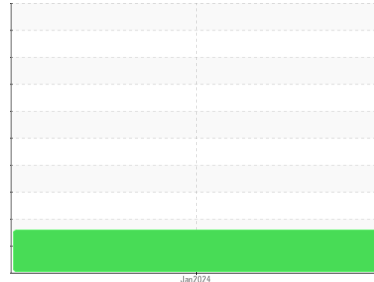




# OIL ANALYSIS REPORT

Sample Rating Trend

ISO



Area  
**BUILDING 63 - CENTRAL DRAIN & FILL**  
 Machine Id  
**BARREL VAN 14 (S/N BULBUL)**

Component  
**Bulk Fluid Tank**  
 Fluid  
**AW HYDRAULIC OIL ISO 32 (--- GAL)**

## DIAGNOSIS

### Recommendation

We recommend you service the filters on this component. We recommend an early resample to monitor this condition. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) AW HYDRAULIC OIL ISO 32. Please confirm.

### Wear

All component wear rates are normal.

### Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The water content is negligible.

### Fluid Condition

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>WC</b>	---	---
Sample Date	Client Info	<b>22 Jan 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
Iron ppm ASTM D5185(m)		<b>2</b>	---	---
Chromium ppm ASTM D5185(m)		<b>0</b>	---	---
Nickel ppm ASTM D5185(m)		<b>0</b>	---	---
Titanium ppm ASTM D5185(m)		<b>0</b>	---	---
Silver ppm ASTM D5185(m)		<b>0</b>	---	---
Aluminum ppm ASTM D5185(m)		<b>&lt;1</b>	---	---
Lead ppm ASTM D5185(m)		<b>&lt;1</b>	---	---
Copper ppm ASTM D5185(m)		<b>2</b>	---	---
Tin ppm ASTM D5185(m)		<b>0</b>	---	---
Antimony ppm ASTM D5185(m)		<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)	5	<b>5</b>	---	---
Barium ppm ASTM D5185(m)	5	<b>0</b>	---	---
Molybdenum ppm ASTM D5185(m)	5	<b>&lt;1</b>	---	---
Manganese ppm ASTM D5185(m)		<b>0</b>	---	---
Magnesium ppm ASTM D5185(m)	25	<b>&lt;1</b>	---	---
Calcium ppm ASTM D5185(m)	200	<b>71</b>	---	---
Phosphorus ppm ASTM D5185(m)	300	<b>404</b>	---	---
Zinc ppm ASTM D5185(m)	370	<b>454</b>	---	---
Sulfur ppm ASTM D5185(m)	2500	<b>1419</b>	---	---
Lithium ppm ASTM D5185(m)		<b>&lt;1</b>	---	---

## CONTAMINANTS

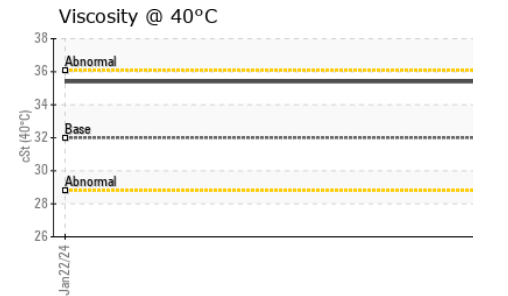
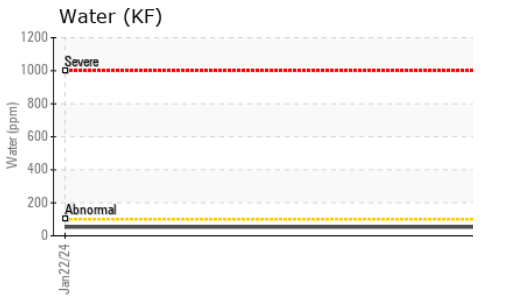
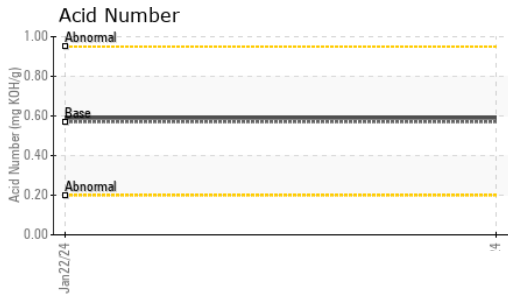
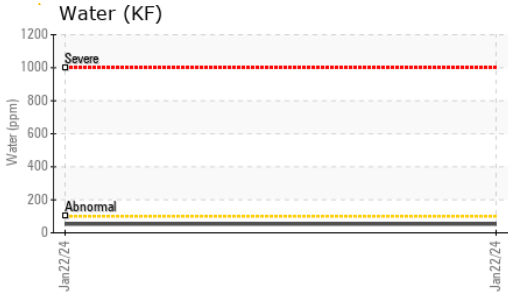
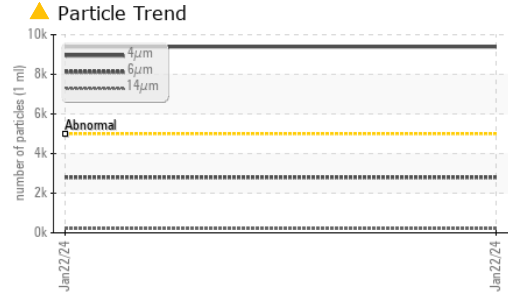
method	limit/base	current	history1	history2
Silicon ppm ASTM D5185(m)		<b>1</b>	---	---
Sodium ppm ASTM D5185(m)		<b>0</b>	---	---
Potassium ppm ASTM D5185(m)	>20	<b>&lt;1</b>	---	---
Water % ASTM D6304*		<b>0.005</b>	---	---
ppm Water ppm ASTM D6304*		<b>53</b>	---	---

## FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm ASTM D7647	>5000	<b>▲ 9391</b>	---	---
Particles >6µm ASTM D7647	>1300	<b>▲ 2800</b>	---	---
Particles >14µm ASTM D7647	>160	<b>▲ 207</b>	---	---
Particles >21µm ASTM D7647	>40	<b>47</b>	---	---
Particles >38µm ASTM D7647	>10	<b>5</b>	---	---
Particles >71µm ASTM D7647	>3	<b>0</b>	---	---
Oil Cleanliness ISO 4406 (c)	>19/17/14	<b>▲ 20/19/15</b>	---	---



# OIL ANALYSIS REPORT



FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.57	<b>0.59</b>	---	---

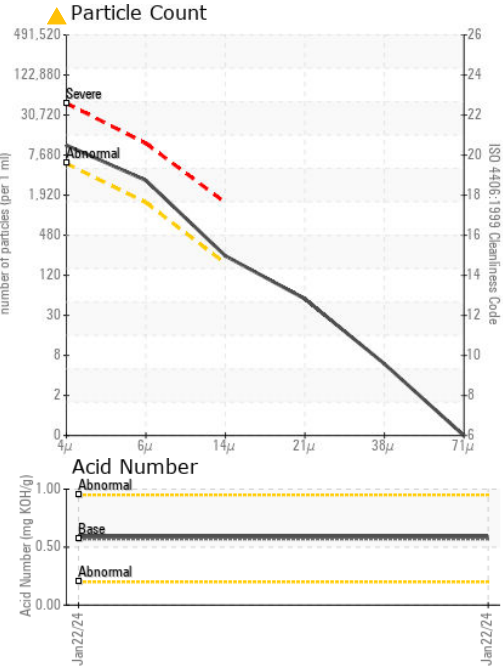
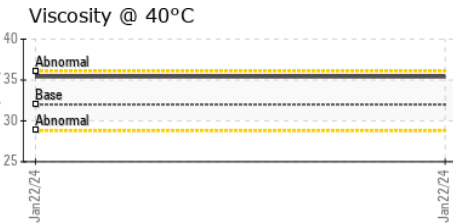
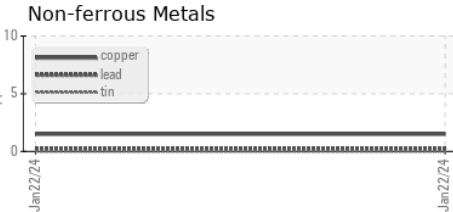
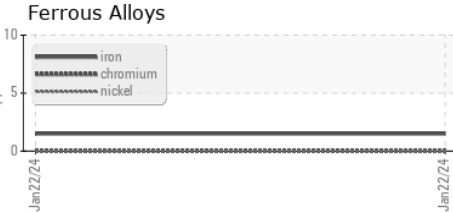
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---
Precipitate	scalar	Visual*	NONE	<b>NONE</b>	---	---
Silt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Debris	scalar	Visual*	NONE	<b>NONE</b>	---	---
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Appearance	scalar	Visual*	NORML	<b>NORML</b>	---	---
Odor	scalar	Visual*	NORML	<b>NORML</b>	---	---
Emulsified Water	scalar	Visual*		<b>.2%</b>	---	---
Free Water	scalar	Visual*		<b>NEG</b>	---	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	32	<b>35.4</b>	---	---

### 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.** : WC **Received** : 23 Jan 2024  
**Lab Number** : 02610600 **Diagnosed** : 24 Jan 2024  
**Unique Number** : 5711686 **Diagnostician** : Wes Davis  
**Test Package** : IND 2 ( Additional Tests: KF )

**HIRAM WALKER & SONS LTD.**  
 2072 RIVERSIDE DRIVE EAST, BOX 2518  
 WINDSOR, ON  
 CA N8Y 4S5  
 Contact: Matt Morand  
 matt.morand@pernod-ricard.com  
 T: (519)561-5359  
 F: (519)971-5719

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.