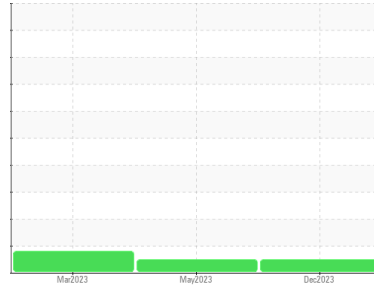




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area
RONI
 Machine Id
100-019

Component
Hydraulic System
 Fluid

PETRO CANADA HYDREX AW 46 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

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	WC0872886	LH0256639	LH0218899	
Sample Date	Client Info	20 Dec 2023	18 May 2023	22 Mar 2023	
Machine Age	hrs	Client Info	0	3546	1000
Oil Age	hrs	Client Info	0	0	0
Oil Changed	Client Info	Changed	Changed	Not Chngd	
Sample Status		NORMAL	NORMAL	ATTENTION	

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	5	4	4
Chromium	ppm ASTM D5185(m) >10	<1	2	<1
Nickel	ppm ASTM D5185(m) >10	<1	0	0
Titanium	ppm ASTM D5185(m)	0	0	<1
Silver	ppm ASTM D5185(m)	0	0	0
Aluminum	ppm ASTM D5185(m) >10	2	<1	2
Lead	ppm ASTM D5185(m) >10	<1	<1	<1
Copper	ppm ASTM D5185(m) >75	11	14	11
Tin	ppm ASTM D5185(m) >10	0	0	0
Antimony	ppm ASTM D5185(m)	0	0	<1
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	0	0	<1
Barium	ppm ASTM D5185(m) 0	0	0	0
Molybdenum	ppm ASTM D5185(m) 0	0	0	<1
Manganese	ppm ASTM D5185(m) 0	0	0	0
Magnesium	ppm ASTM D5185(m) 0	3	21	2
Calcium	ppm ASTM D5185(m) 50	92	54	108
Phosphorus	ppm ASTM D5185(m) 330	341	384	388
Zinc	ppm ASTM D5185(m) 430	424	420	428
Sulfur	ppm ASTM D5185(m) 760	832	856	845
Lithium	ppm ASTM D5185(m)	<1	<1	<1

CONTAMINANTS

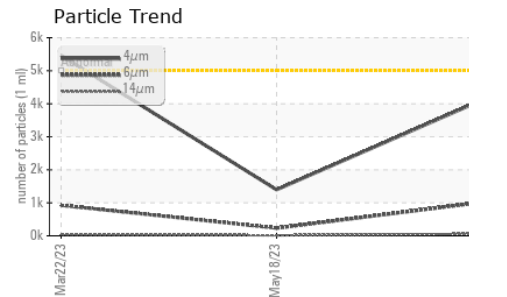
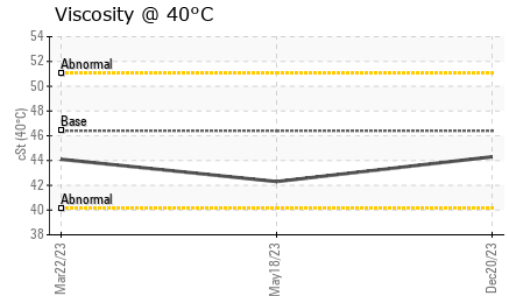
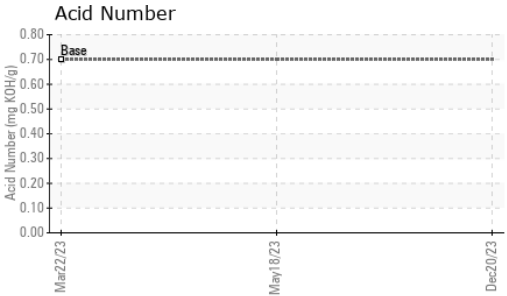
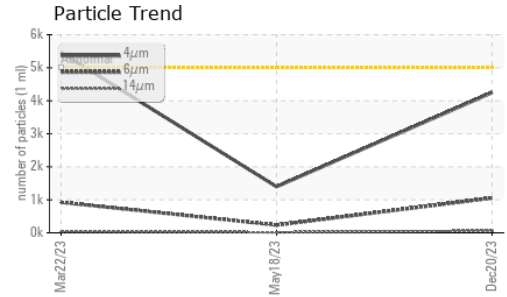
method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >20	4	2	4
Sodium	ppm ASTM D5185(m)	<1	0	<1
Potassium	ppm ASTM D5185(m) >20	0	<1	<1

FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >5000	4245	1396	▲ 5465
Particles >6µm	ASTM D7647 >1300	1055	234	923
Particles >14µm	ASTM D7647 >160	62	14	42
Particles >21µm	ASTM D7647 >40	14	5	11
Particles >38µm	ASTM D7647 >10	0	1	1
Particles >71µm	ASTM D7647 >3	0	1	0
Oil Cleanliness	ISO 4406 (c) >19/17/14	19/17/13	18/15/11	▲ 20/17/13



OIL ANALYSIS REPORT

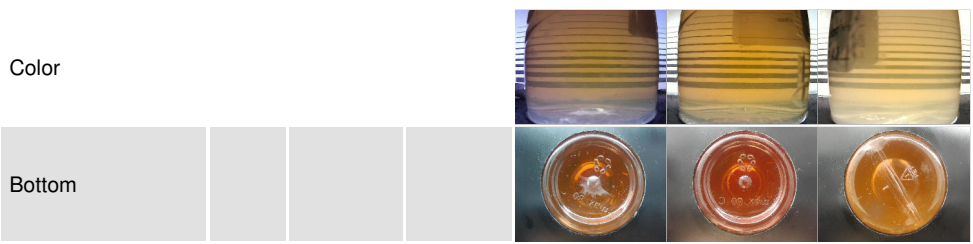


FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.70	0.50	---	---

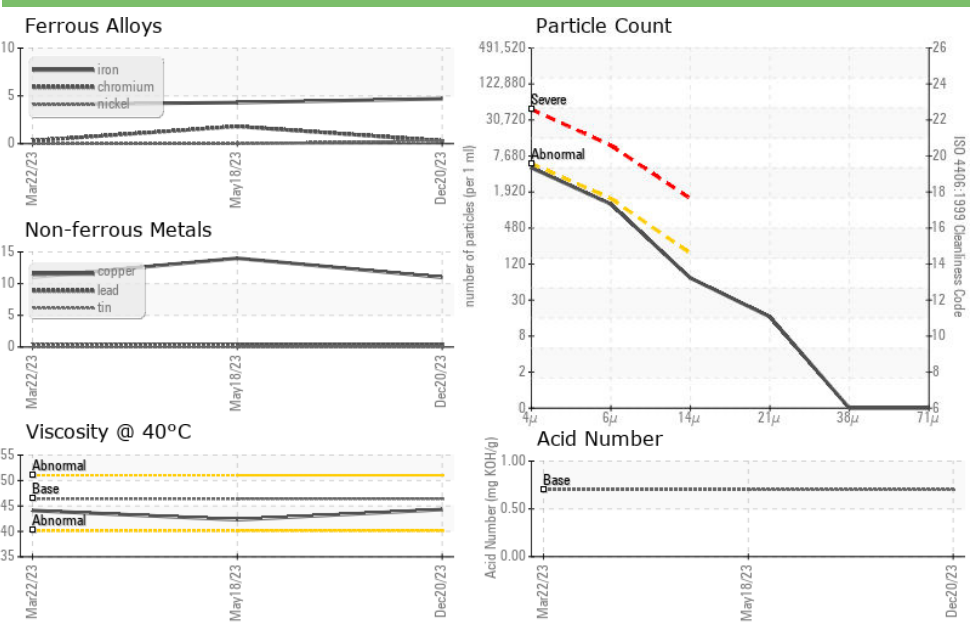
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	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)	46.4	44.3	42.3	44.1

SAMPLE IMAGES



GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **RONI/IRON SHORE EXCAVATING LTD.**
Sample No. : WC0872886 **Received** : 27 Dec 2023 **100 MACINTOSH BLVD**
Lab Number : 02605330 **Diagnosed** : 28 Dec 2023 **VAUGHAN, ON**
Unique Number : 5698415 **Diagnostician** : Wes Davis **CA L4K 4P3**
Test Package : MOBCE **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.