

**WATER**



Machine Id  
**BUSCH VAC PUMP**  
Component  
**Gearbox**  
Fluid  
**VS100 (--- LTR)**

**DIAGNOSIS**

**Recommendation**

Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. We advise that you check for the source of water entry. Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend either performing an oil change or oil filtration. We cannot recommend specific action as we have limited information with regards to reservoir capacity and/or lubricant type. We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

**Wear**

All component wear rates are normal.

**Contamination**

There is a moderate concentration of water present in the oil. Free water present.

**Fluid Condition**

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

SAMPLE INFORMATION	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>PC0087803</b>	---	---
Sample Date	Client Info		<b>22 Jun 2024</b>	---	---
Machine Age	hrs	Client Info	<b>0</b>	---	---
Oil Age	hrs	Client Info	<b>0</b>	---	---
Oil Changed	Client Info		<b>N/A</b>	---	---
Sample Status			<b>ABNORMAL</b>	---	---

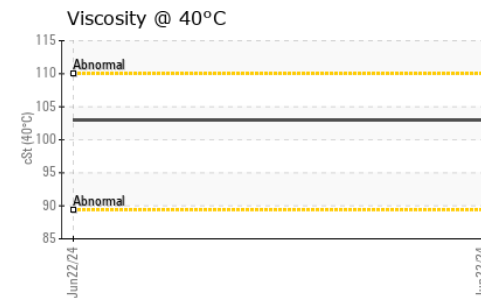
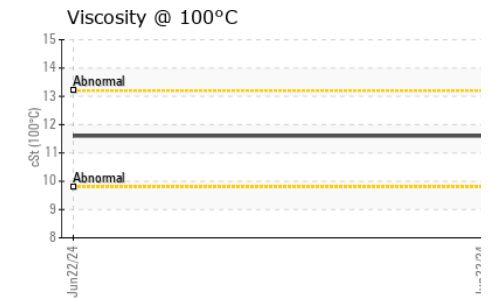
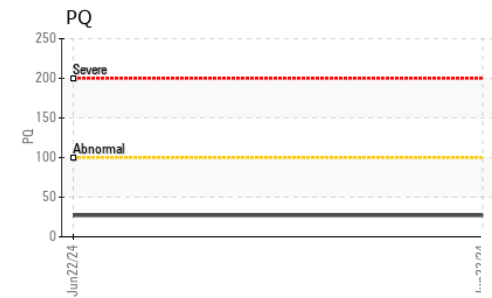
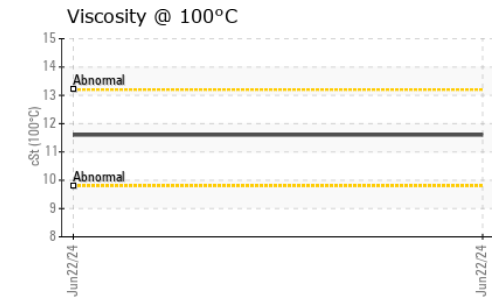
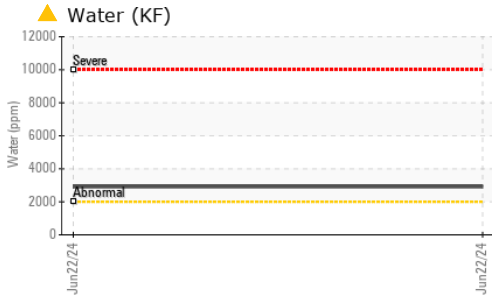
WEAR METALS	method	limit/base	current	history1	history2
PQ	ASTM D8184*		<b>27</b>	---	---
Iron	ppm	ASTM D5185(m) >200	<b>3</b>	---	---
Chromium	ppm	ASTM D5185(m) >15	<b>0</b>	---	---
Nickel	ppm	ASTM D5185(m) >15	<b>&lt;1</b>	---	---
Titanium	ppm	ASTM D5185(m)	<b>0</b>	---	---
Silver	ppm	ASTM D5185(m)	<b>0</b>	---	---
Aluminum	ppm	ASTM D5185(m) >25	<b>&lt;1</b>	---	---
Lead	ppm	ASTM D5185(m) >100	<b>0</b>	---	---
Copper	ppm	ASTM D5185(m) >200	<b>&lt;1</b>	---	---
Tin	ppm	ASTM D5185(m) >25	<b>0</b>	---	---
Antimony	ppm	ASTM D5185(m) >5	<b>0</b>	---	---
Vanadium	ppm	ASTM D5185(m)	<b>0</b>	---	---
Beryllium	ppm	ASTM D5185(m)	<b>0</b>	---	---
Cadmium	ppm	ASTM D5185(m)	<b>0</b>	---	---

