

# **OIL ANALYSIS REPORT**

## Sample Rating Trend



# BUSCH CV3 RIB PRIMARY (S/N 55900070)

**Vacuum Pump** 

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

### 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 oil viscosity is lower than normal. Confirmed. The AN level is acceptable for this fluid.

62016 Nov2017 Feb2019 Nov2018 Oc2020 Aug2021 Jul2022 Apr2023 Mar20.						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USPM30473	USPM31826	USPM29215
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				ATTENTION	MARGINAL	ATTENTION
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	8	14	27
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	2	2
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>20	0	0	<1
Tin	ppm	ASTM D5185m	>20	<1	0	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	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	<1	<1
Calcium	ppm	ASTM D5185m	0	0	7	2
Phosphorus	ppm	ASTM D5185m	1800	462	764	973
Zinc	ppm	ASTM D5185m	0	16	4	98
Sulfur	ppm	ASTM D5185m	0	0	0	0
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	6	<u> </u>	11
Sodium	ppm	ASTM D5185m		3	4	<1
Potassium	ppm	ASTM D5185m	>20	0	<1	<1
Water	%	ASTM D6304	>.1	0.007	0.038	0.069
ppm Water	ppm	ASTM D6304	>1000	72	383	695.7
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	1389	581	508
Particles >6µm		ASTM D7647	>1300	553	137	125
Particles >14μm		ASTM D7647	>160	107	14	12
Particles >21µm		ASTM D7647	>40	33	5	4
Particles >38μm		ASTM D7647	>10	0	0	0
Particles >71μm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	18/16/14	16/14/11	16/14/11
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.05	0.25	0.092	0.32



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

T: (641)683-4741

F: (641)683-4731