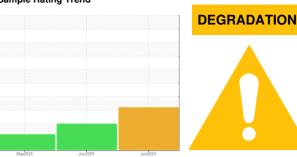


## **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id

# SYSTEM OIL

Componen

Circulating Reciprocating Compressor

BITZER BSE 85K (--- LTR)

## DIAGNOSIS

#### Recommendation

The component was not specified so we have determined that this is a reciprocating compressor based on the fluid type in use. Please specify the correct component type on your next sample. We recommend that you drain the oil from the component if this has not already been done. Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

#### Wear

All component wear rates are normal.

## Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. The system and fluid cleanliness is acceptable.

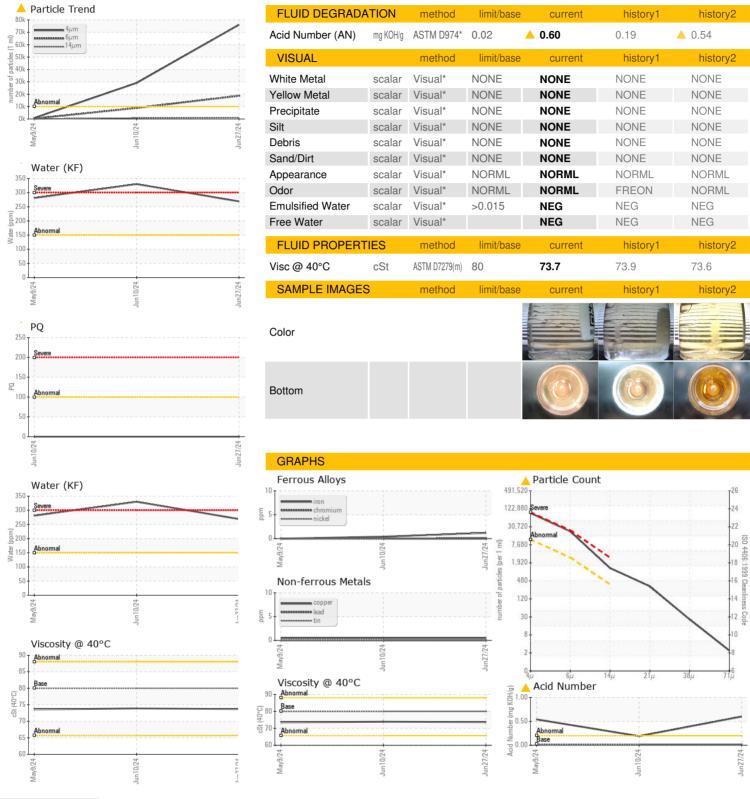
### Fluid Condition

The AN level is above the recommended limit. The oil is no longer serviceable.

May2024 Jun2024 Jun2024						
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0871110	WC0871112	WC0871114
Sample Date		Client Info		27 Jun 2024	10 Jun 2024	09 May 2024
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		0	0	
Iron	ppm	ASTM D5185(m)	>50	1	<1	0
Chromium	ppm	ASTM D5185(m)	>10	0	0	0
Nickel	ppm	ASTM D5185(m)		<1	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	0	0
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	0	0
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	0	1
Phosphorus	ppm	ASTM D5185(m)	1200	997	1022	1042
Zinc	ppm	ASTM D5185(m)	0	<1	1	2
Sulfur	ppm	ASTM D5185(m)	0	4	15	25
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	0	0	<1
Sodium	ppm	ASTM D5185(m)		0	<1	<1
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Water	%	ASTM D6304*	>0.015	0.026	0.032	0.028
ppm Water	ppm	ASTM D6304*	>150	269	330	281
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
		4 OTL 4 DEC 45	>10000		A 00000	787
Particles >4μm		ASTM D7647	>10000	<b>^</b> 76004	<u>^</u> 29082	707
Particles >4μm Particles >6μm		ASTM D7647 ASTM D7647	>2500	▲ 76004 ▲ 18699	▲ 8888	254
· ·					▲ 8888 ▲ 739	
Particles >6μm		ASTM D7647	>2500	<u> </u>	▲ 8888	254 26 8
Particles >6μm Particles >14μm		ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>2500 >320 >80 >20	▲ 18699 ▲ 1121 ▲ 277 22	▲ 8888 ▲ 739 ▲ 203 9	254 26 8 2
Particles >6µm Particles >14µm Particles >21µm		ASTM D7647 ASTM D7647 ASTM D7647	>2500 >320 >80 >20	▲ 18699 ▲ 1121 ▲ 277	▲ 8888 ▲ 739 ▲ 203	254 26 8



## **OIL ANALYSIS REPORT**







Laboratory : V Sample No. : V Lab Number : 0

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

lo.: WC0871110 Received: 03 Jul 2024

 Sample No.
 : WC0871110
 Received
 : 03 Jul 2024
 :

 Lab Number
 : 02645265
 Tested
 : 05 Jul 2024

 Unique Number
 : 5802804
 Diagnosed
 : 05 Jul 2024 - Kevin Marson

Test Package: IND 2 (Additional Tests: KF, PQ, PRTCOUNT, 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.

**CONESTOGA COLD STORAGE** 

2660 MEADOWPINE BLVD,, DOOR 57, CALL EXT. 2317 MISSISSAUGA, ON

CA L5N 7E6 Contact: Jeremy Koziol jkoziol@coldstorage.com T: (519)748-4086

F: (905)567-1844