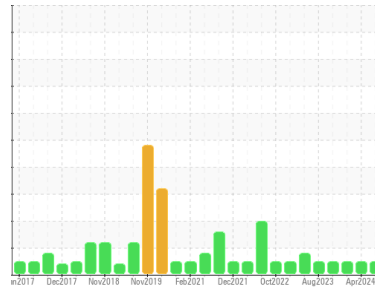




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**BUSCH VM2 / VP-2**  
 Component  
**Pump**  
 Fluid  
**USPI VAC 100 (--- GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

### Fluid Condition

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

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>USPM37625</b>	USP0006304	USPM30293
Sample Date	Client Info	<b>09 Jun 2024</b>	15 Apr 2024	28 Feb 2024
Machine Age	hrs Client Info	<b>0</b>	0	0
Oil Age	hrs Client Info	<b>0</b>	0	0
Oil Changed	Client Info	<b>N/A</b>	N/A	N/A
Sample Status		<b>NORMAL</b>	NORMAL	NORMAL

## WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >90	<b>15</b>	5	4
Chromium	ppm ASTM D5185m >5	<b>0</b>	0	0
Nickel	ppm ASTM D5185m >5	<b>0</b>	0	0
Titanium	ppm ASTM D5185m >3	<b>0</b>	0	0
Silver	ppm ASTM D5185m >3	<b>0</b>	0	0
Aluminum	ppm ASTM D5185m >7	<b>1</b>	0	0
Lead	ppm ASTM D5185m >12	<b>0</b>	0	0
Copper	ppm ASTM D5185m >30	<b>&lt;1</b>	0	0
Tin	ppm ASTM D5185m >9	<b>&lt;1</b>	<1	<1
Vanadium	ppm ASTM D5185m	<b>&lt;1</b>	<1	<1
Cadmium	ppm ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 0	<b>0</b>	0	0
Barium	ppm ASTM D5185m 0	<b>0</b>	0	0
Molybdenum	ppm ASTM D5185m 0	<b>0</b>	0	0
Manganese	ppm ASTM D5185m	<b>0</b>	0	0
Magnesium	ppm ASTM D5185m 0	<b>0</b>	0	0
Calcium	ppm ASTM D5185m 0	<b>4</b>	0	0
Phosphorus	ppm ASTM D5185m 1800	<b>1156</b>	921	934
Zinc	ppm ASTM D5185m 0	<b>0</b>	0	2
Sulfur	ppm ASTM D5185m 0	<b>0</b>	0	0

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >60	<b>2</b>	<1	2
Sodium	ppm ASTM D5185m	<b>8</b>	2	1
Potassium	ppm ASTM D5185m >20	<b>&lt;1</b>	12	0
Water	% ASTM D6304 >.1	<b>0.062</b>	0.038	0.022
ppm Water	ppm ASTM D6304 >1000	<b>629</b>	382	220

## FLUID CLEANLINESS

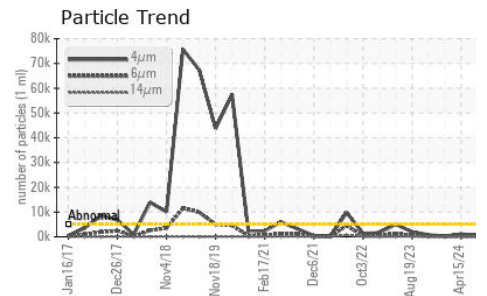
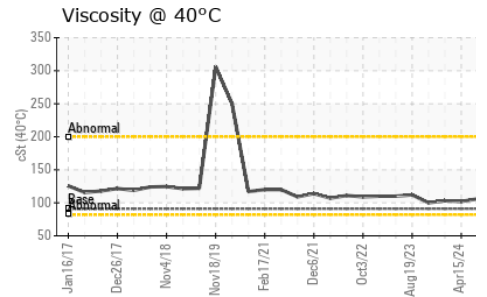
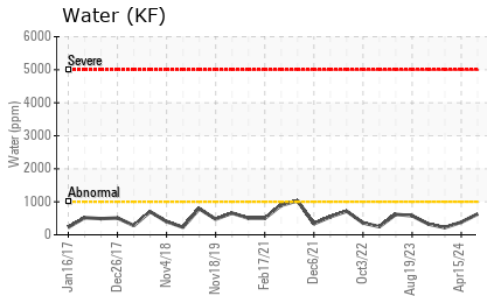
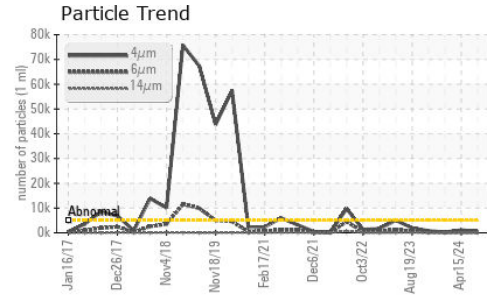
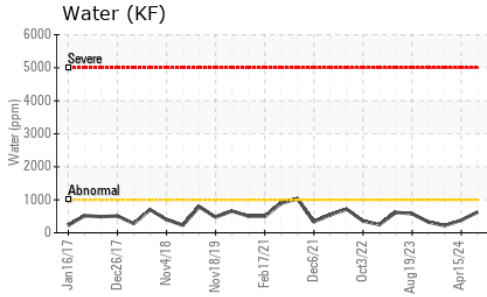
method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >5000	<b>613</b>	1125	282
Particles >6µm	ASTM D7647 >1300	<b>203</b>	298	81
Particles >14µm	ASTM D7647 >160	<b>20</b>	24	11
Particles >21µm	ASTM D7647 >40	<b>4</b>	8	3
Particles >38µm	ASTM D7647 >10	<b>0</b>	2	0
Particles >71µm	ASTM D7647 >3	<b>0</b>	1	0
Oil Cleanliness	ISO 4406 (c) >19/17/14	<b>16/15/11</b>	17/15/12	15/14/11

