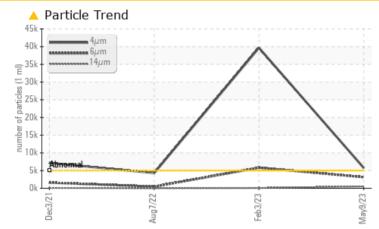


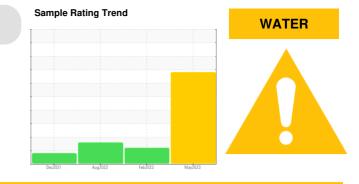
# **PROBLEM SUMMARY**

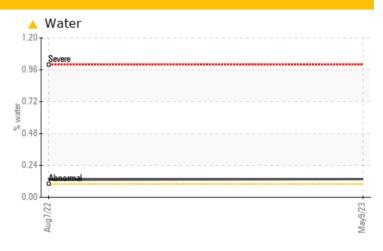
#### Area VACUUM PUMP Machine Id B68184 - VACUUM PUMP ROTARY VANE Component

Vacuum Pump Fluid BUSCH R530S (--- GAL)

### COMPONENT CONDITION SUMMARY







### RECOMMENDATION

We advise that you follow the water drain-off procedure for this component. Resample at the next service interval to monitor.

### PROBLEMATIC TEST RESULTS

PROBLEMATIC TEST RESULTS							
Sample Status				ABNORMAL	ABNORMAL	MARGINAL	
Water	%	ASTM D6304		<u> </u>		<b>0</b> .132	
ppm Water	ppm	ASTM D6304	>.1	<b>A</b> 1370		<b>1</b> 320	
Particles >4µm		ASTM D7647	>5000	<u> </u>	▲ 39669	4299	
Particles >6µm		ASTM D7647	>1300	<b>A</b> 3128	▲ 5823	472	
Particles >14µm		ASTM D7647	>160	<u> </u>	72	16	
Particles >21µm		ASTM D7647	>40	<b>179</b>	11	4	
Particles >38µm		ASTM D7647	>10	<u> </u>	0	1	
Particles >71µm		ASTM D7647	>3	<mark>▲</mark> 3	0	0	
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u> </u>	<b>A</b> 22/20/13	19/16/11	
Appearance	scalar	*Visual	NORML	🔺 HAZY	NORML	NORML	
Emulsified Water	scalar	*Visual		<u> </u>	NEG	▲ 0.2%	
Free Water	scalar	*Visual		<b>10.0</b>	NEG	NEG	

Customer Id: PAPOMA Sample No.: WC0691453 Lab Number: 05851817 Test Package: IND 2



To manage this report scan the QR code

*To discuss the diagnosis or test data:* Doug Bogart +1 (800)237-1369 x4016 <u>dougb@wearcheckusa.com</u>

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS						
Action	Status	Date	Done By	Description		
Water Drain-off			?	We advise that you follow the water drain-off procedure for this component.		

### **HISTORICAL DIAGNOSIS**



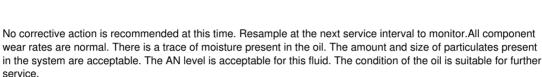
03 Feb 2023 Diag: Doug Bogart

Resample at the next service interval to monitor.All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



### 07 Aug 2022 Diag: Doug Bogart

service.







### 03 Dec 2021 Diag: Jonathan Hester

No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





## **OIL ANALYSIS REPORT**

Sample Number

Sample Date

### B68184 - VACUUM PUMP ROTARY VANE Component

Vacuum Pump BUSCH R530S (--- GAL)

### DIAGNOSIS

### Recommendation

We advise that you follow the water drain-off procedure for this component. Resample at the next service interval to monitor.

#### Wear

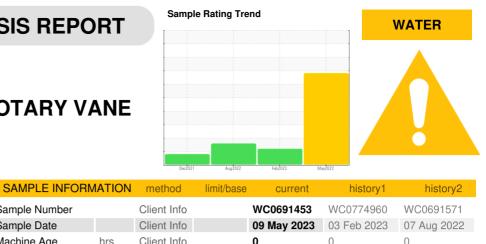
All component wear rates are normal.

### Contamination

There is a high amount of particulates present in the oil. Excessive free water present. There is a light concentration of water present in the oil.

#### Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.



Sample Date				09 May 2025	001602020	07 Aug 2022
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	ABNORMAL	MARGINAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m		4	<1	0
Chromium	ppm	ASTM D5185m		0	0	0
Nickel	ppm		>20	<1	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	<1	0	<1
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>20	0	0	0
Tin	ppm	ASTM D5185m	>20	<1	0	0
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m		4	0	0
Calcium	ppm	ASTM D5185m		0	0	0
Phosphorus	ppm	ASTM D5185m		1	2	0
Zinc	ppm	ASTM D5185m		0	0	0
Sulfur	ppm	ASTM D5185m		58	27	26
CONTAMINANTS	6	method	limit/base	current	history1	history2

CONTAININANTS	•	methou	IIIIII/Dase	Current	TIStory	TIStory2
Silicon	ppm	ASTM D5185m	>15	0	10	6
Sodium	ppm	ASTM D5185m		<1	0	<1
Potassium	ppm	ASTM D5185m	>20	<1	<1	0
Water	%	ASTM D6304		<b>6</b> 0.137		▲ 0.132
ppm Water	ppm	ASTM D6304	>.1	<b>1370</b>		<b>1</b> 320

FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	<b>6</b> 5742	▲ 39669	4299
Particles >6µm	ASTM D7647	>1300	<b>A</b> 3128	▲ 5823	472
Particles >14µm	ASTM D7647	>160	<b>6</b> 532	72	16
Particles >21µm	ASTM D7647	>40	<u> </u>	11	4
Particles >38µm	ASTM D7647	>10	<u> </u>	0	1
Particles >71µm	ASTM D7647	>3	<u> </u>	0	0
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<b>A</b> 20/19/16	<b>22/20/13</b>	19/16/11

limit/base

Acid Number (AN)

FLUID DEGRADATION

mg KOH/g ASTM D8045

method

current 0.92

0.059 0.068 Submitted By: NEIL ARIANO

history1

history2

Report Id: PAPOMA [WUSCAR] 05851817 (Generated: 08/23/2023 12:16:43) Rev: 1



50

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1 of particles (

الم 10

0

1.20

0.9

0.72<u>ھ</u>

0.2 0.00

1.20

0.96

lar 2/7

# **OIL ANALYSIS REPORT**

limit/base

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

limit/base

95.0

current

NONE

NONE

NONE

NONE

LIGHT

NONE

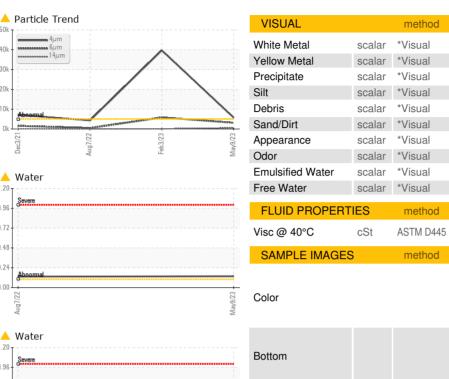
HAZY

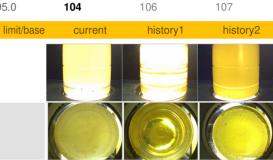
0.2%

10.0

NORML

curren





history1

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

history

NEG

NEG

history2

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

history

NEG

0.2%

