

## **OIL ANALYSIS REPORT**

### Sample Rating Trend

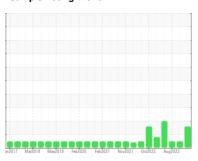
Machine Id

# **BUSCH CV1 WEST TENDER PRIMARY (S/N 5597276)**

Component

**Vacuum Pump** 

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





### DIAGNOSIS

#### Recommendation

We advise that you follow the water drain-off procedure for this component. Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is a light concentration of water present in the oil. The amount and size of particulates present in the system are acceptable.

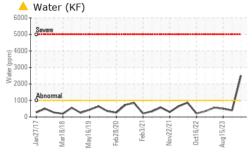
#### **Fluid Condition**

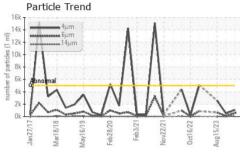
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

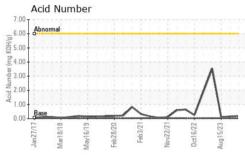
w2017 Max2018 Max2019 Feb2020 Feb2021 Nox2021 Oct2022 Augs0023						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USPM30463	USPM31829	USPM29210
Sample Date		Client Info		18 Mar 2024	10 Dec 2023	15 Aug 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	0	0	0
Chromium	ppm	ASTM D5185m	>20	0	<1	0
Nickel	ppm	ASTM D5185m	>20	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	<1	<1	<1
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>20	0	0	0
Tin	ppm	ASTM D5185m	>20	<1	0	<1
Vanadium	ppm	ASTM D5185m		0	0	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	0	0
Magnesium	ppm	ASTM D5185m	0	0	0	0
Calcium	ppm	ASTM D5185m	0	0	0	0
Phosphorus	ppm	ASTM D5185m	1800	783	810	786
Zinc	ppm	ASTM D5185m	0	0	0	0
Sulfur	ppm	ASTM D5185m	0	0	0	0
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	16	11	9
Sodium	ppm	ASTM D5185m		0	<1	0
Potassium	ppm	ASTM D5185m	>20	0	<1	<1
Water	%	ASTM D6304	>.1	<u> </u>	0.039	0.049
ppm Water	ppm	ASTM D6304	>1000	<u>^</u> 2510	397	497.2
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	1061	500	2566
Particles >6µm		ASTM D7647	>1300	578	96	646
Particles >14μm		ASTM D7647	>160	98	9	31
Particles >21µm		ASTM D7647	>40	33	4	11
Particles >38μm		ASTM D7647	>10	5	0	1
Particles >71µm		ASTM D7647	>3	1	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	17/16/14	16/14/10	19/17/12
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.05	0.19	0.161	0.10

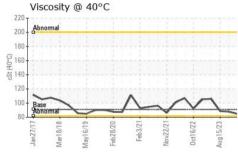


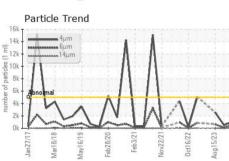
## **OIL ANALYSIS REPORT**

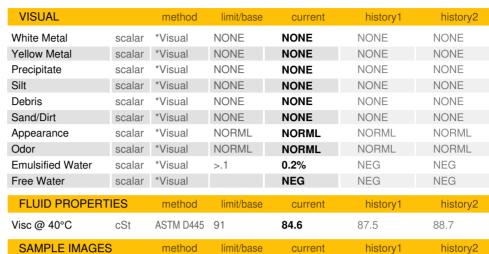




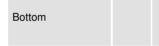








Color







**GRAPHS** Ferrous Alloys Particle Count 150 491 520 100 122,880 30.72 1,920 Non-ferrous Metals 480 120 vug15/23 Viscosity @ 40°C Acid Number 250 (mg KOH/g) 200 © 200 € 150 4.00 SS 100 00.00 PG Nov22/21 Aug 15/23



Laboratory Sample No. Lab Number

: USPM30463

: 06122418 **Unique Number** : 10936569

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 19 Mar 2024 **Tested** : 27 Mar 2024

: 27 Mar 2024 - Doug Bogart Diagnosed

JBS-OTTUMWA 600 SOUTH IOWA AVENUE OTTUMWA, IA

US 52501 Contact: LISA PIERCE

lisa pierce@cargill.com

T: (641)683-4741 F: (641)683-4731

Test Package : IND 2 Certificate L2367 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)