

OIL ANALYSIS REPORT

Sample Rating Trend



BUSCH CV8 NORTH EXP PRIMARY BOTTO

Component

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.

OM (S/N 5590069)	Aug2023
AMPLE INFORMATION method limit/base current	
nple Number Client Info USPM30467	USPM:
nple Date Client Info 18 Mar 2024	10 Dec

Sample Number		Client Info		USPM30467	USPM31912	USPM29214
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	ATTENTION	ATTENTION
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	0	1	<1
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	0	<1	0
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>20	0	0	0
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	2
Calcium	ppm	ASTM D5185m	0	0	1	<1
Phosphorus	ppm	ASTM D5185m	1800	465	659	587
Zinc	ppm	ASTM D5185m	0	37	31	43
Sulfur	ppm	ASTM D5185m	0	0	0	0
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	12	15	13
Sodium	ppm	ASTM D5185m		17	14	9
Potassium	ppm	ASTM D5185m	>20	0	0	<1
Water	%	ASTM D6304	>.1	0.007	0.014	0.030
ppm Water	ppm	ASTM D6304	>1000	74	144	303.5
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	760	2569	627
Particles >6µm		ASTM D7647	>1300	131	300	83
Particles >14μm		ASTM D7647	>160	3	7	9
Particles >21µm		ASTM D7647		2	3	4
Particles >38µm		ASTM D7647	>10	1	0	1
Particles >71μm		ASTM D7647		1	0	1
Oil Cleanliness		ISO 4406 (c)	>19/17/14	17/14/9	19/15/10	16/14/10
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.05	0.17	0.18	0.26



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

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