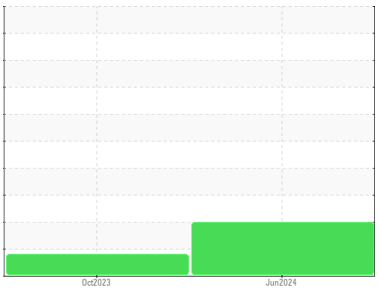
OIL ANALYSIS REPORT

Sample Rating Trend



VISUAL METAL

Area
ORIN CONTRACTORS
Machine Id
100-007
Component
Hydraulic System
Fluid
PETRO CANADA HYDREX AW 46 (--- GAL)

DIAGNOSIS

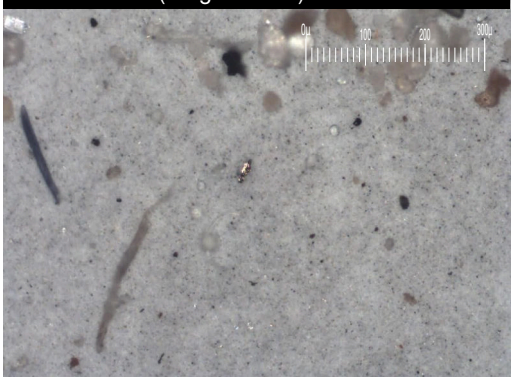
Recommendation
We advise that you check for visible metal particles in the oil. The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Wear
Light concentration of visible metal present.

Contamination
There is a light amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition
The AN level is acceptable for this fluid.

Particle Filter (Magn: 100 x)



SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0932654**	LH0275200	---
Sample Date		Client Info		**28 Jun 2024**	17 Oct 2023	---
Machine Age	hrs	Client Info		**0**	2632	---
Oil Age	hrs	Client Info		**0**	0	---
Oil Changed		Client Info		**Not Changd**	Changed	---
Sample Status				**ATTENTION**	ABNORMAL	---

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

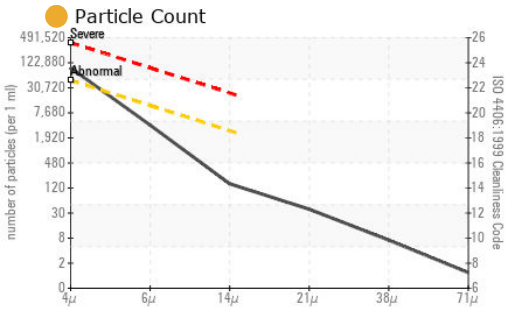
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>25	**5**	5	---
Chromium	ppm	ASTM D5185(m)	>10	**<1**	<1	---
Nickel	ppm	ASTM D5185(m)	>10	**<1**	<1	---
Titanium	ppm	ASTM D5185(m)		**0**	0	---
Silver	ppm	ASTM D5185(m)		**0**	<1	---
Aluminum	ppm	ASTM D5185(m)	>20	**5**	5	---
Lead	ppm	ASTM D5185(m)	>20	**<1**	<1	---
Copper	ppm	ASTM D5185(m)	>150	**16**	16	---
Tin	ppm	ASTM D5185(m)	>10	**0**	0	---
Antimony	ppm	ASTM D5185(m)		**0**	0	---
Vanadium	ppm	ASTM D5185(m)		**0**	0	---
Beryllium	ppm	ASTM D5185(m)		**0**	0	---
Cadmium	ppm	ASTM D5185(m)		**0**	0	---

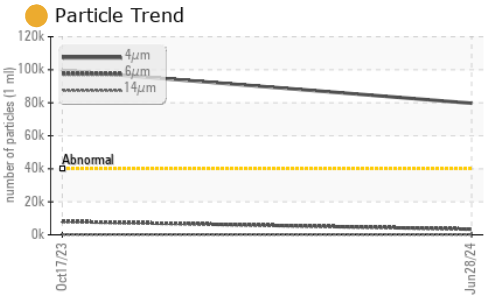
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	**1**	1	---
Barium	ppm	ASTM D5185(m)	0	**<1**	<1	---
Molybdenum	ppm	ASTM D5185(m)	0	**0**	0	---
Manganese	ppm	ASTM D5185(m)	0	**0**	0	---
Magnesium	ppm	ASTM D5185(m)	0	**9**	11	---
Calcium	ppm	ASTM D5185(m)	50	**244**	263	---
Phosphorus	ppm	ASTM D5185(m)	330	**357**	355	---
Zinc	ppm	ASTM D5185(m)	430	**452**	451	---
Sulfur	ppm	ASTM D5185(m)	760	**1066**	1088	---
Lithium	ppm	ASTM D5185(m)		**<1**	<1	---

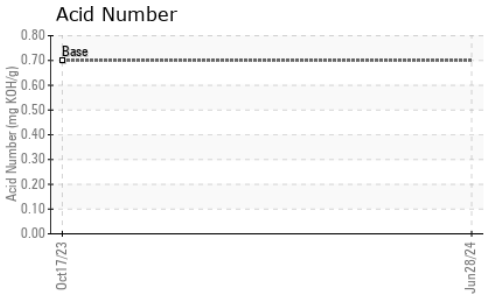
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>50	**2**	2	---
Sodium	ppm	ASTM D5185(m)		**<1**	<1	---
Potassium	ppm	ASTM D5185(m)	>20	**<1**	<1	---

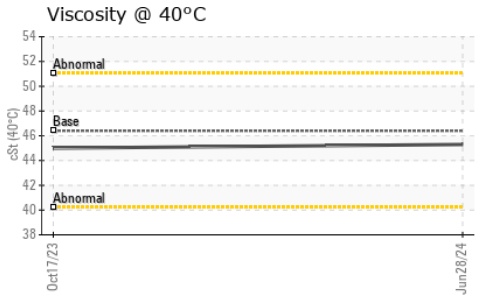
FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>40000	**79701**	99571	---
Particles >6µm		ASTM D7647	>10000	**3396**	8090	---
Particles >14µm		ASTM D7647	>2500	**134**	126	---
Particles >21µm		ASTM D7647	>640	**33**	28	---
Particles >38µm		ASTM D7647	>160	**6**	3	---
Particles >71µm		ASTM D7647	>40	**1**	0	---
Oil Cleanliness		ISO 4406 (c)	>22/20/18	**23/19/14**	24/20/14	---

OIL ANALYSIS REPORT





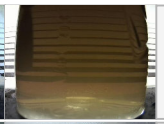
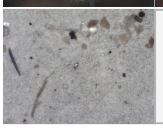




FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.70	**0.51**	---	---

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	▲ **VLITE**	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*	>0.1	**NEG**	NEG	---
Free Water	scalar	Visual*		**NEG**	NEG	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	46.4	**45.3**	45.0	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					*no image*
Bottom					*no image*
PrtFilter				*no image*	*no image*

ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0932654
Lab Number : 02647052
Unique Number : 5812604
Test Package : MOBCE (Additional Tests: Bottom, BottomAnalysis, FILTERPATCH, PrtFilter, TAN Mem)

Received : 10 Jul 2024
Tested : 12 Jul 2024
Diagnosed : 12 Jul 2024 - Kevin Marson

RONI/IRON SHORE EXCAVATING LTD.
100 MACINTOSH BLVD
VAUGHAN, ON
CA L4K 4P3
Contact: Service Team
service.team@roni.ca
T:
F:

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.