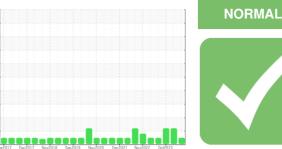


# **OIL ANALYSIS REPORT**

## Sample Rating Trend



Machine Id

# BUSCH CONVERSION P-09 CV-11 VACUUM (S/N U085007882)

Component **Pump** 

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

#### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

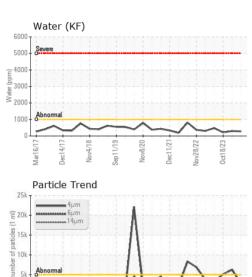
## **Fluid Condition**

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

w2017 Dec2017 Nov2018 Sep2019 Nov2020 Dec2021 Nov2022 Occ2023							
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		USPM36785	USPM30659	USPM31076	
Sample Date		Client Info		22 Apr 2024	17 Jan 2024	18 Oct 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				NORMAL	ATTENTION	ATTENTION	
WEAR METALS		method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>90	<1	0	2	
Chromium	ppm	ASTM D5185m	>5	<1	0	0	
Nickel	ppm	ASTM D5185m	>5	<1	0	0	
Titanium	ppm	ASTM D5185m	>3	<1	0	0	
Silver	ppm	ASTM D5185m	>3	0	0	0	
Aluminum	ppm	ASTM D5185m	>7	2	0	<1	
Lead	ppm	ASTM D5185m	>12	0	<1	0	
Copper	ppm	ASTM D5185m	>30	<1	0	0	
Tin	ppm	ASTM D5185m	>9	<1	<1	<1	
Vanadium	ppm	ASTM D5185m		<1	0	0	
Cadmium	ppm	ASTM D5185m		<1	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	<1	0	0	
Manganese	ppm	ASTM D5185m		0	0	0	
Magnesium	ppm	ASTM D5185m	0	<1	0	0	
Calcium	ppm	ASTM D5185m	0	0	0	0	
Phosphorus	ppm	ASTM D5185m	1800	936	1033	1006	
Zinc	ppm	ASTM D5185m	0	0	0	0	
Sulfur	ppm	ASTM D5185m	0	0	0	20	
CONTAMINANTS		method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>60	12	6	5	
Sodium	ppm	ASTM D5185m		0	0	<1	
Potassium	ppm	ASTM D5185m	>20	<1	1	0	
Water	%	ASTM D6304	>.1	0.028	0.030	0.021	
ppm Water	ppm	ASTM D6304	>1000	280	301	213.5	
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2	
Particles >4µm		ASTM D7647	>5000	2837	6252	5135	
Particles >6µm		ASTM D7647	>1300	777	<b>1519</b>	1492	
Particles >14μm		ASTM D7647	>160	80	142	110	
Particles >21µm		ASTM D7647	>40	15	35	25	
Particles >38µm		ASTM D7647	>10	2	1	2	
Particles >71µm		ASTM D7647	>3	1	0	0	
Oil Cleanliness		ISO 4406 (c)	>19/17/14	19/17/13	20/18/14	20/18/14	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045	0.05	0.10	0.04	0.11	



## **OIL ANALYSIS REPORT**

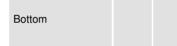


VISUAL		method				history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IFS	method	limit/base		history1	history2

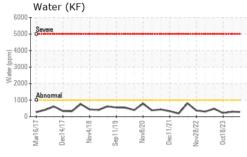
FLUID PHOPENTIES		method			riistory i	riistoryz	
Visc @ 40°C	cSt	ASTM D445	91	98.3	98.3	97.7	

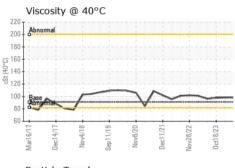
SAMPLE IMAGES

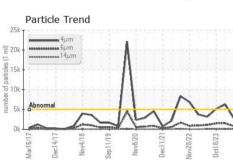
Color

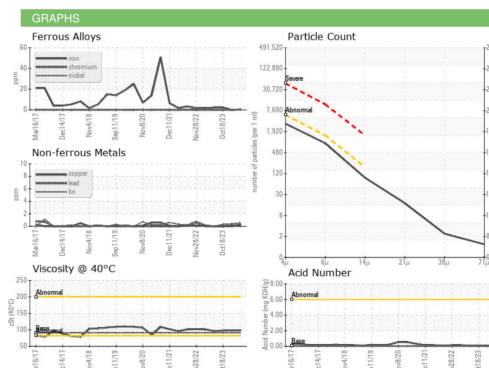
















Certificate 12367

Laboratory Sample No.

: USPM36785 Lab Number : 06157718 Unique Number : 10993141 Test Package : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 23 Apr 2024 **Tested** : 24 Apr 2024

Diagnosed

: 25 Apr 2024 - Jonathan Hester

**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: