

## **PROBLEM SUMMARY**

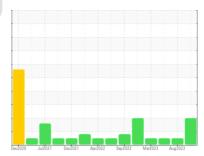
#### Sample Rating Trend



# B4 TUMBLER

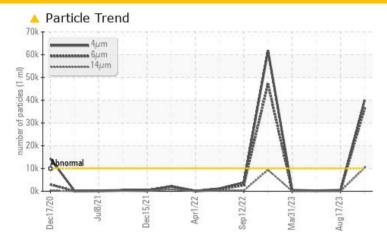
Component Pump Fluid

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		Α	BNORMAL	NORMAL	NORMAL			
Particles >4µm	ASTM D7647 >	10000	40021	530	308			
Particles >6µm	ASTM D7647 >	2500 🔺	36324	248	214			
Particles >14μm	ASTM D7647 >	640	10348	43	52			
Particles >21μm	ASTM D7647 >	160	1060	10	8			
Oil Cleanliness	ISO 4406 (c) >2	20/18/16	23/22/21	16/15/13	15/15/13			

Customer Id: KRADAV Sample No.: USPM31929 Lab Number: 06027771 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.



#### 23 May 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

#### 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



# B4 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.

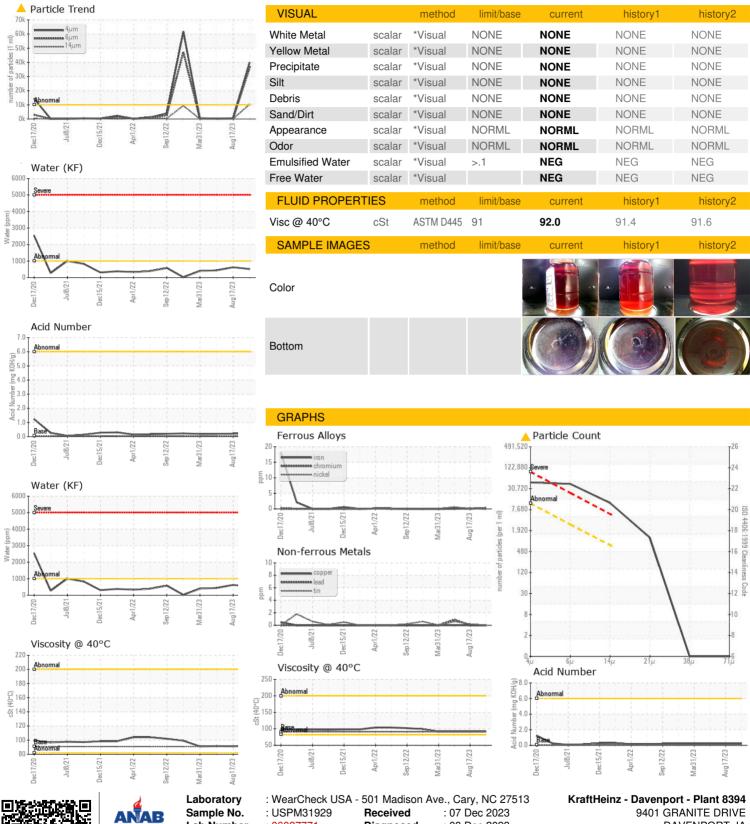
#### **Fluid Condition**

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

		Dec2020 J	ul2021 Dec2021 Apr	2022 Sep2022 Mar2023	Aug2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USPM31929	USPM29392	USPM28409
Sample Date		Client Info		30 Nov 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	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	0	<1	0
Chromium	ppm	ASTM D5185m	>5	<1	0	<1
Nickel	ppm	ASTM D5185m	>5	0	0	<1
Titanium	ppm	ASTM D5185m	>3	<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>7	0	0	0
Lead	ppm	ASTM D5185m	>12	0	0	<1
Copper	ppm	ASTM D5185m	>30	0	0	0
Tin	ppm	ASTM D5185m	>9	0	<1	<1
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	<1
Magnesium	ppm	ASTM D5185m	0	0	0	0
Calcium	ppm	ASTM D5185m	0	0	2	<1
Phosphorus	ppm	ASTM D5185m	1800	1049	1114	1110
Zinc	ppm	ASTM D5185m	0	0	0	0
Sulfur	ppm	ASTM D5185m	0	0	29	0
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon		ASTM D5185m	>60	11	11	8
Sodium	ppm	ASTM D5185m	>00	0	0	0
Potassium	ppm	ASTM D5185m	>20	1	0	2
Water	ppm %	ASTM D5165111		0.051	0.062	0.043
ppm Water	ppm	ASTM D6304 ASTM D6304	>.1	514	623.0	436.4
FLUID CLEANLIN		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	▲ 40021	530	308
Particles >6µm		ASTM D7647	>2500	▲ 36324	248	214
Particles >14µm		ASTM D7647	>640	▲ 10348	43	52
Particles >14µm		ASTM D7647	>160	▲ 1060	10	8
·						
Particles >38µm		ASTM D7647	>40	0	0	1
Particles >71µm		ASTM D7647	>10	0	16/15/12	0
Oil Cleanliness		ISO 4406 (c)	>20/18/16	<u>23/22/21</u>	16/15/13	15/15/13
FLUID DEGRADA		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.05	0.24	0.21	0.20



### OIL ANALYSIS REPORT







Certificate L2367

Lab Number

**Unique Number** Test Package

: 06027771 : 10777562 : IND 2

Diagnosed Diagnostician

: 08 Dec 2023 : Doug Bogart

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

\* - 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) DAVENPORT, IA US 52802

Contact: JOHN KONRAD

john.konrad@kraftheinz.com T:

F: (563)326-8391