

# **PROBLEM SUMMARY**

#### Area [235354/153888] Machine Id HILL PHOENIX RACK B #1538 (S/N 74204-82) Component

### **Reciprocating Compressor**

BITZER BSE 85 K (--- LTR)

Acid Number

1.0

0.9 0.8

0.8 0.7 0.7 0.6 0.6 0.5 0.5 0.4 0.4

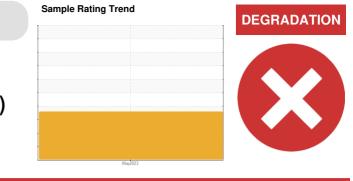
Acid 1

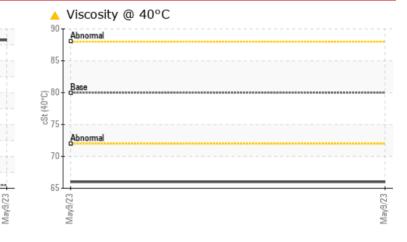
0.2

0.1 0.0 Ba

Mav9/23

### COMPONENT CONDITION SUMMARY





#### RECOMMENDATION

We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. Please note that this is a corrected copy for data entry updates.

PROBLEMATIC TEST RESULTS
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Sample Status				SEVERE	 
Acid Number (AN)	mg KOH/g	ASTM D974*	0.02	0.93	 
Visc @ 40°C	cSt	ASTM D7279(m)	80	<b>66.0</b>	 

Customer Id: DISEDM Sample No.: WC0816808 Lab Number: 02560224 Test Package: IND 2



To manage this report scan the QR code

*To discuss the diagnosis or test data:* Kevin Marson +1 (289)291-4644 x4644 Kevin.Marson@wearcheck.com

To change component or sample information: Gloria Gonzalez +1 (289)291-4643 x4643 gloria.gonzalez@wearcheck.com

RECOMMENDED ACTIONS						
Action	Status	Date	Done By	Description		
Change Fluid			?	We recommend that you drain the oil from the component if this has not already been done.		
Resample			?	We recommend an early resample to monitor this condition.		

HISTORICAL DIAGNOSIS



## **OIL ANALYSIS REPORT**

### [235354/153888] HILL PHOENIX RACK B #1538 (S Component

**Reciprocating Compressor** BITZER BSE 85 K (--- LTR)

#### DIAGNOSIS

#### Recommendation

We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. Please note that this is a corrected copy for data entry updates.

#### Wear

All component wear rates are normal.

#### Contamination

The water content is negligible.

#### Fluid Condition

The oil viscosity is higher than normal. The high AN level of the oil indicates the presence of oxipolymerized products. The AN level is much higher than the recommended limit. Viscosity of sample indicates oil is within ISO 68 range, advise investigate. The oil is no longer serviceable.

8 (S/N 74204	<b>1-82</b> )			May2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0816808		
Sample Date		Client Info		09 May 2023		
Machine Age	yrs	Client Info		10		
Oil Age	yrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				SEVERE		
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		0		
Iron	ppm	ASTM D5185(m)	>50	12		
Chromium	ppm	ASTM D5185(m)	>10	0		
Nickel	ppm	ASTM D5185(m)		0		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)		0		
Aluminum	ppm	ASTM D5185(m)	>25	<1		
Lead	ppm	ASTM D5185(m)	>25	0		
Copper	ppm	ASTM D5185(m)	>50	<1		
Tin	ppm	ASTM D5185(m)	>15	<1		
Antimony	ppm	ASTM D5185(m)		0		
Vanadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	<1		
Barium	ppm	ASTM D5185(m)	0	0		
Molybdenum	ppm	ASTM D5185(m)	0	0		
Manganese	ppm	ASTM D5185(m)	0	0		
Magnesium	ppm	ASTM D5185(m)	0	0		
Calcium	ppm	ASTM D5185(m)	0	0		
Phosphorus	ppm	ASTM D5185(m)	1200	1051		
Zinc	ppm	ASTM D5185(m)	0	1		
Sulfur	ppm	ASTM D5185(m)	0	4		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINANTS	\$	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	2		
Sodium	ppm	ASTM D5185(m)		<1		
Potassium	ppm	ASTM D5185(m)	>20	<1		
Water	%	ASTM D6304*	>0.1	0.037		
ppm Water	ppm	ASTM D6304*	>1000	372.9		
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.02	• 0.93		

Sample Rating Trend

DEGRADATION



150 0

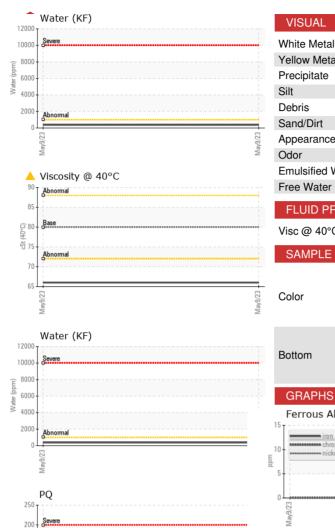
50

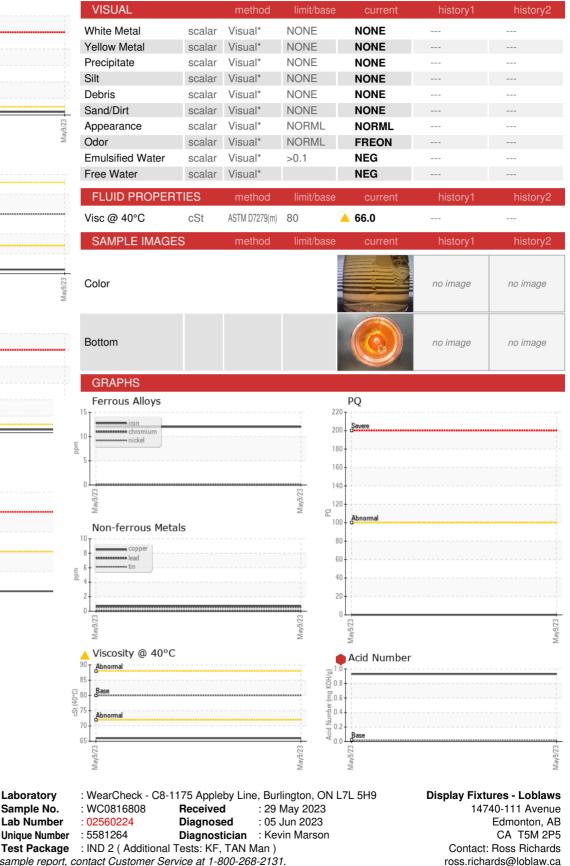
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(19/19/17)

Abnorm 100

# **OIL ANALYSIS REPORT**





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.

Report Id: DISEDM [WCAMIS] 02560224 (Generated: 10/27/2023 11:31:22) Rev: 2

CALA

ISO 17025:2017 Accredited

Laboratory

Laboratory

Sample No.

Lab Number

Unique Number

Contact/Location: Ross Richards - DISEDM

F:

T: (780)232-2699