



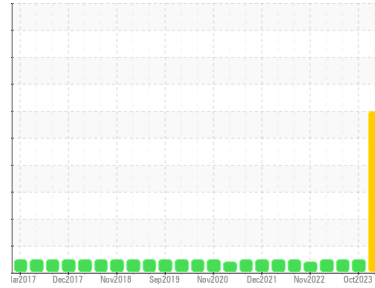
PROBLEM SUMMARY

Sample Rating Trend

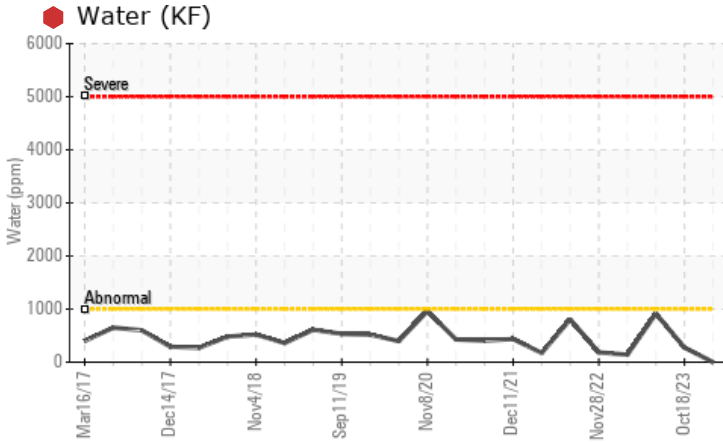
WATER



Machine Id
BUSCH CONVERSION P-05 CV-12 VACUUM (S/N U094605860)
Component
Pump
Fluid
USPI VAC 100 (--- GAL)



COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you follow the water drain-off procedure for this component. We advise an early resample to confirm this situation. Insufficient oil was received to conduct any routine laboratory tests.

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	NORMAL	NORMAL
Water	%	ASTM D6304	>.1	🔴 99	0.027	0.091
Silt	scalar	*Visual	NONE	🟡 HEAVY	NONE	NONE
Debris	scalar	*Visual	NONE	🟡 HEAVY	LIGHT	NONE
Free Water	scalar	*Visual		🔴 99%	NEG	NEG

Customer Id: SMITAR
Sample No.: USPM30670
Lab Number: 06064663
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
Water Drain-off	---	---	?	We advise that you follow the water drain-off procedure for this component.
Resample	---	---	?	We advise an early resample to confirm this situation.

HISTORICAL DIAGNOSIS

18 Oct 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



06 Jul 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



26 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.

view report





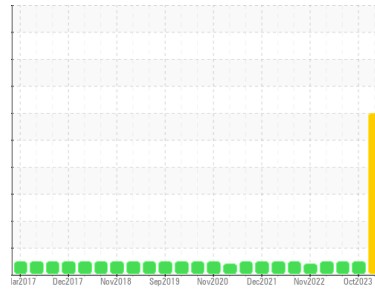
OIL ANALYSIS REPORT

Sample Rating Trend

WATER



Machine Id
BUSCH CONVERSION P-05 CV-12 VACUUM (S/N U094605860)
 Component
Pump
 Fluid
USPI VAC 100 (--- GAL)



DIAGNOSIS

Recommendation

We advise that you follow the water drain-off procedure for this component. We advise an early resample to confirm this situation. Insufficient oil was received to conduct any routine laboratory tests.

Wear

{not applicable}

Contamination

High concentration of visible dirt/debris present in the oil. There is a high amount of visible silt present in the sample. Sample consists almost entirely of free water.

Fluid Condition

{not applicable}

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		USPM30670	USPM31075	USPM27408
Sample Date	Client Info		17 Jan 2024	18 Oct 2023	06 Jul 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			SEVERE	NORMAL	NORMAL

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >90	---	0	<1
Chromium	ppm	ASTM D5185m >5	---	0	<1
Nickel	ppm	ASTM D5185m >5	---	0	<1
Titanium	ppm	ASTM D5185m >3	---	0	0
Silver	ppm	ASTM D5185m >3	---	0	0
Aluminum	ppm	ASTM D5185m >7	---	0	0
Lead	ppm	ASTM D5185m >12	---	0	0
Copper	ppm	ASTM D5185m >30	---	0	0
Tin	ppm	ASTM D5185m >9	---	<1	0
Vanadium	ppm	ASTM D5185m	---	0	0
Cadmium	ppm	ASTM D5185m	---	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0	---	0	0
Barium	ppm	ASTM D5185m 0	---	0	0
Molybdenum	ppm	ASTM D5185m 0	---	0	0
Manganese	ppm	ASTM D5185m	---	0	0
Magnesium	ppm	ASTM D5185m 0	---	0	0
Calcium	ppm	ASTM D5185m 0	---	0	0
Phosphorus	ppm	ASTM D5185m 1800	---	975	869
Zinc	ppm	ASTM D5185m 0	---	0	0
Sulfur	ppm	ASTM D5185m 0	---	9	0

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >60	---	11	2
Sodium	ppm	ASTM D5185m	---	0	0
Potassium	ppm	ASTM D5185m >20	---	0	0
Water	%	ASTM D6304 >.1	99	0.027	0.091
ppm Water	ppm	ASTM D6304 >1000	---	275.1	913.1

