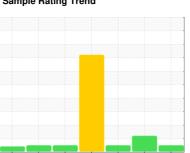


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



BUSCH VP-4C (S/N U061301619)

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

		May2022	Aug2022 Aug2022	Dec2022 Mar2023 Jun2023	Sep2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USPM29754	USPM27153	USPM27576
Sample Date		Client Info		23 Sep 2023	25 Jun 2023	13 Mar 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				NORMAL	ATTENTION	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	0	<1	0
Chromium	ppm	ASTM D5185m	>20	0	<1	0
Nickel	ppm	ASTM D5185m	>20	0	<1	0
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	3	1	0
Lead	ppm	ASTM D5185m	>20	0	2	0
Copper	ppm	ASTM D5185m	>20	<1	<1	0
Tin	ppm	ASTM D5185m	>20	<1	2	<1
Vanadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	<1	0
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	<1	<1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	0	<1	0	0
Calcium	ppm	ASTM D5185m	0	<1	0	0
Phosphorus	ppm	ASTM D5185m	1800	689	781	699
Zinc	ppm	ASTM D5185m	0	0	0	3
Sulfur	ppm	ASTM D5185m	0	22	18	0
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	2	6	5
Sodium	ppm	ASTM D5185m		0	0	0
Potassium	ppm	ASTM D5185m	>20	2	3	<1
Water	%	ASTM D6304	>.1	0.092	0.061	0.039
ppm Water	ppm	ASTM D6304	>1000	929.1	619.5	392.9
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	1092	<u></u> 5637	109
Particles >6µm		ASTM D7647	>1300	339	<u>▲</u> 1653	26
Particles >14µm		ASTM D7647	>160	37	127	3
Particles >21µm		ASTM D7647	>40	12	31	1
Particles >38µm		ASTM D7647	>10	2	4	1
Particles >71µm		ASTM D7647	>3	1	1	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	17/16/12	2 0/18/14	14/12/9
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.05	0.079	0.186	0.059



OIL ANALYSIS REPORT

