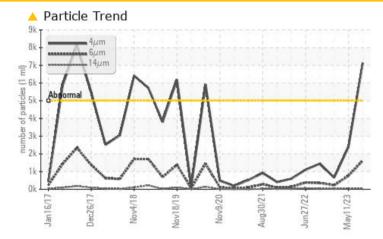


# **PROBLEM SUMMARY**

# BUSCH MULTIVAC-3 BUSCH 5B (S/N 2512909)

Pump Fluid USPI VAC 100 (--- GAL)

## COMPONENT CONDITION SUMMARY



### RECOMMENDATION

Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS							
Sample Status			ATTENTION	NORMAL	NORMAL		
Particles >4µm	ASTM D7647	>5000	<u> </u>	2402	659		
Particles >6µm	ASTM D7647	>1300	🔺 1617	766	224		
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<u> </u>	18/17/13	17/15/12		

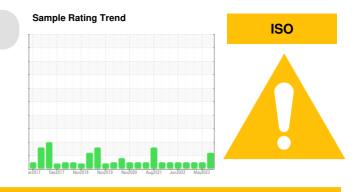
Customer Id: IBPDAK01 Sample No.: USPM29245 Lab Number: 05928268 Test Package: IND 2



To manage this report scan the QR code

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

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



### **RECOMMENDED ACTIONS**

There are no recommended actions for this sample.

### HISTORICAL DIAGNOSIS

### 11 May 2023 Diag: Doug Bogart



Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

#### 26 Jan 2023 Diag: Jonathan Hester

03 Oct 2022 Diag: Doug Bogart



 $\checkmark$ 

Resample at the next service interval to monitor.All component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



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#### NORMAL



Resample at the next service interval to monitor.All component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





# **OIL ANALYSIS REPORT**

### Machine Id BUSCH MULTIVAC-3 BUSCH 5B (S/N 2512909) Component

Pump Fluid

**USPI VAC 100 (--- GAL)** 

# DIAGNOSIS

### A Recommendation

Resample at the next service interval to monitor.

#### Wear

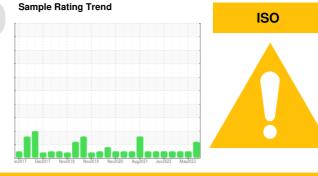
All component wear rates are normal.

### Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

# Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



SAMPLE INFORM	<b>IATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		USPM29245	USPM28897	USPM26235
Sample Date		Client Info		19 Aug 2023	11 May 2023	26 Jan 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ATTENTION	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	3	3	3
Chromium	ppm	ASTM D5185m	>5	0	<1	0
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m	>3	0	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>7	<1	<1	<1
Lead	ppm	ASTM D5185m	>12	0	<1	<1
Copper	ppm	ASTM D5185m	>30	0	0	0
Tin	ppm	ASTM D5185m	>9	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	0
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m	0	<1	10	0
Calcium	ppm	ASTM D5185m	0	<1	0	1
Phosphorus	ppm	ASTM D5185m	1800	1393	1549	1444
Zinc	ppm	ASTM D5185m	0	1	14	3
Sulfur	ppm	ASTM D5185m	0	0	0	12
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>60	2	2	1
Sodium	ppm	ASTM D5185m		0	1	0
Potassium	ppm	ASTM D5185m	>20	0	5	0
Water	%	ASTM D6304		0.054	0.056	0.029
ppm Water	ppm	ASTM D6304	>.1	545.6	563.0	294.9
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<b>A</b> 7124	2402	659
Particles >6µm		ASTM D7647	>1300	🔺 1617	766	224
Particles >14µm		ASTM D7647	>160	53	52	23
Particles >21µm		ASTM D7647	>40	15	9	5
Particles >38µm		ASTM D7647	>10	1	1	0
Particles >71µm		ASTM D7647	>3	0	1	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>A</b> 20/18/13	18/17/13	17/15/12
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.05	0.18	0.16	0.14

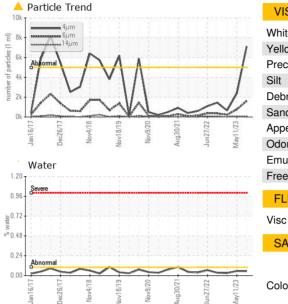


Acid Number

7 00

6.00 (B/H0) 5.00

# **OIL ANALYSIS REPORT**

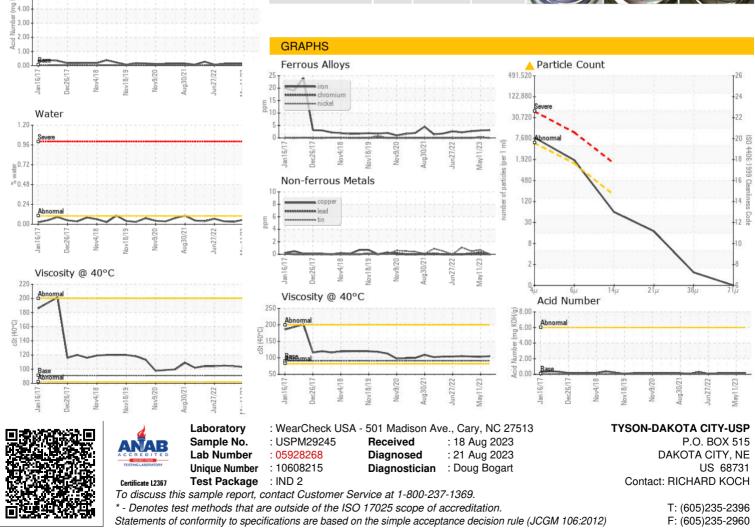


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual		NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	91	105	103	104
SAMPLE IMAGES	S	method	limit/base	current	history1	history2
Color					15 00 (12 11 20 00 (12 14 980 20 (12 14 980 20 (12 14 14 14 14 14 14 14 14 14 14 14 14 14	

Color



Bottom



Contact/Location: RICHARD KOCH - IBPDAK01