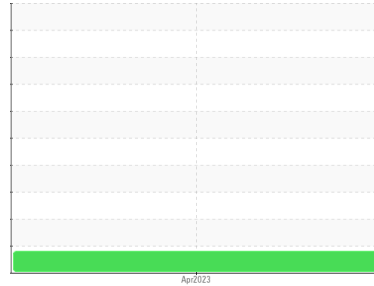


PROBLEM SUMMARY

Sample Rating Trend



VISCOSITY



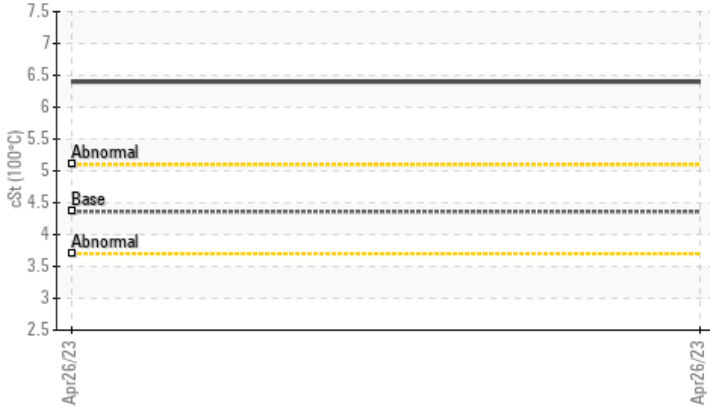
Machine Id
158062 - BLEACH CHILLER 1

Component
Refrigeration Compressor

Fluid
NU-CALGON C-3 (RO15)ISO 32 (--- GAL)

COMPONENT CONDITION SUMMARY

▲ Viscosity @ 100°C



▲ Viscosity @ 40°C



RECOMMENDATION

Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	33.0	▲ 24.7	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	4.36	▲ 6.4	---	---

Customer Id: CANDRY
Sample No.: PC0070208
Lab Number: 02554646
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
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Kevin.Marson@wearcheck.com

To change component or sample information:
Gloria Gonzalez +1 (289)291-4643 x4643
gloria.gonzalez@wearcheck.com

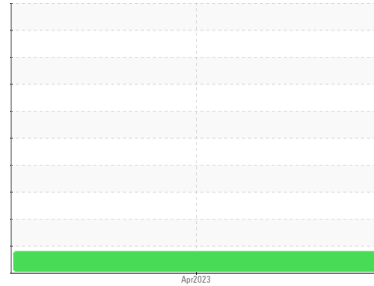
RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS



Machine Id
158062 - BLEACH CHILLER 1
Component
Refrigeration Compressor
Fluid
NU-CALGON C-3 (RO15)ISO 32 (--- GAL)



DIAGNOSIS

- ▲ **Recommendation**
Resample at the next service interval to monitor.
- Wear**
All component wear rates are normal.
- Contamination**
The water content is negligible. There is no indication of any contamination in the oil.
- ▲ **Fluid Condition**
The oil viscosity is lower than typical, possibly indicating the addition of lighter grade oil. 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	PC0070208	---	---
Sample Date	Client Info	26 Apr 2023	---	---
Machine Age	yrs Client Info	2	---	---
Oil Age	yrs Client Info	2	---	---
Oil Changed	Client Info	Changed	---	---
Sample Status		ABNORMAL	---	---

WEAR METALS method limit/base current history1 history2

PQ	ASTM D8184*		0	---	---
Iron	ppm ASTM D5185(m)	>50	<1	---	---
Chromium	ppm ASTM D5185(m)	>10	0	---	---
Nickel	ppm ASTM D5185(m)		0	---	---
Titanium	ppm ASTM D5185(m)		0	---	---
Silver	ppm ASTM D5185(m)		0	---	---
Aluminum	ppm ASTM D5185(m)	>10	0	---	---
Lead	ppm ASTM D5185(m)	>10	0	---	---
Copper	ppm ASTM D5185(m)	>50	2	---	---
Tin	ppm ASTM D5185(m)	>10	0	---	---
Antimony	ppm ASTM D5185(m)		<1	---	---
Vanadium	ppm ASTM D5185(m)		0	---	---
Beryllium	ppm ASTM D5185(m)		0	---	---
Cadmium	ppm ASTM D5185(m)		0	---	---

ADDITIVES method limit/base current history1 history2

Boron	ppm ASTM D5185(m)		<1	---	---
Barium	ppm ASTM D5185(m)		0	---	---
Molybdenum	ppm ASTM D5185(m)		0	---	---
Manganese	ppm ASTM D5185(m)		0	---	---
Magnesium	ppm ASTM D5185(m)		0	---	---
Calcium	ppm ASTM D5185(m)		0	---	---
Phosphorus	ppm ASTM D5185(m)		0	---	---
Zinc	ppm ASTM D5185(m)		2	---	---
Sulfur	ppm ASTM D5185(m)	200	158	---	---
Lithium	ppm ASTM D5185(m)		<1	---	---

CONTAMINANTS method limit/base current history1 history2

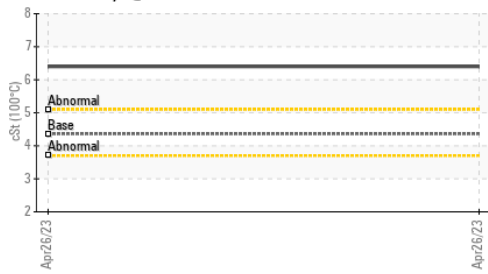
Silicon	ppm ASTM D5185(m)	>15	1	---	---
Sodium	ppm ASTM D5185(m)		0	---	---
Potassium	ppm ASTM D5185(m)	>20	0	---	---
Water	% ASTM D6304*	>.0025	0.001	---	---
ppm Water	ppm ASTM D6304*	>25	8.2	---	---

