

## **OIL ANALYSIS REPORT**

Sample Rating Trend

ISO

Machine Id

## BUSCH VM5 / 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 a moderate amount of particulates present in the oil.

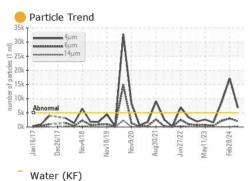
### Fluid Condition

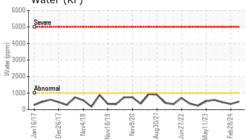
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

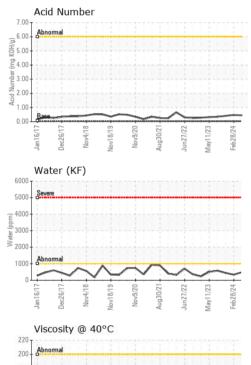
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0006307	USPM30250	USPM31374
Sample Date		Client Info		15 Apr 2024	28 Feb 2024	26 Nov 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ATTENTION	ABNORMAL	ATTENTION
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	6	11	5
Chromium	ppm	ASTM D5185m	>5	0	0	0
Nickel	ppm	ASTM D5185m	>5	0	0	<1
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	<1
Copper	ppm	ASTM D5185m	>30	0	0	0
Tin	ppm	ASTM D5185m	>9	<1	<1	1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	<1	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	<1	1	1
Calcium	ppm	ASTM D5185m	0	1	2	3
Phosphorus	ppm	ASTM D5185m	1800	1366	1546	1606
Zinc	ppm	ASTM D5185m	0	0	0	0
Sulfur	ppm	ASTM D5185m	0	0	12	9
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>60	0	<1	1
Sodium	ppm	ASTM D5185m		2	6	2
Potassium	ppm	ASTM D5185m	>20	13	0	2
Water	%	ASTM D6304	>.1	0.048	0.033	0.043
ppm Water	ppm	ASTM D6304	>1000	484	335	439
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	6775	▲ 17155	8755
Particles >6µm		ASTM D7647	>1300	2000	▲ 3028	2141
Particles >14µm		ASTM D7647	>160	97	44	49
Particles >21µm		ASTM D7647	>40	40	2	6
Particles >38µm		ASTM D7647	>10	2	0	2
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>20/18/15</b>	<b>1</b> /19/13	0/18/13
FLUID DEGRADA		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.05	0.44	0.47	0.41

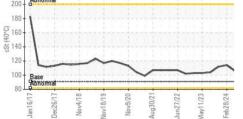


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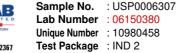












To discuss this sample report, contact Customer Service at 1-800-237-1369.

GRAPHS

50

40

30

10 0

10

Jan 16/17

Jan 16/17

250

100

50

lan 16/17 1ar26/1

ar76/1

Viscosity @ 40°C

Ferrous Alloys

Non-ferrous Metals

Vov18/1

18/19

\* - 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)

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Т: F: (605)235-2960

eb28/24

un27/22

**TYSON-DAKOTA CITY-PRO** 

Contact: Service Manager

May11/23

P.O. BOX 515

US 68731

DAKOTA CITY, NE

20 8

4406

1999 Cle

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Report Id: IBPDAKPRO [WUSCAR] 06150380 (Generated: 04/17/2024 20:38:08) Rev: 1

Contact/Location: Service Manager - IBPDAKPRO

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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	LIGHT	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	>.1	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	106	114	112
SAMPLE IMAGES	3	method	limit/base	current	history1	history2
Color						
Bottom						

Particle Count

Acid Number

lec26/1

ov4/18

Abnorma

491.52

122,88

30,720

480

120

30

00.8 (mg KOH/g) 4.00 4.00

J 2.00

0.00 Acid

Jan 16/17

Feb28/24

: 16 Apr 2024

: 17 Apr 2024

: 17 Apr 2024 - Doug Bogart

Der 1,920

av11/2 eh 28/7

un27/22 lav11/23 <sup>-eb28/24</sup>

un27/22

May11/23

a30/2

a30/21

Received

Diagnosed

Tested