FLUID CLEANLINESS

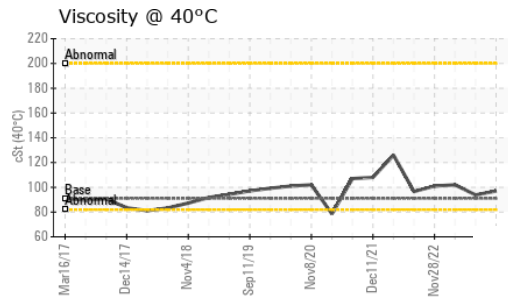
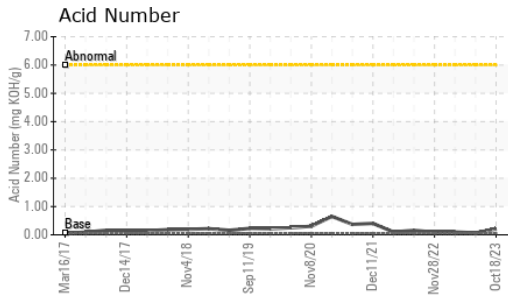
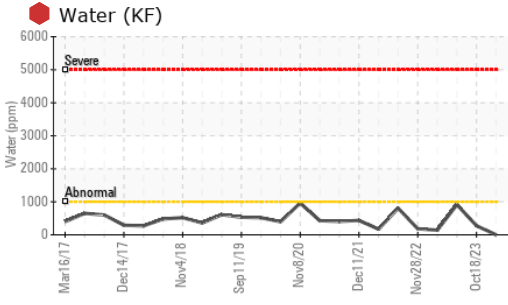
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	---	1213	4523
Particles >6µm	ASTM D7647	>1300	---	371	971
Particles >14µm	ASTM D7647	>160	---	31	35
Particles >21µm	ASTM D7647	>40	---	8	6
Particles >38µm	ASTM D7647	>10	---	1	2
Particles >71µm	ASTM D7647	>3	---	0	0
Oil Cleanliness	ISO 4406 (c)	>19/17/14	---	17/16/12	19/17/12

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.05	---	0.21	0.069



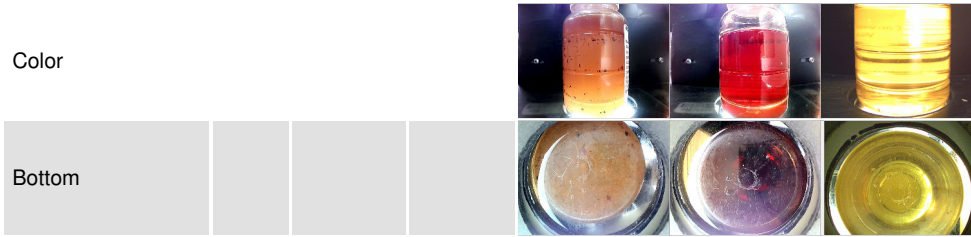
OIL ANALYSIS REPORT



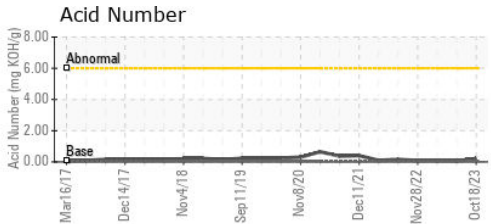
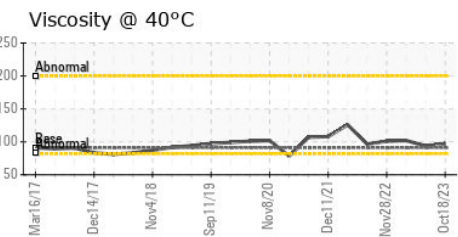
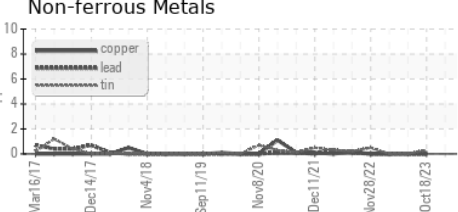
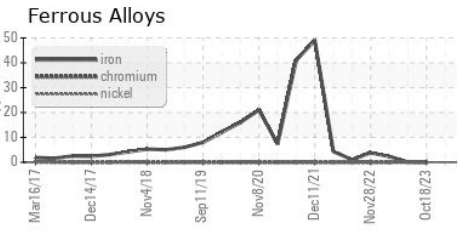
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	▲ HEAVY	NONE	NONE
Debris	scalar	*Visual	▲ HEAVY	LIGHT	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>.1	0.2%	NEG
Free Water	scalar	*Visual	● 99%	NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 91	---	97.0	93.8

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : USPM30670 **Recieved** : 18 Jan 2024
Lab Number : 06064663 **Diagnosed** : 25 Jan 2024
Unique Number : 10836045 **Diagnostician** : Doug Bogart
Test Package : IND 2

SMITHFIELD FOOD - TARHEEL
 15855 HWY. 87 WEST
 TARHEEL, NC
 US 28392
 Contact: SERVICE MANAGER

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)

T:
F: