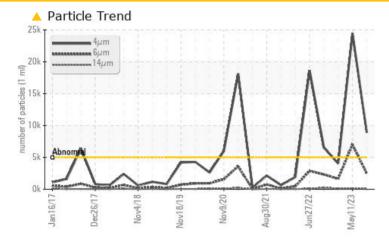


PROBLEM SUMMARY

BUSCH VM9 / VP-3 (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	ABNORMAL	ATTENTION				
Particles >4µm	ASTM D7647	>5000	<u> </u>	2 4484	4037				
Particles >6µm	ASTM D7647	>1300	🔺 2496	A 7010	🔺 1615				
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<u> </u>	A 22/20/14	19/18/14				

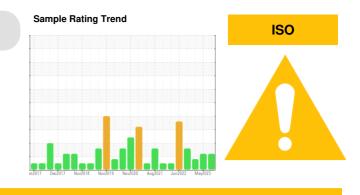
Customer Id: IBPDAK01 Sample No.: USPM29242 Lab Number: 05928270 Test Package: IND 2



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

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 a high 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.

26 Jan 2023 Diag: Jonathan Hester

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.

03 Oct 2022 Diag: Doug Bogart





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OIL ANALYSIS REPORT

Machine Id BUSCH VM9 / VP-3 (S/N 2512909) Component

Pump

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

DIAGNOSIS

A Recommendation

Resample at the next service interval to monitor.

Wear

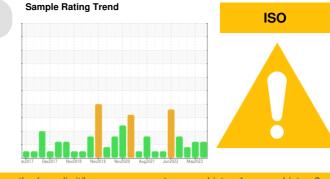
All component wear rates are normal.

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	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USPM29242	USPM28934	USPM26272
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	ABNORMAL	ATTENTION
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	56	51	31
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	2	2
Lead	ppm	ASTM D5185m	>12	0	0	0
Copper	ppm	ASTM D5185m	>30	<1	0	<1
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	5	6	13
Phosphorus	ppm	ASTM D5185m	1800	1331	1618	1530
Zinc	ppm	ASTM D5185m	0	6	28	18
Sulfur	ppm	ASTM D5185m	0	5	0	19
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>60	2	2	<1
Sodium	ppm	ASTM D5185m		<1	3	1
Potassium	ppm	ASTM D5185m	>20	<1	6	0
Water	%	ASTM D6304		0.063	0.049	0.030
ppm Water	ppm	ASTM D6304	>.1	635.2	490.6	303.1
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<u> </u>	A 24484	4037
Particles >6µm		ASTM D7647	>1300	<u> </u>	A 7010	1 615
Particles >14µm		ASTM D7647	>160	118	135	135
Particles >21µm		ASTM D7647	>40	29	15	22
Particles >38µm		ASTM D7647	>10	1	1	1
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	20/18/14	▲ 22/20/14	▲ 19/18/14
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.05	1.00	1.10	1.08

Acid Number (AN)



Acid Number

7.00

OIL ANALYSIS REPORT

scalar

scalar

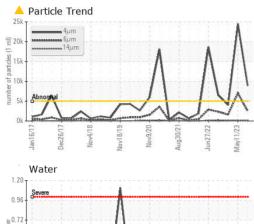
scalar

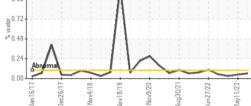
VISUAL

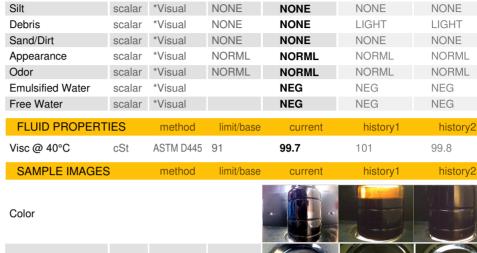
White Metal

Yellow Metal

Precipitate







limit/base

NONE

NONE

NONE

current

NONE

NONE

NONE

history1

NONE

NONE

NONE

history2

NONE

NONE

NONE

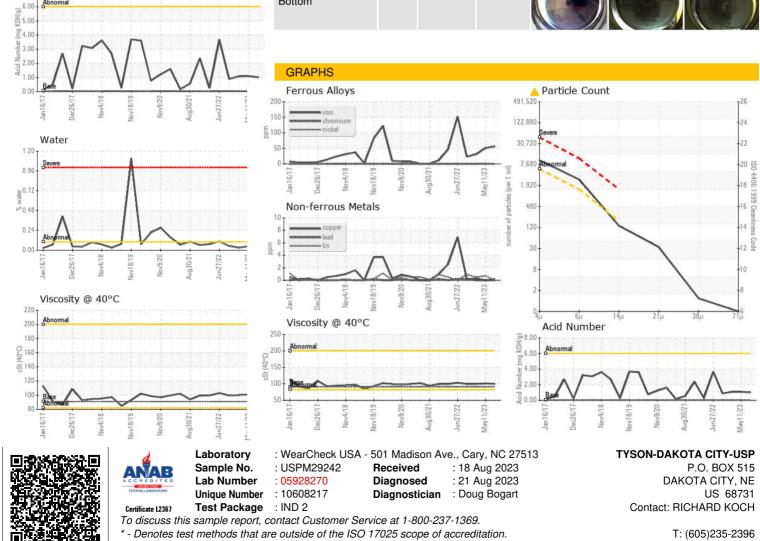
method

*Visual

*Visual

*Visual

Bottom



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

F: (605)235-2960