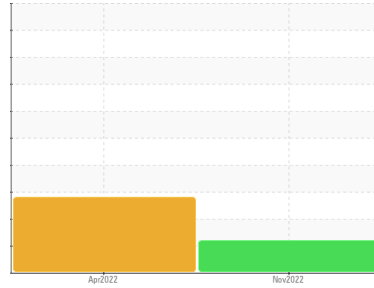




# PROBLEM SUMMARY

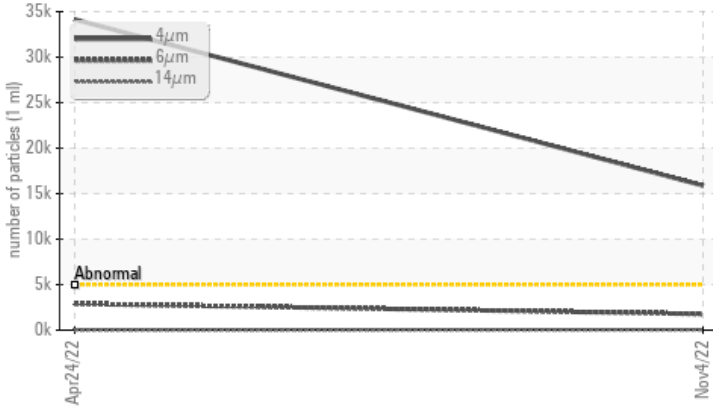
Area  
**VACUUM PUMP**  
 Machine Id  
**B70081 - VACUUM PUMP ROTARY VANE**  
 Component  
**Vacuum Pump**  
 Fluid  
**BUSCH R530S (--- GAL)**

Sample Rating Trend



## COMPONENT CONDITION SUMMARY

▲ Particle Trend



## RECOMMENDATION

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

## PROBLEMATIC TEST RESULTS

Sample Status	ASTM D7647	ISO 4406 (c)	ABNORMAL	ABNORMAL	---
Particles >4µm	>5000	▲ 15888	▲ 34148	---	---
Particles >6µm	>1300	▲ 1773	▲ 2894	---	---
Oil Cleanliness	>19/17/14	▲ 21/18/12	▲ 22/19/11	---	---

Customer Id: PAPOMA  
 Sample No.: WC0716984  
 Lab Number: 05691306  
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:  
 Don Baldrige +1  
[don.b505@comcast.net](mailto:don.b505@comcast.net)

To change component or sample information:  
 Customer Service +1 1-800-237-1369  
[customerservice@wearcheck.com](mailto:customerservice@wearcheck.com)

## RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Filter	---	---	?	We recommend you service the filters on this component if applicable.

## HISTORICAL DIAGNOSIS

24 Apr 2022 Diag: Jonathan Hester

### WATER



We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. There is a trace of moisture present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

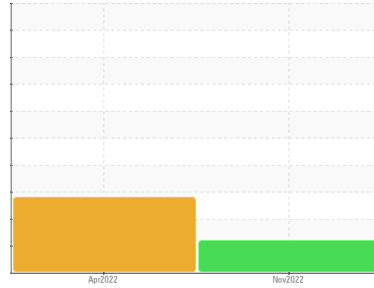
view report





# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area  
**VACUUM PUMP**  
 Machine Id  
**B70081 - VACUUM PUMP ROTARY VANE**  
 Component  
**Vacuum Pump**  
 Fluid  
**BUSCH R530S (--- GAL)**

