

# **OIL ANALYSIS REPORT**

## Sample Rating Trend



# BUSCH VM2 / VP-1 (S/N 2512909)

Component

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

Pump Fluid

### Recommendation

Resample at the next service interval to monitor.

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.

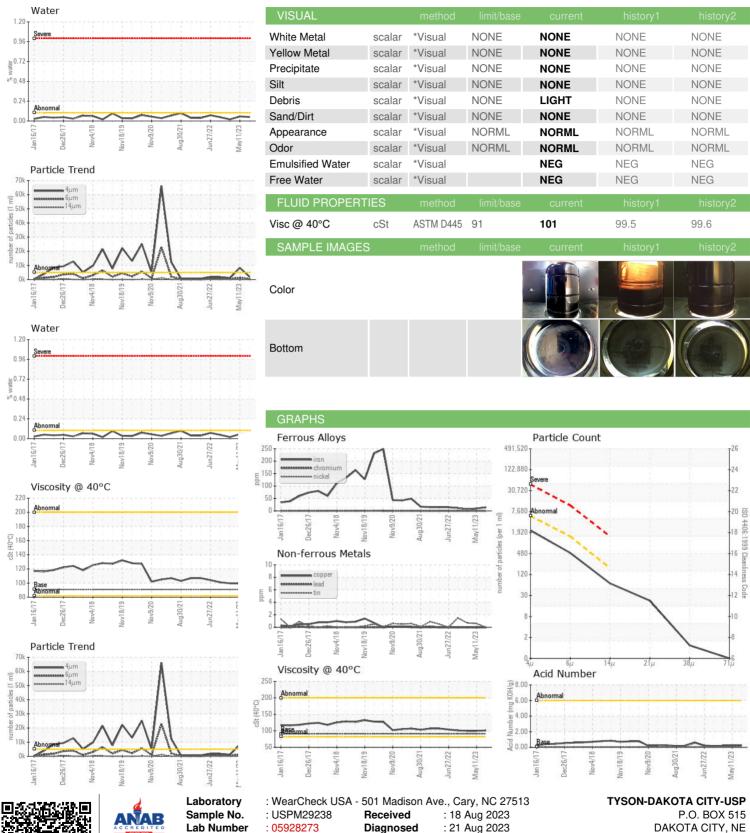
### **Fluid Condition**

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

		an 2017 Dec2	017 Nov2018 Nov2019	Nov2020 Aug2021 Jun2022	May2023	
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USPM29238	USPM28911	USPM26249
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				NORMAL	ATTENTION	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	14	10	6
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	<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		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	<1	0	<1
Phosphorus	ppm	ASTM D5185m	1800	1075	1220	1135
Zinc	ppm	ASTM D5185m	0	1	13	3
Sulfur	ppm	ASTM D5185m	0	0	0	7
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>60	3	3	2
Sodium	ppm	ASTM D5185m		2	2	<1
Potassium	ppm	ASTM D5185m	>20	<1	6	0
Water	%	ASTM D6304		0.048	0.055	0.019
ppm Water	ppm	ASTM D6304	>.1	486.7	558.7	194.3
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	1925	<b>▲</b> 8299	1181
Particles >6µm		ASTM D7647	>1300	438	1264	453
Particles >14µm		ASTM D7647	>160	59	38	28
Particles >21µm		ASTM D7647	>40	19	7	4
Particles >38µm		ASTM D7647	>10	1	1	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	18/16/13	<u>\$\text{\Delta}\$ 20/17/12</u>	17/16/12
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.05	0.25	0.23	0.20



## **OIL ANALYSIS REPORT**





Certificate L2367

Lab Number

**Unique Number** : 10608220 Test Package : IND 2

: 21 Aug 2023 Diagnosed Diagnostician : Doug Bogart

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)

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