

## **OIL ANALYSIS REPORT**

### Machine Id BUSCH TYSWALWAS VAC 8A (S/N U074006673) Compone Pump

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

#### 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

Additive levels indicate the addition of a different brand or type of oil. Confirmed. The AN level is acceptable for this fluid.

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SAMPLE INFORM	MATION	method	limit/base	current	history1	history2			
Sample Number		Client Info		USPM36372	USPM31850	USPM29074			
Sample Date		Client Info		29 May 2024	12 Dec 2023	01 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				ATTENTION	ATTENTION	NORMAL			
WEAR METALS		method	limit/base	current	history1	history2			
Iron	ppm	ASTM D5185m	>90	7	27	4			
Chromium	ppm	ASTM D5185m	>5	<1	0	0			
Nickel	ppm	ASTM D5185m	>5	0	0	0			
Titanium	ppm	ASTM D5185m	>3	0	0	0			
Silver	ppm	ASTM D5185m	>3	<1	0	0			
Aluminum	ppm	ASTM D5185m	>7	0	<1	<1			
Lead	ppm	ASTM D5185m	>12	1	0	0			
Copper	ppm	ASTM D5185m	>30	2	<1	0			
Tin	ppm	ASTM D5185m	>9	<1	1	<1			
Antimony	ppm	ASTM D5185m		0					
Vanadium	ppm	ASTM D5185m		0	<1	<1			
Cadmium	ppm	ASTM D5185m		0	0	0			
ADDITIVES		method	limit/base	current	history1	history2			
Boron	ppm	ASTM D5185m	0	<1	0	0			
Barium	ppm	ASTM D5185m	0	<1	0	0			
Molybdenum	ppm	ASTM D5185m	0	0	0	0			
Manganese	ppm	ASTM D5185m		<1	0	0			
Magnesium	ppm	ASTM D5185m	0	2	0	0			
Calcium	ppm	ASTM D5185m	0	6	0	0			
Phosphorus	ppm	ASTM D5185m	1800	<b>3</b> 73	1076	861			
Zinc	ppm	ASTM D5185m	0	87	0	0			
Sulfur	ppm	ASTM D5185m	0	483	19	23			
CONTAMINANTS	6	method	limit/base	current	history1	history2			
Silicon	ppm	ASTM D5185m	>60	2	2	4			
Sodium	ppm	ASTM D5185m		0	5	<1			
Potassium	ppm	ASTM D5185m	>20	<1	2	2			
Water	%	ASTM D6304	>.1	0.053	0.025	0.040			
ppm Water	ppm	ASTM D6304	>1000	531	257	405.4			
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2			
Particles >4µm		ASTM D7647	>5000	4982	7908	1053			
Particles >6µm		ASTM D7647	>1300	401	2375	376			
Particles >14µm		ASTM D7647	>160	32	150	44			
Particles >21µm		ASTM D7647	>40	11	26	11			
Particles >38µm		ASTM D7647	>10	1	2	2			
Particles >71µm		ASTM D7647	>3	0	0	2			
Oil Cleanliness		ISO 4406 (c)	>19/17/14	19/16/12	20/18/14	17/16/13			
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2			
Acid Number (AN) 28:05) Bey: 1	mg KOH/g	ASTM D8045	0.05	0.19 0.12 0.29 Contact/Location: BICK DUVALL - TYSWA					

Sample Rating Trend

**ADDITIVES** 

Report Id: TYSWAL [WUSCAR] 06195471 (Generated: 05/31/2024 20:28:05) Rev: 1

Contact/Location: RICK DUVALL - TYSWAL



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White Metal

Yellow Metal

Precipitate

Silt

Debris

Odor

Color

Dotton

Sand/Dirt

Appearance

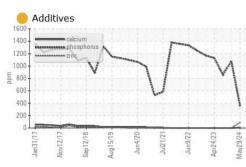
Free Water

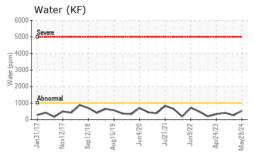
Visc @ 40°C

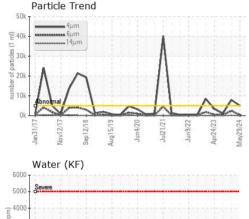
**Emulsified Water** 

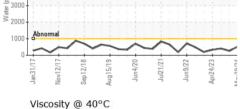
**FLUID PROPERTIES** 

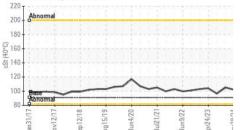
SAMPLE IMAGES



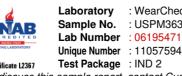












To discuss this sample report, contact Customer Service at 1-800-237-1369. \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

: 06195471

Tested : 31 May 2024 Diagnosed

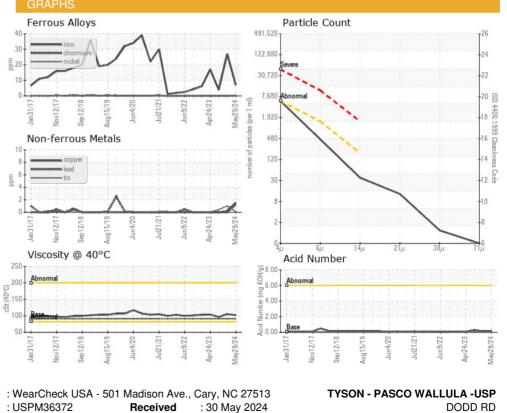
Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

: 30 May 2024 : 31 May 2024 - Doug Bogart

DODD RD WALLULA, WA US 99363 Contact: RICK DUVALL

> T: (402)423-6375 F: (402)423-6661

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normal	7			A				GRAI	PHS	
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