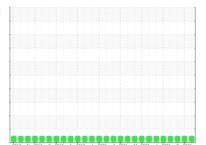


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id

BUSCH TYSWALWAS VAC 5A (S/N U072103447)

Compone **Pump**

USPI VAC 100 (--- GAL)

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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.

		in2017 Nov20	17 Sep2018 Aug2019 Ju	in2020 Apr2021 Mar2022 Jan202	3 Dec2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USPM36364	USPM31853	USPM29080
Sample Date		Client Info		29 May 2024	12 Dec 2023	01 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				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	56	83	83
Chromium	ppm	ASTM D5185m	>5	<1	0	0
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m	>3	<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>7	2	0	<1
Lead	ppm	ASTM D5185m	>12	<1	0	0
Copper	ppm	ASTM D5185m	>30	<1	<1	<1
Tin	ppm	ASTM D5185m	>9	<1	1	<1
Vanadium	ppm	ASTM D5185m		0	<1	<1
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	0
Barium	ppm	ASTM D5185m	0	<1	0	0
Molybdenum	ppm	ASTM D5185m	0	<1	0	0
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	0	<1	0	0
Calcium	ppm	ASTM D5185m	0	4	0	0
Phosphorus	ppm	ASTM D5185m	1800	927	1173	1254
Zinc	ppm	ASTM D5185m	0	2	0	0
Sulfur	ppm	ASTM D5185m	0	0	22	0
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>60	3	2	2
Sodium	ppm	ASTM D5185m		10	18	14
Potassium	ppm	ASTM D5185m	>20	3	5	5
Water	%	ASTM D6304		0.061	0.025	0.033
ppm Water	ppm	ASTM D6304	>1000	612	256	339.9
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	1002	886	132
Particles >6µm		ASTM D7647	>1300	206	272	44
Particles >14µm		ASTM D7647	>160	31	33	5
Particles >21µm		ASTM D7647	>40	14	10	3
Particles >38µm		ASTM D7647	>10	0	0	0
Particles >71µm		ASTM D7647		0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	17/15/12	17/15/12	14/13/10
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.05	0.62	0.58	0.58



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No. Lab Number

: USPM36364 : 06195479 Unique Number : 11057602

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 30 May 2024 Tested : 31 May 2024 : 31 May 2024 - Doug Bogart

Diagnosed Test Package : IND 2

To discuss this sample report, contact Customer Service at 1-800-237-1369.

 st - 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)

Report Id: TYSWAL [WUSCAR] 06195479 (Generated: 05/31/2024 20:31:32) Rev: 1

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