## DIAGNOSIS

### ▲ Recommendation

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### ▲ Contamination

There is a high amount of silt (particulates < 14 microns in size) 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 INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0716984</b>	WC0657628	---
Sample Date	Client Info		<b>04 Nov 2022</b>	24 Apr 2022	---
Machine Age	hrs	Client Info	<b>0</b>	0	---
Oil Age	hrs	Client Info	<b>0</b>	0	---
Oil Changed	Client Info		<b>Not Changed</b>	Not Changed	---
Sample Status			<b>ABNORMAL</b>	ABNORMAL	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >20	<b>2</b>	1	---
Chromium	ppm	ASTM D5185m >20	<b>0</b>	0	---
Nickel	ppm	ASTM D5185m >20	<b>0</b>	0	---
Titanium	ppm	ASTM D5185m	<b>0</b>	0	---
Silver	ppm	ASTM D5185m	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m >20	<b>0</b>	<1	---
Lead	ppm	ASTM D5185m >20	<b>0</b>	<1	---
Copper	ppm	ASTM D5185m >20	<b>0</b>	0	---
Tin	ppm	ASTM D5185m >20	<b>0</b>	0	---
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	---
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>0</b>	<1	---
Barium	ppm	ASTM D5185m	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m	<b>0</b>	<1	---
Manganese	ppm	ASTM D5185m	<b>0</b>	0	---
Magnesium	ppm	ASTM D5185m	<b>4</b>	7	---
Calcium	ppm	ASTM D5185m	<b>7</b>	7	---
Phosphorus	ppm	ASTM D5185m	<b>8</b>	14	---
Zinc	ppm	ASTM D5185m	<b>3</b>	2	---
Sulfur	ppm	ASTM D5185m	<b>81</b>	82	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	<b>4</b>	7	---
Sodium	ppm	ASTM D5185m	<b>2</b>	3	---
Potassium	ppm	ASTM D5185m >20	<b>1</b>	1	---

## FLUID CLEANLINESS

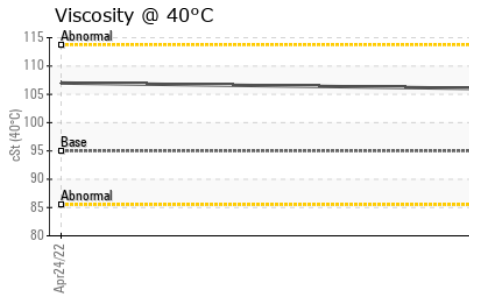
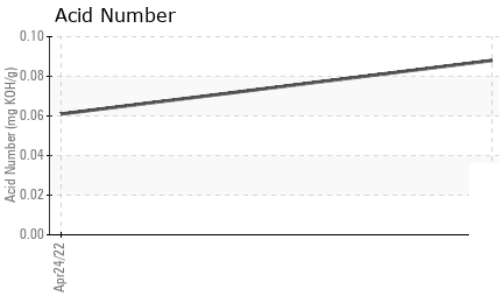
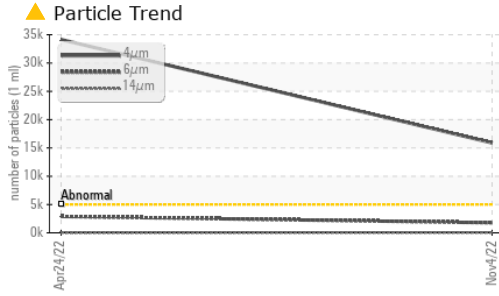
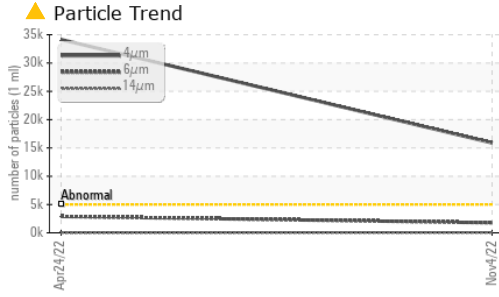
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	▲ <b>15888</b>	▲ 34148	---
Particles >6µm	ASTM D7647	>1300	▲ <b>1773</b>	▲ 2894	---
Particles >14µm	ASTM D7647	>160	<b>39</b>	14	---
Particles >21µm	ASTM D7647	>40	<b>8</b>	3	---
Particles >38µm	ASTM D7647	>10	<b>1</b>	1	---
Particles >71µm	ASTM D7647	>3	<b>1</b>	1	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ <b>21/18/12</b>	▲ 22/19/11	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>0.088</b>	0.061	---



