

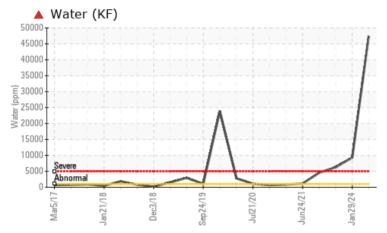
PROBLEM SUMMARY

Machine Id BUSCH 8600 VA S1 (S/N 400501-1)

Pump Fluid

USPI VAC 100 (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you follow the water drain-off procedure for this component, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. We were unable to perform a particle count due to a high concentration of particles present in this sample.

PROBLEMATIC TEST RESULTS							
Sample Status				SEVERE	ABNORMAL	ABNORMAL	
Water	%	ASTM D6304	>.1	4 .74	▲ 0.930	▲ 0.626	
ppm Water	ppm	ASTM D6304	>1000	47400	9 302	6260	
Silt	scalar	*Visual	NONE	A MODER	NONE	NONE	
Emulsified Water	scalar	*Visual	>.1	0.2%	NEG	▲ 0.2%	

Customer Id: IBPEMP01 Sample No.: USPM37781 Lab Number: 06214053 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 customerservice@wearcheck.com



RECOMM	IENDED	ACTION

Action	Status	Date	Done By
Water Drain-off			?
Resample			?
Alert			?

Description

We advise that you follow the water drain-off procedure for this component, and use off-line filtration to improve the cleanliness of the system fluid.

We recommend an early resample to monitor this condition.

We were unable to perform a particle count due to a high concentration of particles present in this sample.

HISTORICAL DIAGNOSIS



29 Jan 2024 Diag: Doug Bogart

We advise an early resample to confirm this situation. Insufficient sample was received to conduct all the routine laboratory tests. All component wear rates are normal. There is a high concentration of water present in the oil. The condition of the oils additive package appears suitable for further service.





06 Sep 2022 Diag: Doug Bogart

We advise that you follow the water drain-off procedure for this component and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. We were unable to perform a particle count due to a high concentration of particles and water present in this sample.All component wear rates are normal. Appearance is hazy. High concentration of visible dirt/debris present in the oil. There is a moderate concentration of water present in the oil. Free water present. The AN level is acceptable for this fluid.



11 Nov 2021 Diag: Doug Bogart



We advise that you follow the water drain-off procedure for this component and use off-line filtration to improve the cleanliness of the system fluid. 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. There is a moderate concentration of water present in the oil. Free water present. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT

Sample Rating Trend

WATER

Machine Id

BUSCH 8600 VA S1 (S/N 400501-1)

Pump Fluid

USPI VAC 100 (--- GAL)

DIAGNOSIS

Recommendation

We advise that you follow the water drain-off procedure for this component, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. We were unable to perform a particle count due to a high concentration of particles present in this sample.

Wear

All component wear rates are normal.

Contamination

Appearance is unacceptable. There is a high concentration of water present in the oil. There is a moderate amount of visible silt present in the sample.

Fluid Condition

The AN level is acceptable for this fluid. The oil is no longer serviceable due to the presence of contaminants.

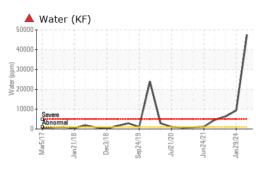
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USPM37781	USPM30860	USPR000718
Sample Date		Client Info		01 Jun 2024	29 Jan 2024	06 Sep 2022
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	7	<1	3
Chromium	ppm	ASTM D5185m	>5	0	<1	0
Nickel	ppm	ASTM D5185m	>5	1	0	0
Titanium	ppm	ASTM D5185m	>3	0	<1	0
Silver	ppm	ASTM D5185m	>3	<1	0	<1
Aluminum	ppm	ASTM D5185m	>7	2	2	1
Lead	ppm	ASTM D5185m	>12	<1	0	<1
Copper	ppm		>30	<1	<1	<1
Tin	ppm	ASTM D5185m	>9	3	<1	<1
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	7	0	1
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	<1	0
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m	0	3	0	<1
Calcium	ppm	ASTM D5185m	0	6	<1	2
Phosphorus	ppm	ASTM D5185m	1800	1619	1391	1540
Zinc	ppm	ASTM D5185m	0	6	0	<1
Sulfur	ppm	ASTM D5185m	0	63	0	31
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>60	3	1	2
Sodium	ppm	ASTM D5185m		26	0	0
Potassium	ppm	ASTM D5185m		5	1	1
Water	%	ASTM D6304	>.1	4 .74	▲ 0.930	▲ 0.626
ppm Water	ppm	ASTM D6304	>1000	47400	9 302	6260
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000			
Particles >6µm		ASTM D7647	>1300			
Particles >14µm		ASTM D7647	>160			
Particles >21µm		ASTM D7647	>40			
Particles >38µm		ASTM D7647	>10			
Particles >71µm		ASTM D7647	>3			
Oil Cleanliness		ISO 4406 (c)	>19/17/14			
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.05	0.35		0.37

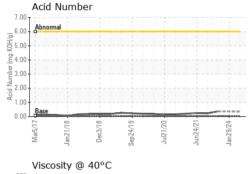
Report Id: IBPEMP01 [WUSCAR] 06214053 (Generated: 06/23/2024 05:17:11) Rev: 1

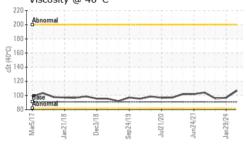
Contact/Location: SERVICE MANAGER - IBPEMP01



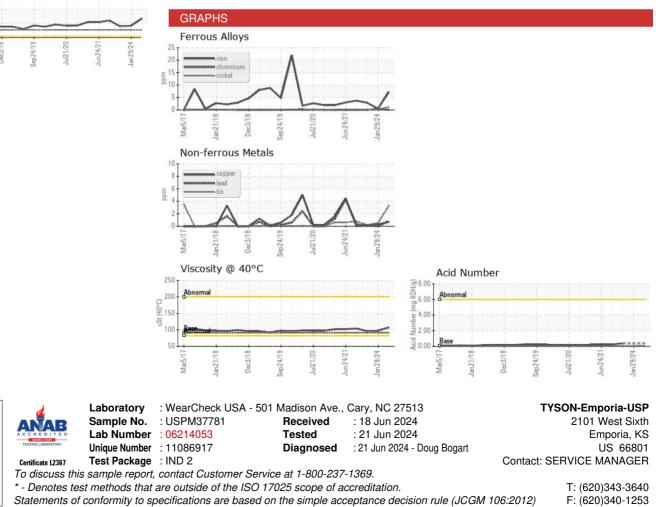
OIL ANALYSIS REPORT







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	🔺 MODER	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	🔺 HEAVY
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	🛑 HAZY	NORML	- HAZY
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>.1	0.2%	NEG	▲ 0.2%
Free Water	scalar	*Visual		NEG	NEG	1 .0
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	91	107	96.8	95.7
SAMPLE IMAGES	3	method	limit/base	current	history1	history2
Color						HIM HA-SI SAR2OS HIFRO M
Bottom						



Report Id: IBPEMP01 [WUSCAR] 06214053 (Generated: 06/23/2024 05:17:11) Rev: 1

Contact/Location: SERVICE MANAGER - IBPEMP01