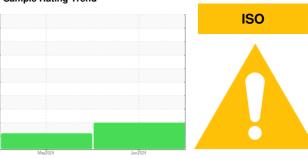


# **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id

# SYSTEM OIL

Component
Circulating Reciprocating Compressor

BITZER BSE 85K (--- LTR)

## **DIAGNOSIS**

#### Recommendation

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

#### Wear

All component wear rates are normal.

### Contamination

There is a moderate amount of particulates (2 to 100 microns in size) present in the oil. The water content is negligible.

### **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.

			may.or.	ounter!		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0871112	WC0871114	
Sample Date		Client Info		10 Jun 2024	09 May 2024	
Machine Age	hrs	Client Info		0	0	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	
Sample Status				ABNORMAL	ABNORMAL	
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		0		
Iron	ppm	ASTM D5185(m)	>50	<1	0	
Chromium	ppm	ASTM D5185(m)	>10	0	0	
Nickel	ppm	ASTM D5185(m)		0	0	
Titanium	ppm	ASTM D5185(m)		0	0	
Silver	ppm	ASTM D5185(m)		0	0	
Aluminum	ppm	ASTM D5185(m)	>25	0	0	
Lead	ppm	ASTM D5185(m)	>25	0	0	
Copper	ppm	ASTM D5185(m)	>50	<1	<1	
Tin	ppm	ASTM D5185(m)	>15	0	0	
Antimony	ppm	ASTM D5185(m)		0	0	
Vanadium	ppm	ASTM D5185(m)		0	0	
Beryllium	ppm	ASTM D5185(m)		0	0	
Cadmium	ppm	ASTM D5185(m)		0	0	
ADDITIVES		method	limit/base	current	history1	history2
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	0	0	
Magnesium	ppm	ASTM D5185(m)	0	0	<1	
Calcium	ppm	ASTM D5185(m)	0	0	1	
Phosphorus	ppm	ASTM D5185(m)	1200	1022	1042	
Zinc	ppm	ASTM D5185(m)	0	1	2	
Sulfur	ppm	ASTM D5185(m)	0	15	25	
Lithium	ppm	ASTM D5185(m)		<1	<1	
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	0	<1	
Sodium	ppm	ASTM D5185(m)		<1	<1	
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	
Water	%	ASTM D6304*	>0.015	0.032	0.028	
ppm Water	ppm	ASTM D6304*	>150	330	281	
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	<b>29082</b>	787	
Particles >6µm		ASTM D7647	>2500	<b>8888</b>	254	
D 11 1 44		ASTM D7647	>320	<b>^</b> 739	26	
Particles >14µm						
Particles >14µm Particles >21µm		ASTM D7647	>80	<u>^</u> 203	8	
		ASTM D7647 ASTM D7647	>80 >20	<b>203</b> 9	8	
Particles >21µm			>20			
Particles >21μm Particles >38μm		ASTM D7647	>20	9 1 ^ 22/20/17	2	



# OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

: WC0871112 Lab Number : 02641743 Unique Number : 5799282

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Received : 13 Jun 2024

**Tested** : 14 Jun 2024 Diagnosed

: 14 Jun 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. **CONESTOGA COLD STORAGE** 

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

**CA L5N 7E6** Contact: Ken Riddle kriddle@coldstorage.com T: (519)748-4086

F: (905)567-1844

Validity of results and interpretation are based on the sample and information as supplied. Contact/Location: Ken Riddle - CON266MIS