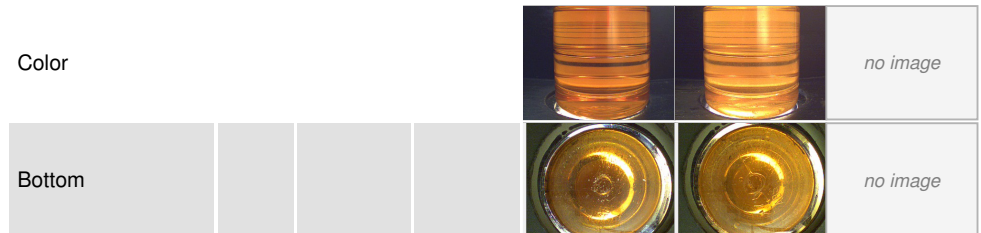
# OIL ANALYSIS REPORT



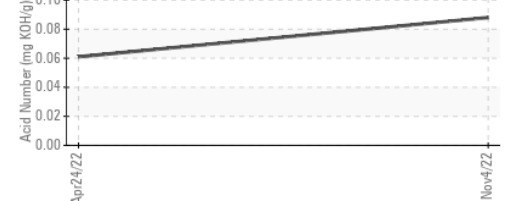
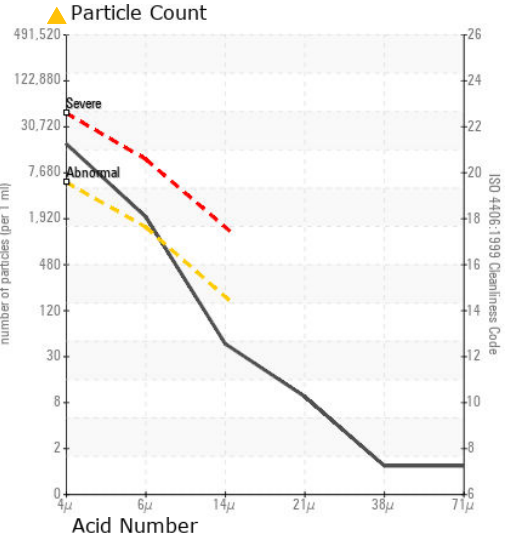
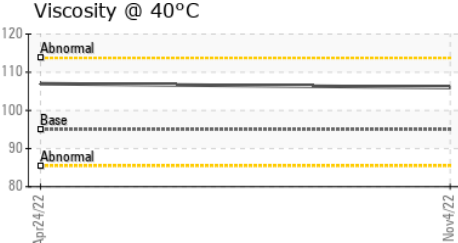
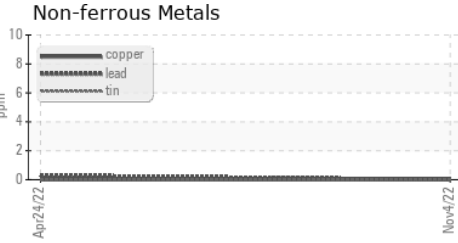
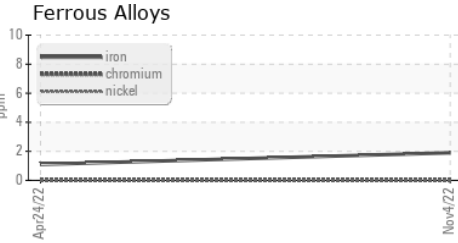
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	NEG	▲ 0.2%	---
Free Water	scalar	*Visual	NEG	NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 95.0	106	107	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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### GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0716984 **Received** : 11 Nov 2022  
**Lab Number** : 05691306 **Diagnosed** : 14 Nov 2022  
**Unique Number** : 10215879 **Diagnostician** : Don Baldrige  
**Test Package** : IND 2 ( Additional Tests: PrtCount )

**PAPILLION FOODS**  
 10808 S 132ND ST  
 OMAHA, NE  
 US 68138  
 Contact: NEIL ARIANO  
 njariano@hormel.com  
 T:  
 F:

Certificate L2367  
 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)