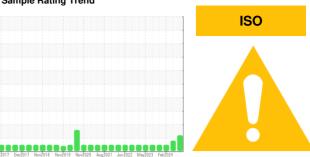


# **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id

# **BUSCH VM7 / VP-3**

Component Pump

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

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

## Contamination

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

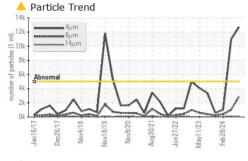
## **Fluid Condition**

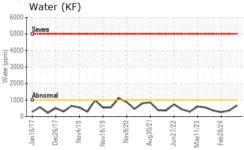
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

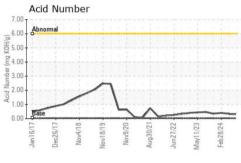
		in2017 Dec201	7 Nov2018 Nov2019 Nov	2020 Aug2021 Jun2022 May2023	Feb2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USPM37616	USP0006794	USPM30306
Sample Date		Client Info		09 Jun 2024	15 Apr 2024	28 Feb 2024
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	2	2	3
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	<1	<1
Lead	ppm	ASTM D5185m	>12	0	0	0
Copper	ppm	ASTM D5185m	>30	0	0	0
Tin	ppm	ASTM D5185m	>9	0	<1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	<1
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	0	0
Magnesium	ppm	ASTM D5185m	0	0	0	0
Calcium	ppm	ASTM D5185m	0	0	<1	<1
Phosphorus	ppm	ASTM D5185m	1800	927	873	1042
Zinc	ppm	ASTM D5185m	0	0	0	19
Sulfur	ppm	ASTM D5185m	0	8	13	56
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>60	9	8	3
Sodium	ppm	ASTM D5185m		<1	3	6
Potassium	ppm	ASTM D5185m	>20	0	18	0
Water	%	ASTM D6304	>.1	0.066	0.035	0.025
ppm Water	ppm	ASTM D6304	>1000	668	355	259
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<b>12703</b>	<b>▲</b> 10918	1032
Particles >6µm		ASTM D7647	>1300	<b>2868</b>	995	387
Particles >14μm		ASTM D7647	>160	59	70	33
Particles >21µm		ASTM D7647	>40	7	15	5
Particles >38μm		ASTM D7647	>10	1	2	0
Particles >71μm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u>^</u> 21/19/13	<b>△</b> 21/17/13	17/16/12
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.05	0.30	0.33	0.41

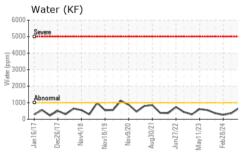


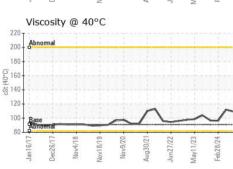
## **OIL ANALYSIS REPORT**











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
<b>Emulsified Water</b>	scalar	*Visual	>.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	TES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	91	109	112	96.4

SAI	MPLE	: IMA	GES

method

limit/base

current

history1

historv2

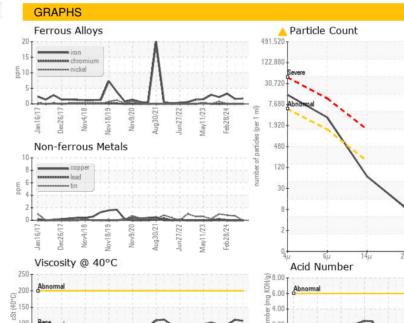
Color

**Bottom** 













Laboratory Sample No.

: USPM37616 Lab Number : 06205482 Unique Number : 11072943

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 10 Jun 2024 **Tested** : 12 Jun 2024

Diagnosed

Test Package : IND 2

Certificate 12367 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)

TYSON-DAKOTA CITY-PRO

P.O. BOX 515 DAKOTA CITY, NE US 68731

Contact: Service Manager

F: (605)235-2960

00.00 Acid

: 12 Jun 2024 - Doug Bogart