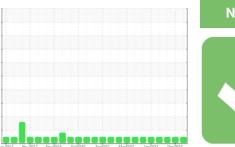


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id

BUSCH TYSWALWAS VAC 3A (S/N NO PLATE)

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 component. The amount and size of particulates present in the system is acceptable.

Fluid Condition

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

wz017 Nev2017 Nev2019 Oez0200 Apr2021 Mw2022 Jan2023 Oec2023									
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2			
Sample Number		Client Info		USPM36362	USPM31862	USPM29083			
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	51	39	27			
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	<1	2			
Lead	ppm	ASTM D5185m	>12	<1	0	0			
Copper	ppm	ASTM D5185m	>30	<1	<1	0			
Tin	ppm	ASTM D5185m	>9	<1	<1	0			
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	1	0			
Barium	ppm	ASTM D5185m	0	<1	0	0			
Molybdenum	ppm	ASTM D5185m	0	<1	0	0			
Manganese	ppm	ASTM D5185m		0	0	0			
Magnesium	ppm	ASTM D5185m	0	0	0	0			
Calcium	ppm	ASTM D5185m	0	0	0	0			
Phosphorus	ppm	ASTM D5185m	1800	1419	1345	1542			
Zinc	ppm	ASTM D5185m	0	2	0	0			
Sulfur	ppm	ASTM D5185m	0	0	13	0			
CONTAMINANTS		method	limit/base	current	history1	history2			
Silicon	ppm	ASTM D5185m	>60	2	2	<1			
Sodium	ppm	ASTM D5185m		7	6	2			
Potassium	ppm	ASTM D5185m	>20	2	1	2			
Water	%	ASTM D6304	>.1	0.05	0.028	0.039			
ppm Water	ppm	ASTM D6304	>1000	500	285	398.0			
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2			
Particles >4µm		ASTM D7647	>5000	806	274	1767			
Particles >6µm		ASTM D7647	>1300	126	100	538			
Particles >14µm		ASTM D7647	>160	18	10	45			
Particles >21µm		ASTM D7647	>40	6	3	9			
Particles >38µm		ASTM D7647	>10	0	1	1			
Particles >71µm		ASTM D7647	>3	0	0	0			
Oil Cleanliness		ISO 4406 (c)	>19/17/14	17/14/11	15/14/10	18/16/13			
FLUID DEGRADA	TION	method	limit/base	current	history1	history2			
Acid Number (AN)	mg KOH/g	ASTM D8045	0.05	0.45	0.32	0.27			



OIL ANALYSIS REPORT







Certificate 12367

Sample No. Lab Number Test Package : IND 2

Laboratory : 06195481 Unique Number : 11057604

: USPM36362

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 30 May 2024 **Tested** : 03 Jun 2024

Diagnosed : 05 Jun 2024 - Doug Bogart **TYSON - PASCO WALLULA -USP** DODD RD

WALLULA, WA US 99363

T: (402)423-6375

F: (402)423-6661

Contact: RICK DUVALL

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)

Contact/Location: RICK DUVALL - TYSWAL

Report Id: TYSWAL [WUSCAR] 06195481 (Generated: 06/06/2024 07:44:09) Rev: 1