

Component **Pump** Fluid

PROBLEM SUMMARY

Sample Rating Trend

No relevant graphs to display

USPI VAC 100 (--- GAL)

COMPONENT CONDITION SUMMARY

RECOMMENDATION PROBLEMATIC TEST RESULTS

We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.

BUSCH VM4 / VP-1 (S/N 2512909)

PROBLEMATIC TEST RESULTS							
Sample Status				ABNORMAL	NORMAL	NORMAL	
Debris	scalar	*Visual	NONE	🔺 MODER	NONE	LIGHT	

Customer Id: IBPDAK01 Sample No.: USPM29273 Lab Number: 05928284 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 A	RECOMMENDED ACTIONS						
Action	Status	Date	Done By	Description			
Change Filter			?	We recommend you service the filters on this component.			
Alert			?	We were unable to perform a particle count due to a high concentration of particles present in 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.



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.

03 Oct 2022 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.



view report

view report







OIL ANALYSIS REPORT

VIS DEBRIS

BUSCH VM4 / VP-1 (S/N 2512909)

Pump Fluid

USPI VAC 100 (--- GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.

Wear

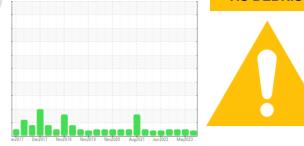
All component wear rates are normal.

Contamination

Moderate concentration of visible dirt/debris present in the oil.

Fluid Condition

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



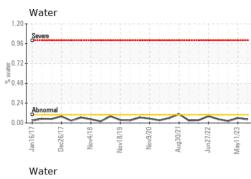
Sample Rating Trend

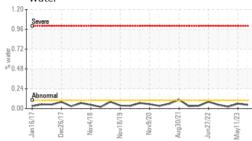
SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		USPM29273	USPM28917	USPM26255
Sample Date		Client Info		19 Aug 2023	11 May 2023	26 Jan 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	1	1	2
Chromium	ppm	ASTM D5185m	>5	0	0	0
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m	>3	0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>7	0	0	<1
Lead	ppm	ASTM D5185m	>12	0	0	0
Copper	ppm	ASTM D5185m		0	0	0
Tin	ppm	ASTM D5185m	>9	۰ <1	<1	<1
Vanadium	ppm	ASTM D5185m	20	<1	0	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	2	0
Molybdenum		ASTM D5185m	0	0	0	0
-	ppm	ASTM D5185m	0	0	0	0
Manganese Magnesium	ppm	ASTM D5185m	0	1	<1	0
Calcium	ppm		0	0	1	<1
	ppm	ASTM D5185m		1368	1299	
Phosphorus	ppm	ASTM D5185m	1800	0		1454
Zinc	ppm	ASTM D5185m	0	-	0	0
Sulfur	ppm	ASTM D5185m	0	0	0	7
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>60	<1	<1	<1
Sodium	ppm	ASTM D5185m		<1	0	<1
Potassium	ppm	ASTM D5185m	>20	2	1	0
Water	%	ASTM D6304		0.044	0.060	0.023
ppm Water	ppm	ASTM D6304	>.1	448.0	602.2	233.7
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000		946	1222
Particles >6µm		ASTM D7647	>1300		221	427
Particles >14µm		ASTM D7647	>160		19	25
Particles >21µm		ASTM D7647	>40		3	4
Particles >38µm		ASTM D7647	>10		0	1
Particles >71µm		ASTM D7647	>3		0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14		17/15/11	17/16/12
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.05	0.21	0.291	0.20

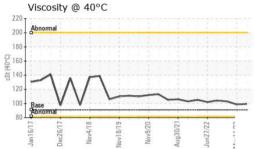
Contact/Location: RICHARD KOCH - IBPDAK01



OIL ANALYSIS REPORT

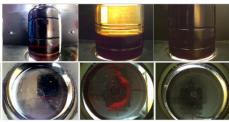






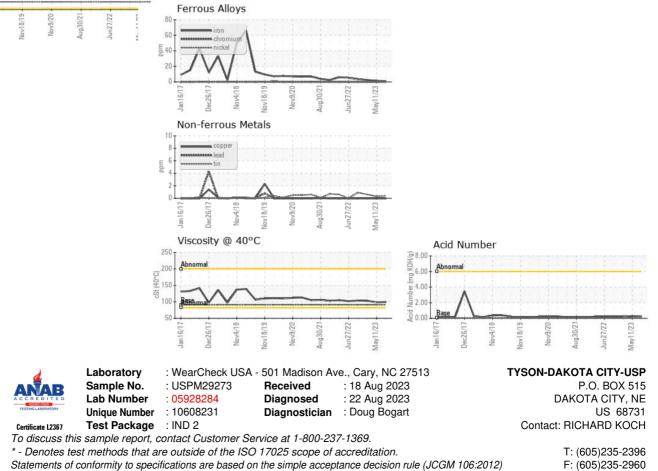
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE		NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	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	99.4	98.5	103
SAMPLE IMAGES	S	method	limit/base	current	history1	history2

Color



Bottom





Contact/Location: RICHARD KOCH - IBPDAK01