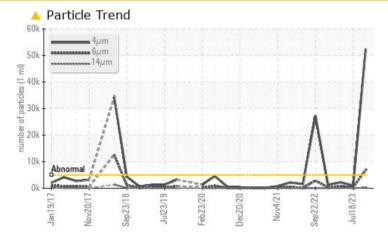


# **PROBLEM SUMMARY**

# Nachine Id VAC LL-6 (S/N F13093U96127) 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	<u> </u>	962	2261	
Particles >6µm	ASTM D7647	>1300	<b>6804</b>	271	764	
Particles >14µm	ASTM D7647	>160	<u> </u>	14	97	
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<b>A</b> 23/20/15	17/15/11	18/17/14	

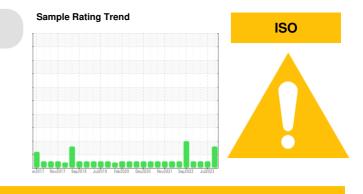
Customer Id: SMISPRIOHI Sample No.: USPM31147 Lab Number: 05998037 Test Package: IND 2



To manage this report scan the QR code

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

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



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

# HISTORICAL DIAGNOSIS

### 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

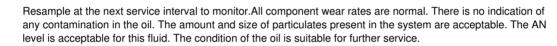
# 14 Apr 2023 Diag: Doug Bogart

18 Jul 2023 Diag: Doug Bogart



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.

02 Jan 2023 Diag: Doug Bogart











# **OIL ANALYSIS REPORT**

Sample Rating Trend

# ISO

# VAC LL-6 (S/N F13093U96127)

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

# DIAGNOSIS

Component Pump

### 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.

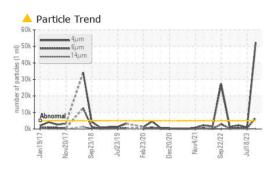
### Fluid Condition

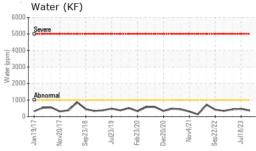
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

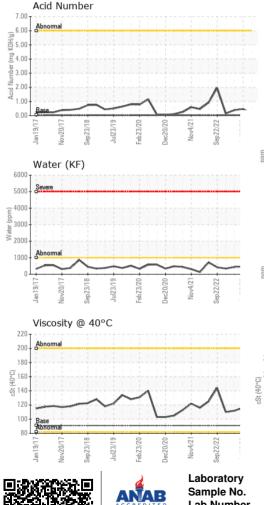
SAMPLE INFORM	<b>IATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		USPM31147	USPM5905499	USPM28629
Sample Date		Client Info		02 Nov 2023	18 Jul 2023	14 Apr 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	4	4	2
Chromium	ppm	ASTM D5185m	>5	0	0	0
Nickel	ppm	ASTM D5185m	>5	<1	0	0
Titanium	ppm	ASTM D5185m	>3	0	0	0
Silver	ppm	ASTM D5185m	>3	0	<1	0
Aluminum	ppm	ASTM D5185m	>7	2	0	0
Lead	ppm	ASTM D5185m	>12	<1	0	0
Copper	ppm	ASTM D5185m	>30	0	<1	0
Tin	ppm	ASTM D5185m	>9	1	0	0
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	<1	0
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m	0	2	0	<1
Calcium	ppm	ASTM D5185m	0	2	0	<1
Phosphorus	ppm	ASTM D5185m	1800	782	1540	1701
Zinc	ppm	ASTM D5185m	0	0	2	<1
Sulfur	ppm	ASTM D5185m	0	36	0	2
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>60	8	5	4
Sodium	ppm	ASTM D5185m		0	0	<1
Potassium	ppm	ASTM D5185m	>20	<1	1	0
Water	%	ASTM D6304	>.1	0.036	0.046	0.042
ppm Water	ppm	ASTM D6304	>1000	360.0	469.3	429.0
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<u> </u>	962	2261
Particles >6µm		ASTM D7647		<u> </u>	271	764
Particles >14µm		ASTM D7647	>160	<u> </u>	14	97
Particles >21µm		ASTM D7647		28	3	26
Particles >38µm		ASTM D7647	>10	1	0	3
Particles >71µm		ASTM D7647		0	0	1
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>A</b> 23/20/15	17/15/11	18/17/14
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.05	0.10	0.47	0.39



# **OIL ANALYSIS REPORT**

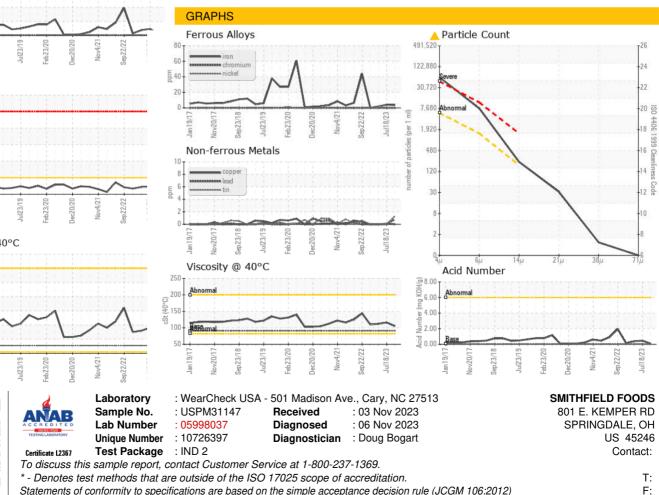






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	91	105	116	112
SAMPLE IMAGES	S	method	limit/base	current	history1	history2
Color				•		

Bottom



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: ? ? - SMISPRIOHI

Page 4 of 4