



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
NEWMARKET
Machine Id
HUSSMAN COSTCO #510 RACK A (S/N 1040829200205392)
Component
Reciprocating Compressor
Fluid
EMKARATE RL 32H (10 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0912817	WC0684394	WC0672540
Sample Date		Client Info		20 Mar 2024	09 Mar 2023	07 Mar 2022
Machine Age	yrs	Client Info		20	20	20
Oil Age	yrs	Client Info		2	2	1
Filter Age	yrs	Client Info		0	1	1
Oil Changed		Client Info		Changed	N/A	Filtered
Filter Changed		Client Info		Changed	N/A	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184*		0	0	0
Iron	ppm	ASTM D5185(m)	>50	1	4	7
Chromium	ppm	ASTM D5185(m)	>10	0	0	0
Nickel	ppm	ASTM D5185(m)		0	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	0	0
Aluminum	ppm	ASTM D5185(m)	>25	0	<1	<1
Lead	ppm	ASTM D5185(m)	>25	0	0	0
Copper	ppm	ASTM D5185(m)	>50	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>15	0	<1	<1
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

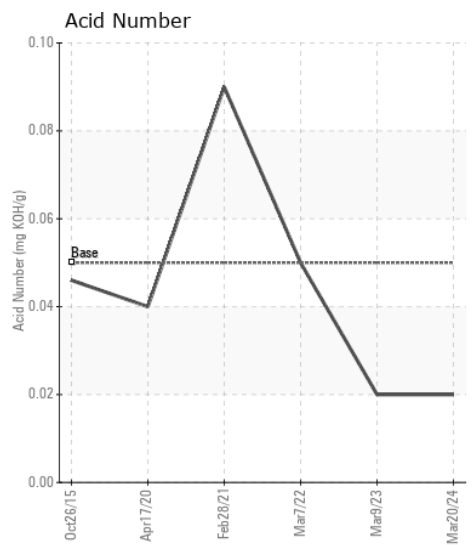
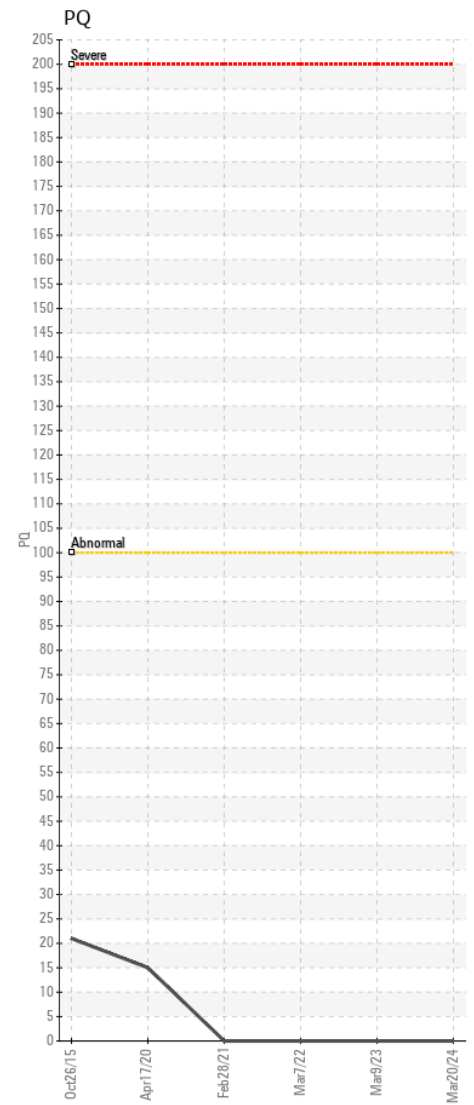
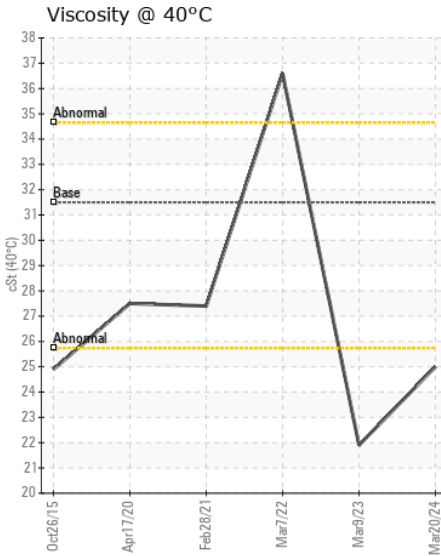
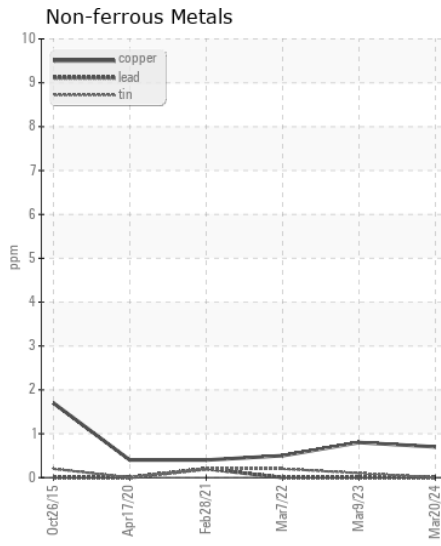
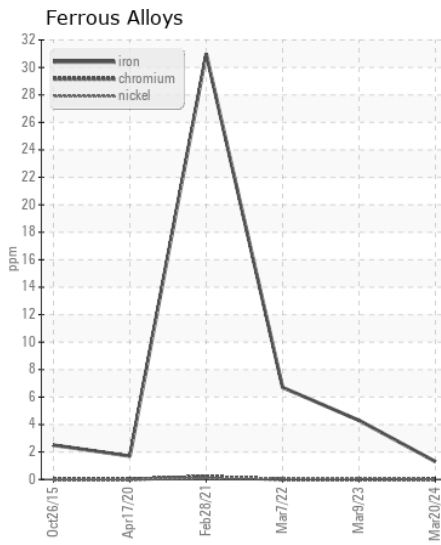
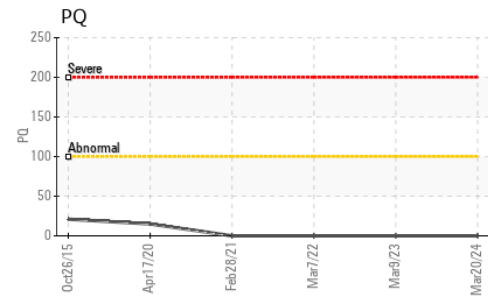
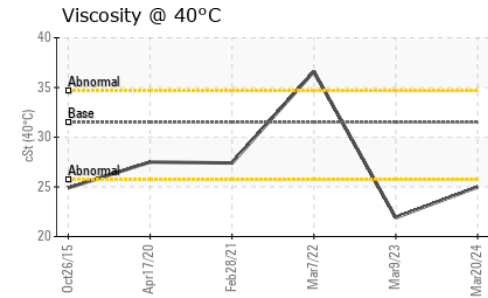
