



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

[MC-001345-1]

Machine Id

COPELAND CSTCO ETOBICOKE HUSSMAN RACK "B" (S/N PS2-039-95 RODEL S2V2-KTKTIL)

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		WC0907736	WC939636	---
Sample Date		Client Info		12 Dec 2023	26 Oct 2015	---
Machine Age	yrs	Client Info		25	20	---
Oil Age	yrs	Client Info		25	1	---
Filter Age	yrs	Client Info		1	0	---
Oil Changed		Client Info		N/A	Changed	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>50	2	33	---
Chromium	ppm	ASTM D5185(m)	>10	0	<1	---
Nickel	ppm	ASTM D5185(m)		<1	<1	---
Titanium	ppm	ASTM D5185(m)		0	0	---
Silver	ppm	ASTM D5185(m)		0	0	---
Aluminum	ppm	ASTM D5185(m)	>25	<1	0	---
Lead	ppm	ASTM D5185(m)	>25	<1	<1	---
Copper	ppm	ASTM D5185(m)	>50	<1	5	---
Tin	ppm	ASTM D5185(m)	>15	0	<1	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
White Metal	scalar	Visual*	NONE	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	---

CONTAMINATION

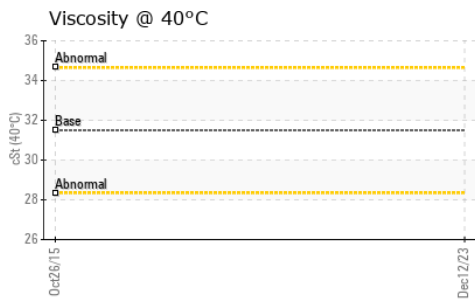
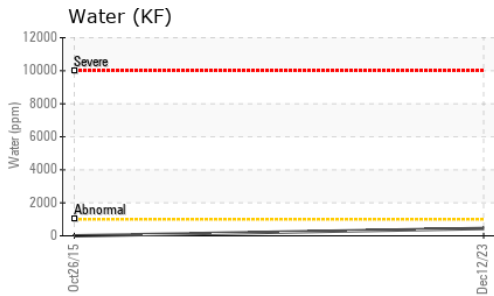
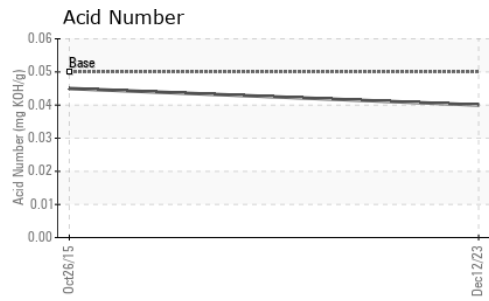
Insufficient sample was received to conduct all the routine laboratory tests.

Silicon	ppm	ASTM D5185(m)	>25	<1	2	---
Potassium	ppm	ASTM D5185(m)	>20	<1	0	---
Water	%	ASTM D6304*	>0.1	0.044	---	---
ppm Water	ppm	ASTM D6304*	>1000	447	---	---
Silt	scalar	Visual*	NONE	NONE	NONE	---
Debris	scalar	Visual*	NONE	NONE	LIGHT	---
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	---
Appearance	scalar	Visual*	NORML	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	NORML	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		0	2	---
Boron	ppm	ASTM D5185(m)	0	<1	<1	---
Barium	ppm	ASTM D5185(m)	0	0	0	---
Molybdenum	ppm	ASTM D5185(m)	0	0	0	---
Manganese	ppm	ASTM D5185(m)		0	<1	---
Magnesium	ppm	ASTM D5185(m)	0	0	0	---
Calcium	ppm	ASTM D5185(m)	0	5	<1	---
Phosphorus	ppm	ASTM D5185(m)	5	<1	1	---
Zinc	ppm	ASTM D5185(m)	10	<1	5	---
Sulfur	ppm	ASTM D5185(m)	50	0	98	---
Acid Number (AN)	mg KOH/g	ASTM D974*	.05	0.04	0.045	---
Visc @ 40°C	cSt	ASTM D7279(m)	31.5	---	30.5	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0907736 **Received** : 21 Feb 2024
Lab Number : **02617281** **Tested** : 27 Feb 2024
Unique Number : 5734391 **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.*