

## **OIL ANALYSIS REPORT**

Sample Rating Trend

## NORMAL

### Machine Id BUSCH 0745 BULK LINE (S/N 10240L92732015) Component Pump

Fluid USPI VAC 100 (--- QTS)

#### DIAGNOSIS

#### 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.

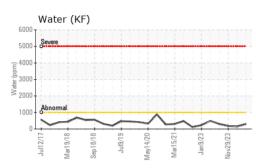
## Fluid Condition

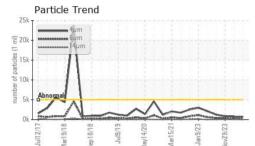
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

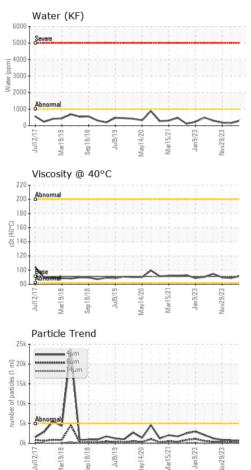
	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USPM37822	USPM30383	USPM31509
Sample Date		Client Info		17 Jun 2024	10 Mar 2024	29 Nov 2023
Machine Age	mths	Client Info		0	0	0
Oil Age	mths	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	4	2	3
Chromium	ppm	ASTM D5185m	>5	0	0	0
Nickel	ppm	ASTM D5185m	>5	<1	0	0
Titanium	ppm	ASTM D5185m	>3	0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>7	<1	0	1
Lead	ppm	ASTM D5185m	>12	0	0	0
Copper	ppm	ASTM D5185m		<1	0	0
Tin	ppm		>9	<1	<1	0
Vanadium	ppm	ASTM D5185m	20	0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES	ppm	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<1	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m	0	<1	0	0
Magnesium	ppm	ASTM D5185m	0	<1	0	<1
Calcium		ASTM D5185m		0	0	0
	ppm	ASTM D5185m	1800	885	766	780
Phosphorus	ppm				0	0
Zinc Sulfur	ppm	ASTM D5185m ASTM D5185m	0	0 234	248	165
CONTAMINANTS	ppm	method	limit/base	-	-	history2
Silicon		ASTM D5185m	>60	current	history1 9	8
Shicon	ppm	ASTIVI DUTOUIII	>00			
Sodium	nnm	ASTM DE185m				
	ppm	ASTM D5185m	> 20	2	0	0
Potassium	ppm	ASTM D5185m	>20	2 3	0 0	0
Potassium Water	ppm %	ASTM D5185m ASTM D6304	>.1	2 3 0.030	0 0 0.014	0 1 0.017
Potassium Water ppm Water	ppm % ppm	ASTM D5185m ASTM D6304 ASTM D6304	>.1 >1000	2 3 0.030 304	0 0 0.014 144	0 1 0.017 179
Potassium Water ppm Water FLUID CLEANLIN	ppm % ppm	ASTM D5185m ASTM D6304 ASTM D6304 method	>.1 >1000 limit/base	2 3 0.030 304 current	0 0 0.014 144 history1	0 1 0.017 179 history2
Potassium Water ppm Water FLUID CLEANLIN Particles >4µm	ppm % ppm	ASTM D5185m ASTM D6304 ASTM D6304 method ASTM D7647	>.1 >1000 limit/base >5000	2 3 0.030 304 current 723	0 0 0.014 144 history1 742	0 1 0.017 179 history2 865
Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm	ppm % ppm	ASTM D5185m ASTM D6304 ASTM D6304 <b>method</b> ASTM D7647 ASTM D7647	>.1 >1000 limit/base >5000 >1300	2 3 0.030 304 <u>current</u> 723 213	0 0.014 144 <u>history1</u> 742 263	0 1 0.017 179 history2 865 314
Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm	ppm % ppm	ASTM D5185m ASTM D6304 ASTM D6304 Method ASTM D7647 ASTM D7647 ASTM D7647	>.1 >1000 limit/base >5000 >1300 >160	2 3 0.030 304 <u>current</u> 723 213 12	0 0 0.014 144 <u>history1</u> 742 263 56	0 1 0.017 179 history2 865 314 37
Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm	ppm % ppm	ASTM D5185m ASTM D6304 ASTM D6304 Method ASTM D7647 ASTM D7647 ASTM D7647	>.1 >1000 limit/base >5000 >1300 >160 >40	2 3 0.030 304 <u>current</u> 723 213 12 2	0 0 0.014 144 <u>history1</u> 742 263 56 12	0 1 0.017 179 history2 865 314 37 12
Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm	ppm % ppm	ASTM D5185m ASTM D6304 ASTM D6304 Method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>.1 >1000 limit/base >5000 >1300 >160 >40 >10	2 3 0.030 304 <u>current</u> 723 213 12 2 2 0	0 0 0.014 144 <u>history1</u> 742 263 56 12 12	0 1 0.017 179 history2 865 314 37 12 3
Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm Particles >71µm	ppm % ppm	ASTM D5185m ASTM D6304 ASTM D6304 Method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>.1 >1000 limit/base >5000 >1300 >160 >40 >10 >3	2 3 0.030 304 <u>current</u> 723 213 12 2 2 0 0 0	0 0.014 144 <u>history1</u> 742 263 56 12 1 1 0	0 1 0.017 179 history2 865 314 37 12 3 12 3 1
Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm	ppm % ppm	ASTM D5185m ASTM D6304 ASTM D6304 Method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>.1 >1000 limit/base >5000 >1300 >160 >40 >10	2 3 0.030 304 <u>current</u> 723 213 12 2 2 0	0 0 0.014 144 <u>history1</u> 742 263 56 12 12	0 1 0.017 179 history2 865 314 37 12 3
Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm Particles >71µm	ppm % ppm ESS	ASTM D5185m ASTM D6304 ASTM D6304 Method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>.1 >1000 limit/base >5000 >1300 >160 >40 >10 >3	2 3 0.030 304 <u>current</u> 723 213 12 2 2 0 0 0	0 0.014 144 <u>history1</u> 742 263 56 12 1 1 0	0 1 0.017 179 history2 865 314 37 12 3 12 3 1



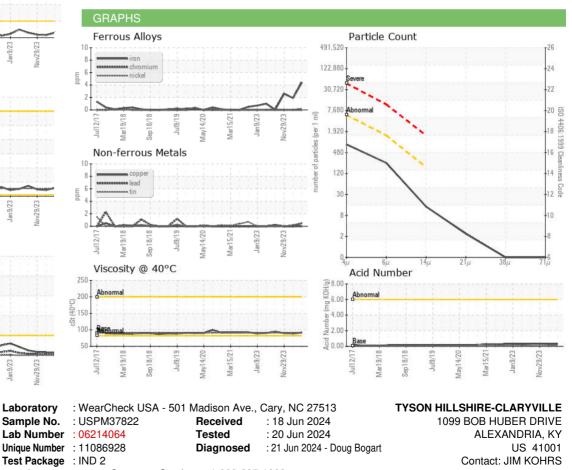
# **OIL ANALYSIS REPORT**







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
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	91.6	88.6	89.7
SAMPLE IMAGES	6	method	limit/base	current	history1	history2
Color						
Bottom						



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) T: (859)635-8901 F:

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Certificate 12367

Contact/Location: JIM KOHRS - TYSALE Page 2 of 2