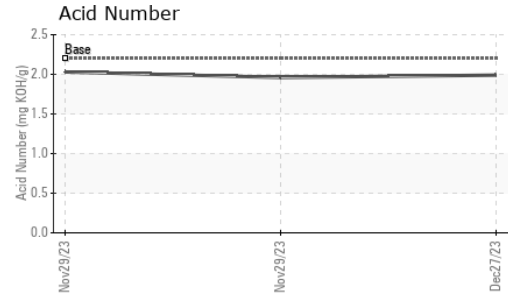
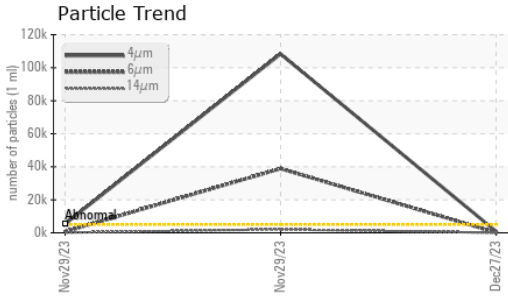
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Silicon	ppm	ASTM D5185(m) >20	5	7	18
Sodium	ppm	ASTM D5185(m)	<1	1	1
Potassium	ppm	ASTM D5185(m) >20	<1	0	0

FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	849	▲ 5370	● 108318
Particles >6µm	ASTM D7647	>1300	99	681	● 38908
Particles >14µm	ASTM D7647	>160	16	105	● 2062
Particles >21µm	ASTM D7647	>40	4	47	▲ 280
Particles >38µm	ASTM D7647	>10	1	11	8
Particles >71µm	ASTM D7647	>3	0	2	1
Oil Cleanliness	ISO 4406 (c)	>19/17/14	17/14/11	▲ 20/17/14	● 24/22/18



OIL ANALYSIS REPORT

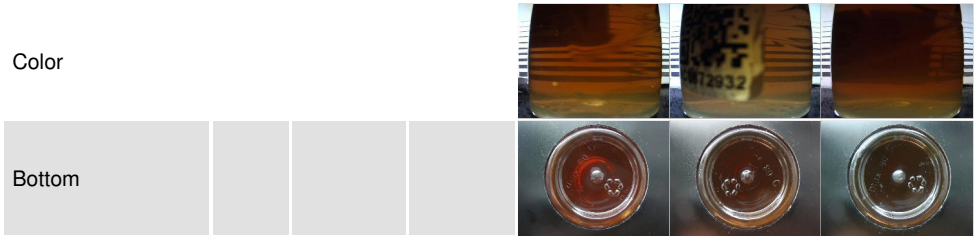


FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	2.2	1.99	1.96	2.03

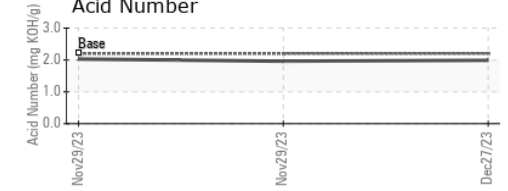
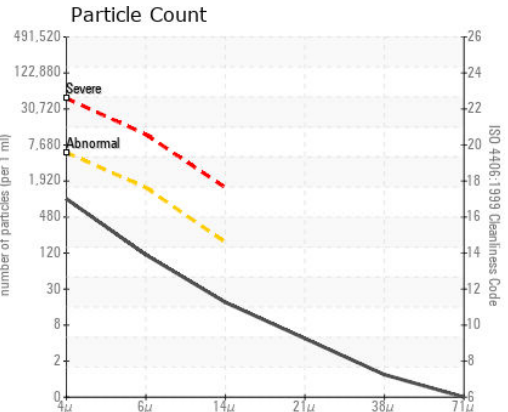
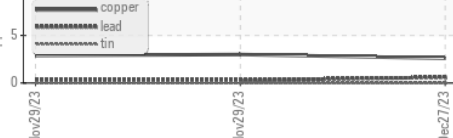
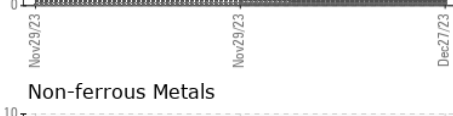
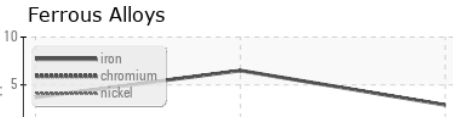
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	40.38	41.2	41.1	46.7

SAMPLE IMAGES



GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **RONI/IRON SHORE EXCAVATING LTD.**
Sample No. : WC0888432 **Received** : 08 Jan 2024 **100 MACINTOSH BLVD**
Lab Number : **02607019** **Diagnosed** : 09 Jan 2024 **VAUGHAN, ON**
Unique Number : 5708105 **Diagnostician** : Kevin Marson **CA L4K 4P3**
Test Package : MOBCE (Additional Tests: TAN Man) **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.