

PROBLEM SUMMARY

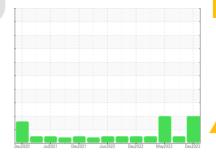
Sample Rating Trend

ISO

B5 TUMBLER

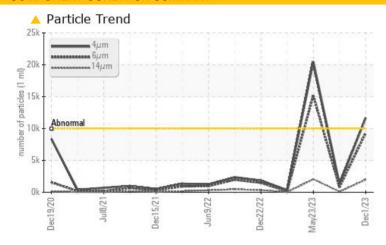
Component Pump Fluid

USPI VAC 100 (--- LTR)





COMPONENT CONDITION SUMMARY



RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS								
Sample Status		ABNORMAL	NORMAL	ABNORMAL				
Particles >4µm	ASTM D7647 >100	00 🔺 11676	1283	<u>^</u> 20462				
Particles >6µm	ASTM D7647 >250	0 4 9329	782	<u></u> 15184				
Particles >14µm	ASTM D7647 >640	1988	102	<u>^</u> 2050				
Particles >21µm	ASTM D7647 >160	<u> </u>	15	<u> </u>				
Oil Cleanliness	ISO 4406 (c) >20/1	8/16 4 21/20/18	17/17/14	<u>^</u> 22/21/18				

Customer Id: KRADAV Sample No.: USPM31947 Lab Number: 06027775 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Doug Bogart +1 (800)237-1369 x4016 dougb@wearcheckusa.com

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Filter			?	We recommend you service the filters on this component.

HISTORICAL DIAGNOSIS

17 Aug 2023 Diag: Doug Bogart

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

23 May 2023 Diag: Doug Bogart

150



We recommend you service the filters on this component. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



31 Mar 2023 Diag: Doug Bogart

NORMAL



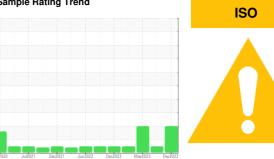
Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT

Sample Rating Trend



B5 TUMBLER

Component

Pump

USPI VAC 100 (--- LTR)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a high amount of particulates present in the oil.

Fluid Condition

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

	Dec2020	Jul2021 Dec2021	Jun2022 Dec2022 May2023	Dec2023	
SAMPLE INFORMATION	ON method	limit/base	current	history1	history2
Sample Number	Client Info		USPM31947	USPM29397	USPM28410
Sample Date	Client Info		01 Dec 2023	17 Aug 2023	23 May 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			ABNORMAL	NORMAL	ABNORMAL
WEAR METALS	method	limit/base	current	history1	history2
Iron ppn	n ASTM D5185m	>90	0	<1	1
Chromium ppn	n ASTM D5185m	>5	<1	0	<1
Nickel ppn	n ASTM D5185m	>5	0	0	<1
Titanium ppn	n ASTM D5185m	>3	<1	0	0
Silver ppn	n ASTM D5185m	>3	0	0	0
Aluminum ppn	n ASTM D5185m	>7	0	0	0
Lead ppn	n ASTM D5185m	>12	0	0	1
Copper ppn	n ASTM D5185m	>30	0	0	0
Tin ppn		>9	0	<1	<1
Vanadium ppn	n ASTM D5185m		0	0	0
Cadmium ppn	n ASTM D5185m		0	0	0
ADDITIVES	method	limit/base	current	history1	history2
Boron ppn	n ASTM D5185m	0	0	0	0
Barium ppn	n ASTM D5185m	0	0	0	0
Molybdenum ppn	n ASTM D5185m	0	0	0	0
Manganese ppn	n ASTM D5185m		0	0	<1
Magnesium ppn	n ASTM D5185m	0	<1	1	0
Calcium ppn		0	0	2	<1
Phosphorus ppn		1800	940	956	1395
Zinc ppn		0	0	0	0
Sulfur ppn		0	0	17	0
CONTAMINANTS	method	limit/base	current	history1	history2
Silicon ppn	n ASTM D5185m	>60	11	9	6
Sodium ppn			0	0	0
Potassium ppn		>20	<1	0	2
Water %	ASTM D6304		0.019	0.060	0.059
ppm Water ppn		>1000	199	608.0	593.4
FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>10000	11676	1283	△ 20462
Particles >6µm	ASTM D7647	>2500	9329	782	<u></u> 15184
Particles >14µm	ASTM D7647	>640	<u>▲</u> 1988	102	△ 2050
Particles >21µm	ASTM D7647	>160	<u>^</u> 216	15	<u> </u>
Particles >38µm	ASTM D7647	>40	0	1	1
Particles >71μm	ASTM D7647	>10	0	1	0
Oil Cleanliness	ISO 4406 (c)	>20/18/16	△ 21/20/18	17/17/14	△ 22/21/18
FLUID DEGRADATION	N method	limit/base	current	history1	history2
Acid Number (AN) mg K(DH/g ASTM D8045	0.05	0.08	0.22	



OIL ANALYSIS REPORT







Certificate L2367

Sample No. Lab Number **Unique Number**

Test Package

: USPM31947 : 06027775

: 10777566 : IND 2

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

Received : 07 Dec 2023 Diagnosed Diagnostician

: 08 Dec 2023 : Doug Bogart 9401 GRANITE DRIVE DAVENPORT, IA US 52802

Contact: JOHN KONRAD

john.konrad@kraftheinz.com T:

* - 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: JOHN KONRAD - KRADAV

F: (563)326-8391