

# **PROBLEM SUMMARY**

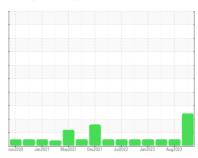
Sample Rating Trend

ISO

# 8 - BIH L2 (S/N U091902359)

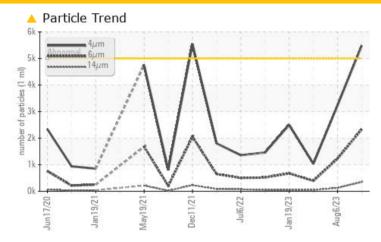
Component Pump Fluid

USPI VAC 100 (--- GAL)





#### **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	NORMAL			
Particles >4µm	ASTM D7647	>5000	<b>△</b> 5488	3240	1037			
Particles >6µm	ASTM D7647	>1300	<b>2332</b>	1234	394			
Particles >14μm	ASTM D7647	>160	<b>4</b> 350	128	46			
Particles >21μm	ASTM D7647	>40	<b>108</b>	32	13			
Particles >38μm	ASTM D7647	>10	<u> </u>	1	1			
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<u> </u>	19/17/14	17/16/13			

Customer Id: SMIKIN Sample No.: USPM31189 Lab Number: 06000565 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

06 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.



#### 26 Apr 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

#### 19 Jan 2023 Diag: Jonathan Hester

#### 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

ISO

Machine Id

# 8 - BIH L2 (S/N U091902359)

Componen

Pump

**USPI VAC 100 (--- GAL)** 

#### 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.

		Jun2020 Ja	n2021 May2021 Dec	2021 Jul2022 Jan2023	Aug2023	
SAMPLE INFORMA	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USPM31189	USPM29114	USPM28752
Sample Date		Client Info		06 Nov 2023	06 Aug 2023	26 Apr 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	<1
Chromium	ppm	ASTM D5185m	>5	0	0	0
Nickel	ppm	ASTM D5185m	>5	<1	0	<1
Titanium	ppm	ASTM D5185m	>3	0	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>7	0	0	0
Lead	ppm	ASTM D5185m	>12	<1	0	0
Copper	ppm	ASTM D5185m	>30	<1	0	0
Tin	ppm	ASTM D5185m	>9	0	0	0
Vanadium	ppm	ASTM D5185m		0	<1	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
·	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	0	0	0	<1
Calcium	ppm	ASTM D5185m	0	<1	0	0
Phosphorus	ppm	ASTM D5185m	1800	1160	1445	1417
Zinc	ppm	ASTM D5185m	0	0	0	0
Sulfur	ppm	ASTM D5185m	0	18	0	15
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>60	3	4	4
Sodium	ppm	ASTM D5185m		<1	0	0
Potassium	ppm	ASTM D5185m	>20	<1	0	<1
Water	%	ASTM D6304	>.1	0.044	0.048	0.063
ppm Water	ppm	ASTM D6304	>1000	442.6	486.7	630.6
FLUID CLEANLINE	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<b>△</b> 5488	3240	1037
Particles >6μm		ASTM D7647	>1300	<u>^</u> 2332	1234	394
Particles >14μm		ASTM D7647	>160	<b>△</b> 350	128	46
Particles >21µm		ASTM D7647	>40	<u> </u>	32	13
Particles >38µm		ASTM D7647	>10	<u> </u>	1	1
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u>^</u> 20/18/16	19/17/14	17/16/13
FLUID DEGRADAT	TION	method	limit/base	current	history1	history2

Acid Number (AN)

0.17

0.16

mg KOH/g ASTM D8045 0.05

0.14



### **OIL ANALYSIS REPORT**

