



# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**

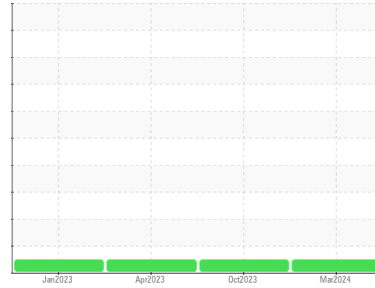


Area  
**ORIN CONTRACTORS**

Machine Id  
**195**

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		<b>WC0899469</b>	LH0275135	LH0232046
Sample Date	Client Info		<b>13 Mar 2024</b>	07 Oct 2023	18 Apr 2023
Machine Age	hrs	Client Info	<b>0</b>	0	1500
Oil Age	hrs	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>Not Changed</b>	Changed	Not Changed
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

## CONTAMINATION

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

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >25	<b>4</b>	7	8
Chromium	ppm	ASTM D5185(m) >10	<b>&lt;1</b>	2	2
Nickel	ppm	ASTM D5185(m) >10	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	<1	<1
Lead	ppm	ASTM D5185(m) >20	<b>0</b>	<1	0
Copper	ppm	ASTM D5185(m) >150	<b>6</b>	8	8
Tin	ppm	ASTM D5185(m) >10	<b>0</b>	0	<1
Antimony	ppm	ASTM D5185(m)	<b>0</b>	0	<1
Vanadium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Beryllium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185(m)	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 0	<b>&lt;1</b>	<1	<1
Barium	ppm	ASTM D5185(m) 0	<b>0</b>	<1	0
Molybdenum	ppm	ASTM D5185(m) 0	<b>0</b>	0	<1
Manganese	ppm	ASTM D5185(m) 0	<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185(m) 0	<b>4</b>	8	6
Calcium	ppm	ASTM D5185(m) 50	<b>51</b>	85	93
Phosphorus	ppm	ASTM D5185(m) 330	<b>347</b>	340	361
Zinc	ppm	ASTM D5185(m) 430	<b>433</b>	408	392
Sulfur	ppm	ASTM D5185(m) 760	<b>830</b>	894	963
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	1	<1

## CONTAMINANTS

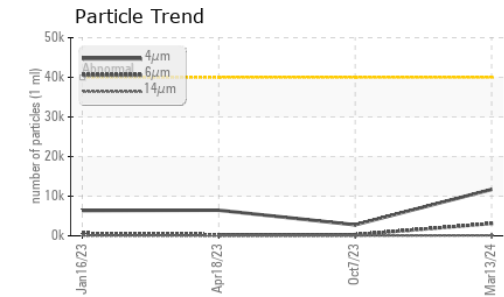
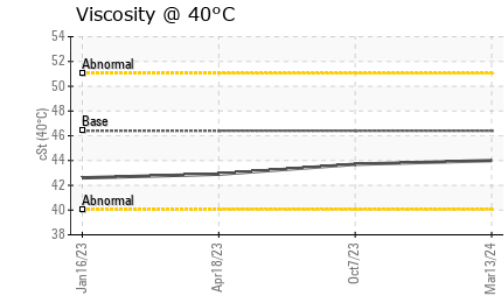
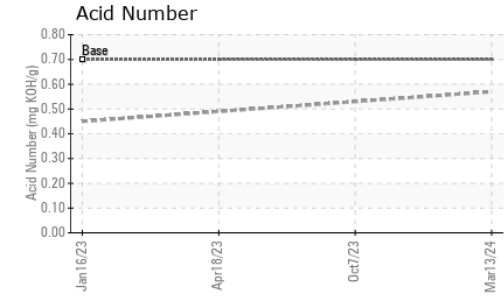
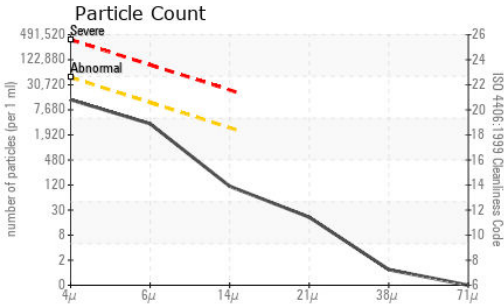
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >50	<b>0</b>	2	2
Sodium	ppm	ASTM D5185(m)	<b>&lt;1</b>	2	1
Potassium	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	<1	1

## FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>40000	<b>11706</b>	2777	6457
Particles >6µm	ASTM D7647	>10000	<b>3110</b>	256	256
Particles >14µm	ASTM D7647	>2500	<b>99</b>	42	23
Particles >21µm	ASTM D7647	>640	<b>18</b>	12	9
Particles >38µm	ASTM D7647	>160	<b>1</b>	0	1
Particles >71µm	ASTM D7647	>40	<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c)	>22/20/18	<b>21/19/14</b>	19/15/13	20/15/12



# OIL ANALYSIS REPORT



FLUID DEGRADATION	method	limit/base	current	history1	history2
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Acid Number (AN)	mg KOH/g	ASTM D974*	0.70	<b>0.57</b>	---	---
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VISUAL	method	limit/base	current	history1	history2
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White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	VLITE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	Visual*	NONE	<b>VLITE</b>	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	<b>NEG</b>	NEG	NEG
Free Water	scalar	Visual*		<b>NEG</b>	NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
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Visc @ 40°C	cSt	ASTM D7279(m)	46.4	<b>44.0</b>	43.7	42.9
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SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color					
Bottom					
PrtFilter	<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid #ccc; padding: 5px; width: 30%;">no image</div> <div style="border: 1px solid #ccc; padding: 5px; width: 30%;">no image</div> <div style="border: 1px solid #ccc; padding: 5px; width: 30%; background-color: #ccc;"></div> </div>				



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0899469  
**Lab Number** : 02624338  
**Unique Number** : 5749457  
**Test Package** : MOBCE ( Additional Tests: TAN Man )

**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: