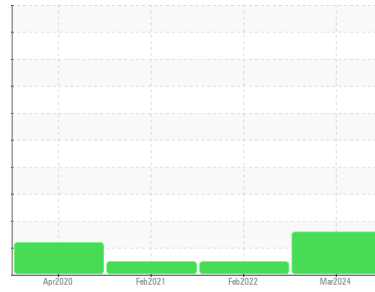




OIL ANALYSIS REPORT

Sample Rating Trend



WATER



Area

[MC-001317-1]

Machine Id

STC200-IT150-3MT25-3 COSTCO #1248 RACK A (S/N DWICU-HG-APD)

Component

Reciprocating Compressor

Fluid

BITZER BSE 85K (12 GAL)

DIAGNOSIS

Recommendation

The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

There is a trace of moisture present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0907729	WC0307151	WC0438178
Sample Date	Client Info		13 Mar 2024	09 Feb 2022	11 Feb 2021
Machine Age	mths	Client Info	72	6	5
Oil Age	mths	Client Info	72	0	0
Oil Changed	Client Info		Not Chngd	N/A	Not Chngd
Sample Status			MARGINAL	NORMAL	NORMAL

WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184*		0	0	0
Iron	ppm	ASTM D5185(m) >50	10	34	50
Chromium	ppm	ASTM D5185(m) >10	0	<1	<1
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	<1	3	5
Lead	ppm	ASTM D5185(m) >25	0	<1	<1
Copper	ppm	ASTM D5185(m) >50	1	4	7
Tin	ppm	ASTM D5185(m) >15	0	2	2
Antimony	ppm	ASTM D5185(m)	0	0	<1
Vanadium	ppm	ASTM D5185(m)	0	0	0
Beryllium	ppm	ASTM D5185(m)	0	0	0
Cadmium	ppm	ASTM D5185(m)	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 0	<1	1	<1
Barium	ppm	ASTM D5185(m) 0	<1	0	0
Molybdenum	ppm	ASTM D5185(m) 0	0	0	0
Manganese	ppm	ASTM D5185(m) 0	0	<1	<1
Magnesium	ppm	ASTM D5185(m) 0	0	<1	<1
Calcium	ppm	ASTM D5185(m) 0	0	<1	1
Phosphorus	ppm	ASTM D5185(m) 1200	1002	1079	1032
Zinc	ppm	ASTM D5185(m) 0	2	4	6
Sulfur	ppm	ASTM D5185(m) 0	4	3	14
Lithium	ppm	ASTM D5185(m)	<1	0	<1

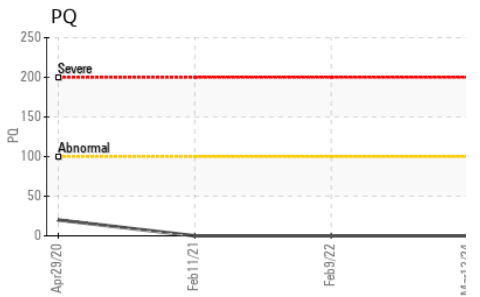
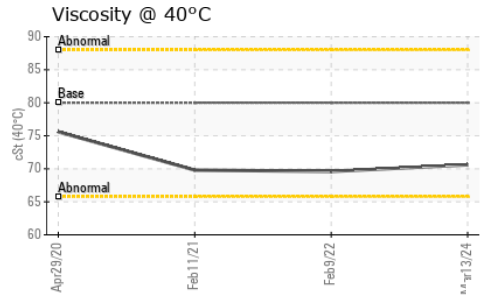
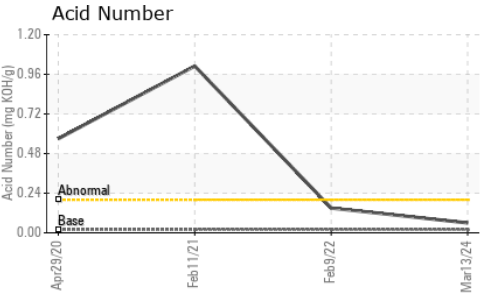
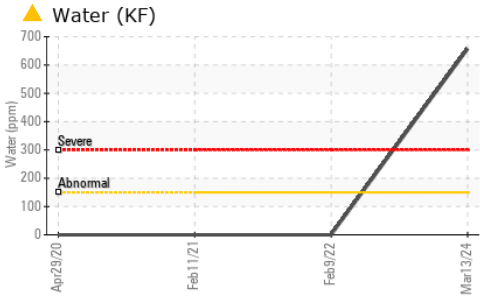
CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >25	<1	3	4
Sodium	ppm	ASTM D5185(m)	<1	<1	1
Potassium	ppm	ASTM D5185(m) >20	<1	<1	<1
Water	%	ASTM D6304* >0.015	▲ 0.065	---	---
ppm Water	ppm	ASTM D6304* >150	▲ 657	---	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974* 0.02	0.06	0.15	1.01

OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	LIGHT	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	FREON
Emulsified Water	scalar	Visual*	>0.015	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	80	70.6	69.6

SAMPLE IMAGES	method	limit/base	current	history1	history2
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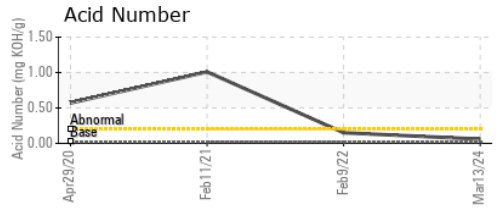
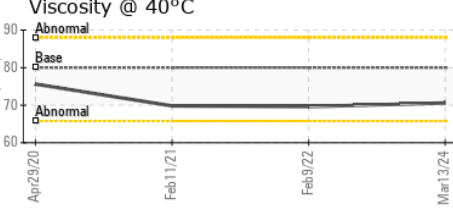
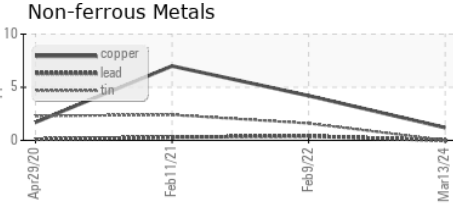
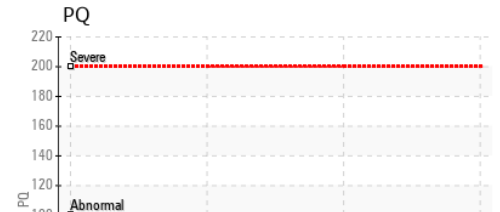
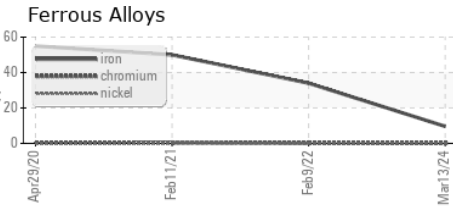
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GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0907729 **Received** : 19 Apr 2024
Lab Number : 02630241 **Tested** : 23 Apr 2024
Unique Number : 5763373 **Diagnosed** : 23 Apr 2024 - Kevin Marson
Test Package : IND 2 (Additional Tests: KF)

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

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.