



# OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Area

[001315-1]

Machine Id

HILL PHOENIX COSTCO #1169 MISSISSAUGA RACK "C" HILL PHOENIX RACK MOPDEL #69454 (S/N 41000033076)

Component

Reciprocating Compressor

Fluid

EMKARATE RL 32H (--- GAL)

## RECOMMENDATION

Resample at the next service interval to monitor. Please note that there was insufficient sample submitted to perform all assigned tests.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0907697</b>	WC0672574	WC0556256
Sample Date		Client Info		<b>09 Feb 2024</b>	22 Feb 2022	28 Feb 2021
Machine Age	yrs	Client Info		<b>10</b>	7	10
Oil Age	yrs	Client Info		<b>10</b>	7	1
Filter Age	yrs	Client Info		<b>1</b>	1	1
Oil Changed		Client Info		<b>N/A</b>	N/A	N/A
Filter Changed		Client Info		<b>N/A</b>	Changed	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>50	<b>&lt;1</b>	<1	1
Chromium	ppm	ASTM D5185(m)	>10	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)		<b>0</b>	0	0
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185(m)	>25	<b>&lt;1</b>	<1	<1
Lead	ppm	ASTM D5185(m)	>25	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185(m)	>50	<b>4</b>	3	6
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

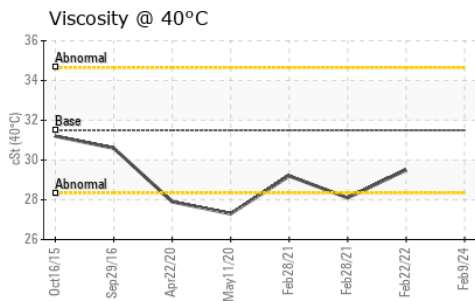
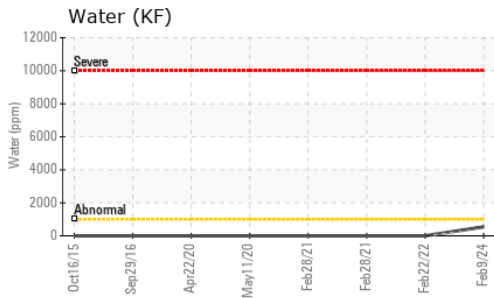
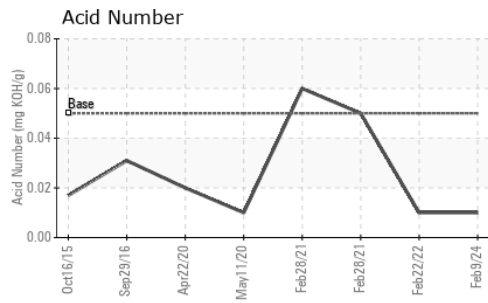
Insufficient sample was received to conduct all the routine laboratory tests.

Silicon	ppm	ASTM D5185(m)	>25	<b>2</b>	2	2
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b>	<1	<1
Water	%	ASTM D6304*	>0.1	<b>0.054</b>	---	---
ppm Water	ppm	ASTM D6304*	>1000	<b>543</b>	---	---
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	Visual*	NONE	<b>NONE</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>	FREON	FREON

## FLUID CONDITION

The condition of the oil is acceptable for the time in service (unconfirmed).

Sodium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Boron	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	<1	<1
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Manganese	ppm	ASTM D5185(m)		<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m)	0	<b>0</b>	0	<1
Calcium	ppm	ASTM D5185(m)	0	<b>0</b>	0	<1
Phosphorus	ppm	ASTM D5185(m)	5	<b>2</b>	2	<1
Zinc	ppm	ASTM D5185(m)	10	<b>&lt;1</b>	<1	<1
Sulfur	ppm	ASTM D5185(m)	50	<b>0</b>	1	10
Acid Number (AN)	mg KOH/g	ASTM D974*	.05	<b>0.01</b>	0.01	0.05
Visc @ 40°C	cSt	ASTM D7279(m)	31.5	<b>---</b>	29.5	28.1



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0907697  
**Lab Number** : **02617288**  
**Unique Number** : 5734398  
**Test Package** : TEST ( Additional Tests: ICP, KF, KV40, TAN Man )

**Received** : 21 Feb 2024  
**Tested** : 27 Feb 2024  
**Diagnosed** : 27 Feb 2024 - Kevin Marson

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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.