FLUID DEGRADATION method limit/base current history1 history2

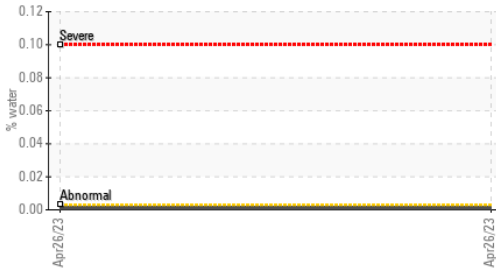
Acid Number (AN)	mg KOH/g ASTM D974*	0.014	0.02	---	---
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OIL ANALYSIS REPORT

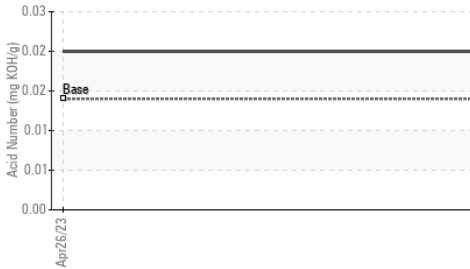
▲ Viscosity @ 100°C



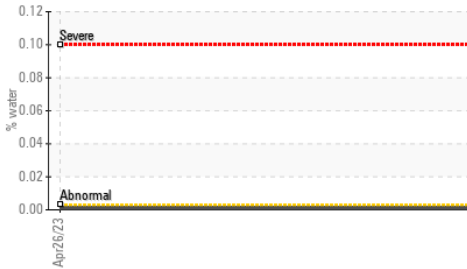
Water



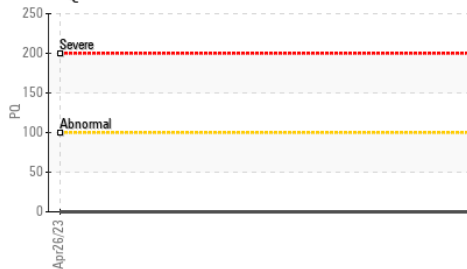
Acid Number



Water



PQ



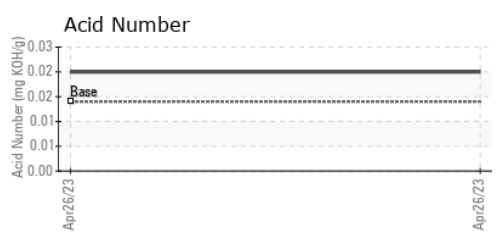
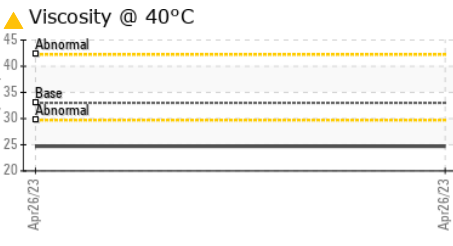
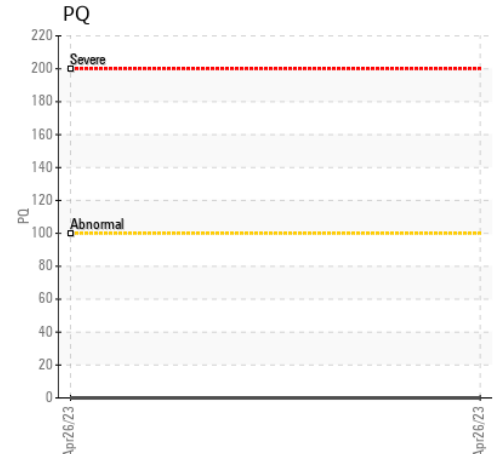
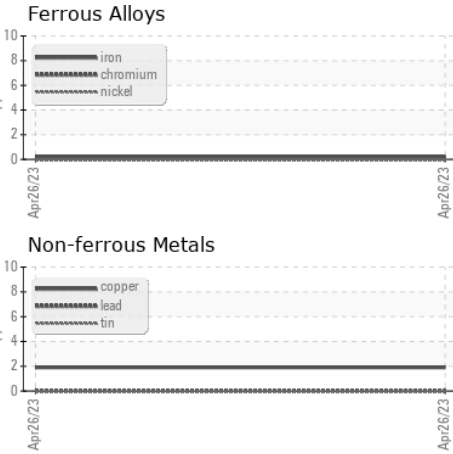
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	---
Precipitate	scalar	Visual*	NONE	NONE	---
Silt	scalar	Visual*	NONE	NONE	---
Debris	scalar	Visual*	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	VLITE	---
Appearance	scalar	Visual*	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	---
Emulsified Water	scalar	Visual*	>.0025	NEG	---
Free Water	scalar	Visual*		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	33.0 ▲ 24.7	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	4.36 ▲ 6.4	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	231	---	---

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. : PC0070208 **Received** : 02 May 2023
Lab Number : 02554646 **Diagnosed** : 03 May 2023
Unique Number : 5567661 **Diagnostician** : Kevin Marson
Test Package : IND 2 (Additional Tests: KV100, TAN Man, VI)

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 Dryden, ON
 CA P8N 2Z7
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 yvon.stlaurent@domtar.com
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 F: (807)223-9176

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.