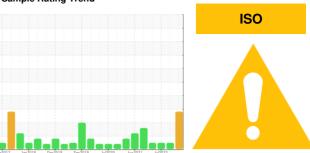


# **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id

# **BUSCH PR5-504 S2 (S/N C4507)**

Pump

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

### **DIAGNOSIS**

### Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

All component wear rates are normal.

## Contamination

There is a high amount of particulates present in the oil. There is a trace of moisture present in the

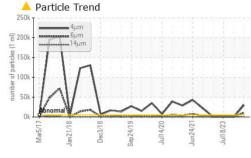
### **Fluid Condition**

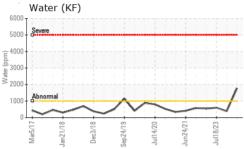
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

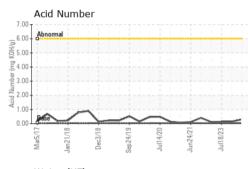
1ar2017 Jan2018 Dex2018 Sep2019 Jun2020 Jun2021 Jun2023									
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2			
Sample Number		Client Info		USPM37802	USPM30843	USPM27900			
Sample Date		Client Info		01 Jun 2024	17 Nov 2023	18 Jul 2023			
Machine Age	hrs	Client Info		0	0	0			
Oil 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	>90	4	4	5			
Chromium	ppm	ASTM D5185m	>5	0	<1	0			
Nickel	ppm	ASTM D5185m	>5	<1	0	<1			
Titanium	ppm	ASTM D5185m	>3	0	<1	0			
Silver	ppm	ASTM D5185m	>3	0	0	0			
Aluminum	ppm	ASTM D5185m	>7	<1	2	<1			
Lead	ppm	ASTM D5185m	>12	0	<1	0			
Copper	ppm	ASTM D5185m	>30	2	<1	<1			
Tin	ppm	ASTM D5185m	>9	<1	<1	0			
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	<1	0	0			
Barium	ppm	ASTM D5185m	0	0	0	<1			
Molybdenum	ppm	ASTM D5185m	0	0	<1	0			
Manganese	ppm	ASTM D5185m		<1	0	0			
Magnesium	ppm	ASTM D5185m	0	<1	0	0			
Calcium	ppm	ASTM D5185m	0	0	2	2			
Phosphorus	ppm	ASTM D5185m	1800	1034	876	921			
Zinc	ppm	ASTM D5185m	0	9	0	1			
Sulfur	ppm	ASTM D5185m	0	19	0	26			
CONTAMINANTS		method	limit/base	current	history1	history2			
Silicon	ppm	ASTM D5185m	>60	20	18	17			
Sodium	ppm	ASTM D5185m		2	0	0			
Potassium	ppm	ASTM D5185m	>20	4	2	<1			
Water	%	ASTM D6304	>.1	0.177	0.038	0.059			
ppm Water	ppm	ASTM D6304	>1000	1779	388	598.6			
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2			
Particles >4μm		ASTM D7647	>5000	<b>29978</b>	255	436			
Particles >6µm		ASTM D7647	>1300	<b>10611</b>	81	132			
Particles >14µm		ASTM D7647	>160	<u>▲</u> 637	9	11			
Particles >21µm		ASTM D7647	>40	<u>^</u> 229	3	3			
Particles >38µm		ASTM D7647	>10	<u> </u>	0	0			
Particles >71µm		ASTM D7647	>3	<u> </u>	0	0			
Oil Cleanliness		ISO 4406 (c)	>19/17/14	△ 22/21/16	15/14/10	16/14/11			
FLUID DEGRADA	TION	method	limit/base	current	history1	history2			
Acid Number (AN)	mg KOH/g	ASTM D8045	0.05	0.29	0.15	0.13			

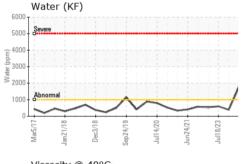


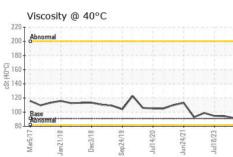
# **OIL ANALYSIS REPORT**









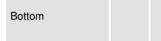


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	LIGHT	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IEQ	method	limit/base	ourropt	history1	history2
FLUID PROPERI	ILO	method	IIIIII/Dase	current	HISTORYT	HIStory2
Visc @ 40°C	cSt	ASTM D445	91	91.5	94.1	94.7

limit/base

method

Color



SAMPLE IMAGES



history1

current



history2

**GRAPHS** Ferrous Alloys Particle Count 491.520 122,880 30.72 1,920 Non-ferrous Metals 480 120 Viscosity @ 40°C Acid Number 250 00.8 (mg KOH/g) 00.9 4.00 200 (5° 05) SS 00.00 PG





Certificate 12367

Laboratory Sample No.

: USPM37802 Lab Number : 06214032 Unique Number : 11086896 Test Package : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 18 Jun 2024

**Tested** : 20 Jun 2024 Diagnosed : 21 Jun 2024 - Doug Bogart Emporia, KS US 66801

Contact: SERVICE MANAGER

**TYSON-Emporia-USP** 

2101 West Sixth

T: (620)343-3640

F: (620)340-1253

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)