

**WEAR** CONTAMINATION **FLUID CONDITION** 

**NORMAL ABNORMAL NORMAL** 

[MC-001352-1]

50410000047787 RACK B (S/N 500392-13)

**Reciprocating Compressor** 

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

RECOMMENDATION

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	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.

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Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0907706	WC0789022	WC0668588
Sample Date		Client Info		26 Feb 2024	16 Feb 2023	11 Feb 2022
Machine Age	mths	Client Info		0	0	4
Oil Age	mths	Client Info		0	0	2
Filter Age	mths	Client Info		8	0	1
Oil Changed		Client Info		N/A	N/A	Filtered
Filter Changed		Client Info		Changed	N/A	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL
PQ		ASTM D8184*		0	0	0
Iron	ppm	ASTM D5185(m)	>50	22	18	19

0

Chromium

ppm

## WEAR

All component wear rates are normal.

Nickel	ppm	ASTM D5185(m)		0	<1	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	0	0
Aluminum	ppm	ASTM D5185(m)	>25	<1	<1	<1
Lead	ppm	ASTM D5185(m)	>25	<1	<1	<1
Copper	ppm	ASTM D5185(m)	>50	7	2	1
Tin	ppm	ASTM D5185(m)	>15	<1	1	1
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE

ASTM D5185(m) >10

## CONTAMINATION

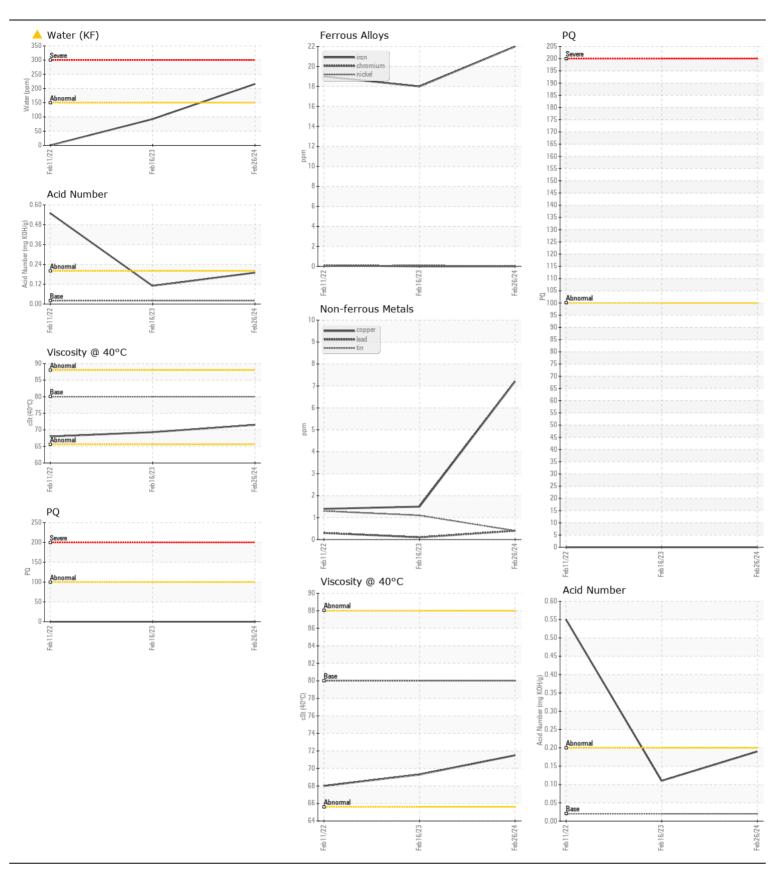
There is a light concentration of water present in the oil.

Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185(m)	>25	6	7	8
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	1
Water	%	ASTM D6304*	>0.015	<u> </u>	0.009	
ppm Water	ppm	ASTM D6304*	>150	<u> </u>	92.5	
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.015	NEG	NEG	NEG
Sodium	ppm	ASTM D5185(m)		<1	1	<1
Boron	ppm	ASTM D5185(m)	0	<1	2	2

## **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.

Emulsified Water	scalar	Visual*	>0.015	NEG	NEG	NEG
Sodium	ppm	ASTM D5185(m)		<1	1	<1
Boron	ppm	ASTM D5185(m)	0	<1	2	2
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	<1	<1
Magnesium	ppm	ASTM D5185(m)	0	<1	0	0
Calcium	ppm	ASTM D5185(m)	0	<1	0	<1
Phosphorus	ppm	ASTM D5185(m)	1200	1046	1127	1126
Zinc	ppm	ASTM D5185(m)	0	8	10	11
Sulfur	ppm	ASTM D5185(m)	0	0	5	2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.02	0.19	0.11	0.55
Visc @ 40°C	cSt	ASTM D7279(m)	80	71.5	69.3	68.0





CALA ISO 17025:2017 Accredited Laboratory

Sample No.

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : WC0907706

Lab Number : 02620218 Unique Number : 5737328

Received **Tested** Diagnosed Test Package : IND 2 ( Additional Tests: KF, TAN Man )

: 06 Mar 2024

: 11 Mar 2024

: 11 Mar 2024 - Kevin Marson

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** 

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