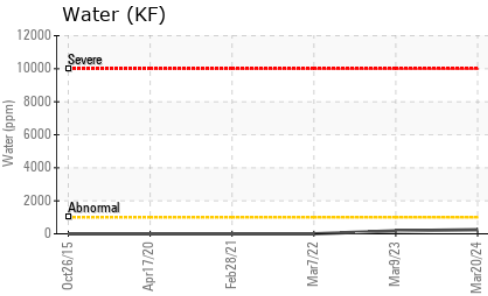
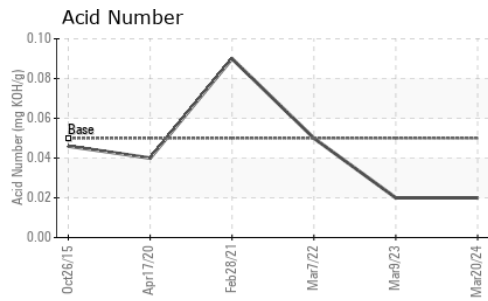
The water content is negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	0	3	1
Potassium	ppm	ASTM D5185(m)	>20	0	<1	<1
Water	%	ASTM D6304*	>0.1	0.024	0.018	---
ppm Water	ppm	ASTM D6304*	>1000	249	181.8	---
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	VLITE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	FREON	FREON
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	NEG

FLUID CONDITION

The oil viscosity is lower than typical, possibly indicating the addition of lighter grade oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185(m)		0	<1	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	1	0	0
Zinc	ppm	ASTM D5185(m)	10	7	8	16
Sulfur	ppm	ASTM D5185(m)	50	6	5	5
Acid Number (AN)	mg KOH/g	ASTM D974*	.05	0.02	0.02	0.05
Visc @ 40°C	cSt	ASTM D7279(m)	31.5	25.0	21.9	36.6



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0912817 **Received** : 27 Mar 2024
Lab Number : 02624976 **Tested** : 28 Mar 2024
Unique Number : 5750095 **Diagnosed** : 28 Mar 2024 - Kevin Marson
Test Package : IND 2 (Additional Tests: KF)

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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.