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D8045 0.05	<b>0.61</b>	0.28	0.27



# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>.1	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 91	106	102	103

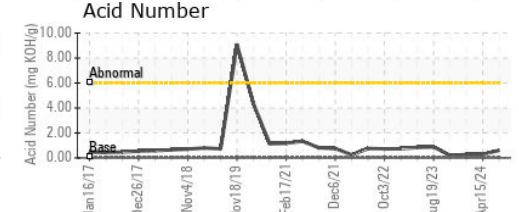
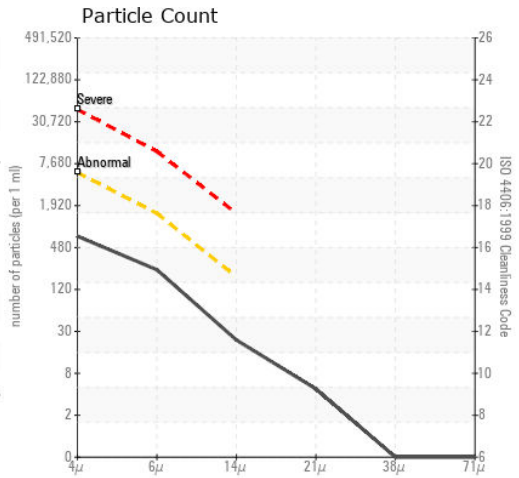
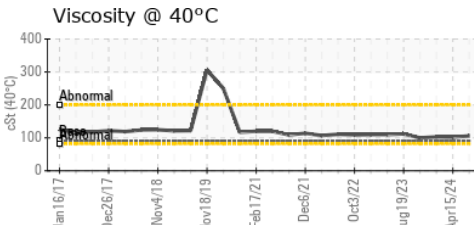
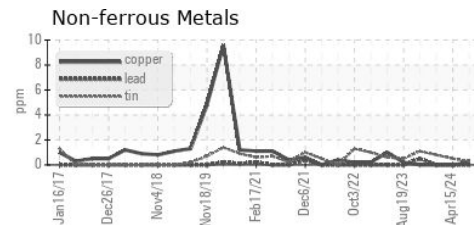
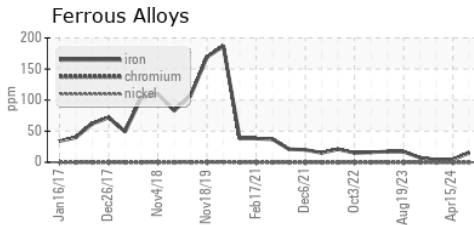
SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color

Bottom



## GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
 Sample No. : USPM37625  
 Lab Number : 06205478  
 Unique Number : 11072939  
 Test Package : IND 2

Received : 10 Jun 2024  
 Tested : 12 Jun 2024  
 Diagnosed : 12 Jun 2024 - Doug Bogart

TYSON-DAKOTA CITY-PRO  
 P.O. BOX 515  
 DAKOTA CITY, NE  
 US 68731  
 Contact: Service Manager

To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

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

T:  
 F: (605)235-2960