



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

[001315-1]

Machine Id

COSTCO #1169 MISSISSAUGA RACK "B" HILL PHOENIX RACK MOPDEL #69454 (S/N 410000033075 U27892 TO U27893)

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		WC0907707	WC0672575	WC0672579
Sample Date		Client Info		09 Feb 2024	22 Feb 2022	22 Feb 2022
Machine Age	yrs	Client Info		10	7	7
Oil Age	yrs	Client Info		10	7	7
Filter Age	yrs	Client Info		1	1	1
Oil Changed		Client Info		N/A	Changed	Changed
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	0	0
Aluminum	ppm	ASTM D5185(m)	>25	<1	<1	<1
Lead	ppm	ASTM D5185(m)	>25	0	0	<1
Copper	ppm	ASTM D5185(m)	>50	3	<1	4
Tin	ppm	ASTM D5185(m)	>15	0	<1	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

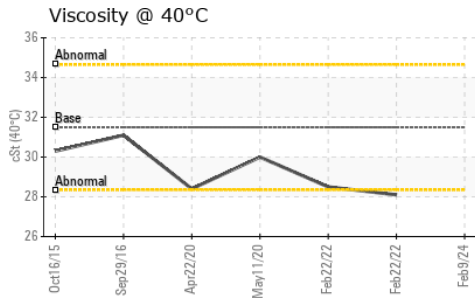
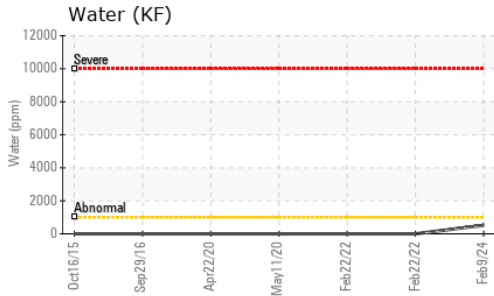
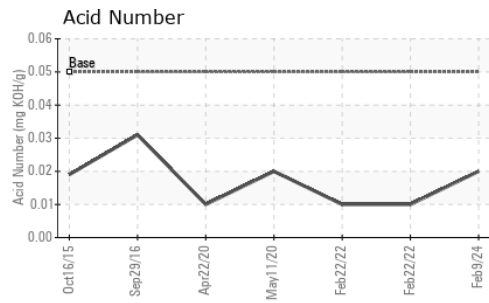
Insufficient sample was received to conduct all the routine laboratory tests.

Silicon	ppm	ASTM D5185(m)	>25	2	2	2
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Water	%	ASTM D6304*	>0.1	0.051	---	---
ppm Water	ppm	ASTM D6304*	>1000	519	---	---
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	0	0
Phosphorus	ppm	ASTM D5185(m)	5	0	<1	2
Zinc	ppm	ASTM D5185(m)	10	<1	<1	<1
Sulfur	ppm	ASTM D5185(m)	50	0	4	2
Acid Number (AN)	mg KOH/g	ASTM D974*	.05	0.02	0.01	0.01
Visc @ 40°C	cSt	ASTM D7279(m)	31.5	---	28.1	28.5



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0907707
Lab Number : 02617291
Unique Number : 5734401
Test Package : TEST (Additional Tests: ICP, KF, KV40, TAN Man)

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

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.

Neelands Group Limited
 4131 Palladium Way
 Burlington, ON
 CA L7M 0V9
 Contact: Mike Squires
 mike.squires@neelands.com
 T: (905)975-0794
 F: (905)334-7090