



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[001315-1]
 Machine Id
COSTCO #1169 MISSISSAUGA RACK "D" HILL PHOENIX RACK MOPDEL #69454 (S/N 410000033077)
 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		WC0907691	WC0463197	WC0459564
Sample Date		Client Info		09 Feb 2024	11 May 2020	22 Apr 2020
Machine Age	yrs	Client Info		10	0	6
Oil Age	yrs	Client Info		10	0	4
Filter Age	yrs	Client Info		1	0	2
Oil Changed		Client Info		N/A	Changed	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>50	<1	<1	<1
Chromium	ppm	ASTM D5185(m)	>10	0	0	0
Nickel	ppm	ASTM D5185(m)		0	0	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	<1	0
Aluminum	ppm	ASTM D5185(m)	>25	<1	<1	<1
Lead	ppm	ASTM D5185(m)	>25	<1	0	0
Copper	ppm	ASTM D5185(m)	>50	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>15	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE

CONTAMINATION

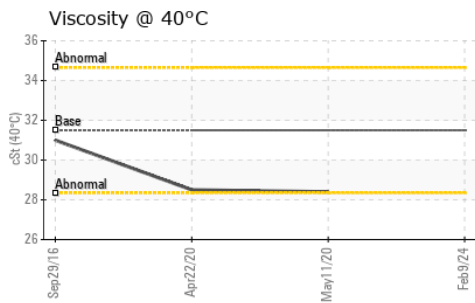
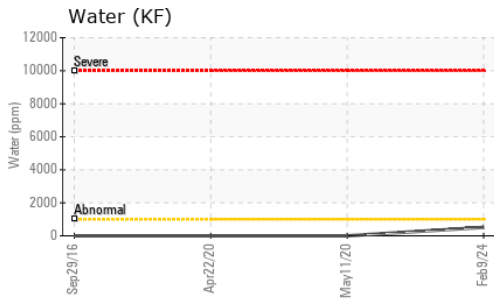
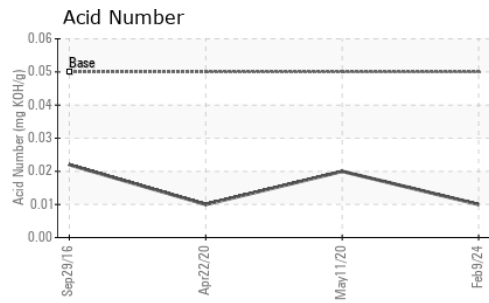
Insufficient sample was received to conduct all the routine laboratory tests.

Silicon	ppm	ASTM D5185(m)	>25	2	2	1
Potassium	ppm	ASTM D5185(m)	>20	1	<1	<1
Water	%	ASTM D6304*	>0.1	0.051	---	---
ppm Water	ppm	ASTM D6304*	>1000	513	---	---
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	FREON	FREON

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		0	0	0
Boron	ppm	ASTM D5185(m)	0	<1	<1	<1
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	0	0	0	0
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)	0	0	0	0
Calcium	ppm	ASTM D5185(m)	0	0	<1	<1
Phosphorus	ppm	ASTM D5185(m)	5	0	0	<1
Zinc	ppm	ASTM D5185(m)	10	<1	<1	<1
Sulfur	ppm	ASTM D5185(m)	50	0	9	4
Acid Number (AN)	mg KOH/g	ASTM D974*	.05	0.01	0.02	0.01
Visc @ 40°C	cSt	ASTM D7279(m)	31.5	---	28.4	28.5



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0907691 **Received** : 21 Feb 2024
Lab Number : **02617292** **Tested** : 27 Feb 2024
Unique Number : 5734402 **Diagnosed** : 27 Feb 2024 - Kevin Marson
Test Package : TEST (Additional Tests: ICP, KF, KV40, TAN Man)

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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.