ADDITIVES	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	<b>1</b>	---	---
Barium	ppm	ASTM D5185(m)	<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185(m)	<b>0</b>	---	---
Manganese	ppm	ASTM D5185(m)	<b>0</b>	---	---
Magnesium	ppm	ASTM D5185(m)	<b>0</b>	---	---
Calcium	ppm	ASTM D5185(m)	<b>0</b>	---	---
Phosphorus	ppm	ASTM D5185(m)	<b>10</b>	---	---
Zinc	ppm	ASTM D5185(m)	<b>&lt;1</b>	---	---
Sulfur	ppm	ASTM D5185(m)	<b>713</b>	---	---
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	---	---

CONTAMINANTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >50	<b>&lt;1</b>	---	---
Sodium	ppm	ASTM D5185(m)	<b>2</b>	---	---
Potassium	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	---	---
Water	%	ASTM D6304* >0.2	<b>▲ 0.291</b>	---	---
ppm Water	ppm	ASTM D6304* >2000	<b>▲ 2914</b>	---	---

FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	<b>0.04</b>	---	---

# OIL ANALYSIS REPORT

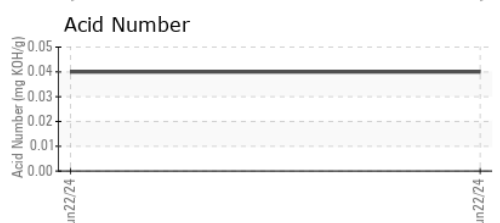
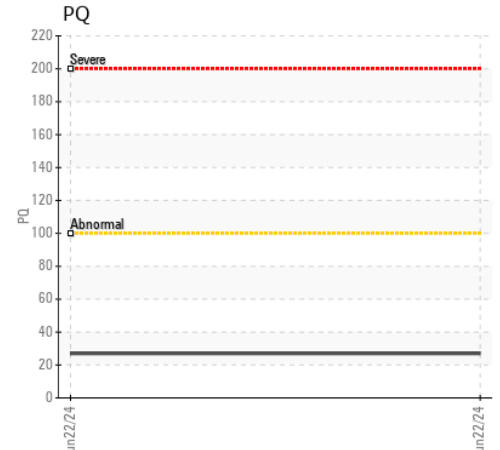
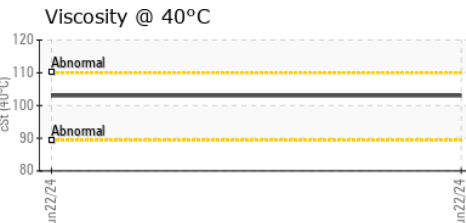
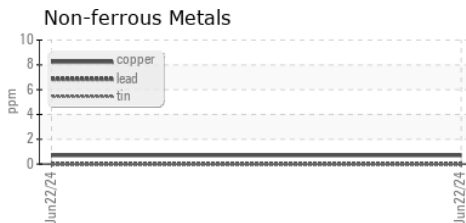
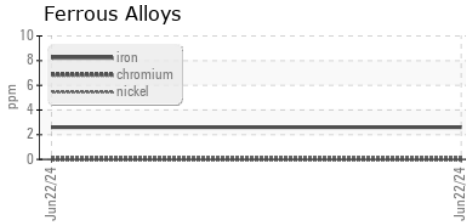


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	---
Precipitate	scalar	Visual*	NONE	NONE	---
Silt	scalar	Visual*	NONE	NONE	---
Debris	scalar	Visual*	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	LIGHT	---
Appearance	scalar	Visual*	NORML	▲ WGOIL	---
Odor	scalar	Visual*	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.2	▲ .2%	---
Free Water	scalar	Visual*		▲ 5%	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	103	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	11.6	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	99	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				no image	no image
Bottom				no image	no image

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0087803  
**Lab Number** : 02647437  
**Unique Number** : 5812989  
**Test Package** : IND 2 ( Additional Tests: KF, KV100, TAN Man, VI )  
**Received** : 11 Jul 2024  
**Tested** : 16 Jul 2024  
**Diagnosed** : 16 Jul 2024 - Kevin Marson

To discuss this sample report, contact Customer Service at 1-800-268-2131.  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.  
 Validity of results and interpretation are based on the sample and information as supplied.

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