

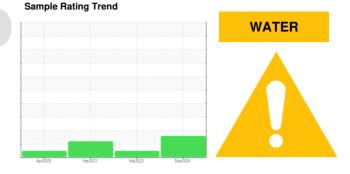
# **OIL ANALYSIS REPORT**

[MC-001317-1]

STC200-IT150-0MT200 COSTCO #1248 RACK D (S/N HRI-CU-HG-APD5)

**Reciprocating Compressor** 

**BITZER BSE 85K (9 GAL)** 



# **DIAGNOSIS**

### Recommendation

We advise that you check for the source of water entry. Check seals and/or filters for points of contaminant entry. 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 advise that you use off-line filtration with water adsorbent filters to attempt to remove the water from this oil. We recommend an early resample to monitor this condition.

## Wear

All component wear rates are normal.

## Contamination

There is a moderate concentration of water present in the oil.

## **Fluid Condition**

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0907727	WC0668553	WC0438176
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 Changd	N/A	Not Changd
Sample Status				ABNORMAL	NORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		0	0	0
Iron	ppm	ASTM D5185(m)	>50	1	2	3
Chromium	ppm	ASTM D5185(m)	>10	0	0	0
Nickel	ppm	ASTM D5185(m)		0	0	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	0	<1
Aluminum	ppm	ASTM D5185(m)	>25	0	<1	<1
Lead	ppm	ASTM D5185(m)	>25	0	0	<1
Copper	ppm	ASTM D5185(m)	>50	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>15	0	<1	<1
Antimony	ppm	ASTM D5185(m)		0	0	0
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	0	0	0
Molybdenum	ppm	ASTM D5185(m)	0	0	0	0
Manganese	ppm	ASTM D5185(m)	0	0	0	0
Magnesium	ppm	ASTM D5185(m)	0	0	0	<1
Calcium	ppm	ASTM D5185(m)	0	0	<1	<1
Phosphorus	ppm	ASTM D5185(m)	1200	978	1039	1012
Zinc	ppm	ASTM D5185(m)	0	1	<1	1
Sulfur	ppm	ASTM D5185(m)	0	7	4	12
Lithium	ppm	ASTM D5185(m)		<1	0	<1
CONTAMINANTS	;	method	limit/base	current	history1	history2
			<b>&gt;25</b>	5	3	3
Silicon	ppm	ASTM D5185(m)	725	•	0	0
Silicon Sodium	ppm ppm	ASTM D5185(m) ASTM D5185(m)	725	0	0	<1
			>20			
Sodium	ppm	ASTM D5185(m)	>20	0	0	<1
Sodium Potassium	ppm ppm	ASTM D5185(m) ASTM D5185(m)	>20	0 <1	0 <1	<1 <1
Sodium Potassium Water	ppm ppm % ppm	ASTM D5185(m) ASTM D5185(m) ASTM D6304*	>20 >0.015	0 <1 ▲ 0.061	0 <1	<1 <1 

Acid Number (AN)

mg KOH/g ASTM D974\* 0.02

0.61

0.03

0.74



# **OIL ANALYSIS REPORT**







Laboratory Sample No. Lab Number Unique Number : 5763377

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : WC0907727

: 02630245

Received **Tested** Diagnosed

: 19 Apr 2024 : 24 Apr 2024

: 25 Apr 2024 - Kevin Marson

Test Package : IND 2 (Additional Tests: KF, TAN MAN) 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