



# PROBLEM SUMMARY

Sample Rating Trend

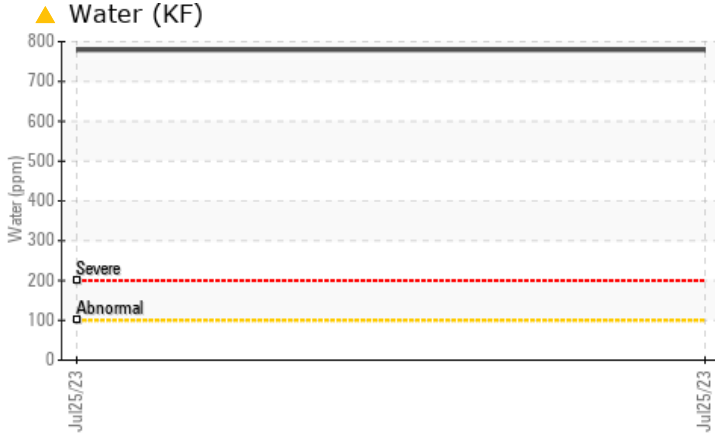


**WATER**



Machine Id  
**DUNHAM BUSH CHILLER 2 COMP 2 - AUGUSTA**  
 Component  
**Chiller**  
 Fluid  
**NOT GIVEN (--- GAL)**

## COMPONENT CONDITION SUMMARY



## RECOMMENDATION

We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.

## PROBLEMATIC TEST RESULTS

Sample Status				<b>ABNORMAL</b>	---	---
Water	%	ASTM D6304	>0.01	▲ <b>0.077</b>	---	---
ppm Water	ppm	ASTM D6304	>100	▲ <b>779.4</b>	---	---

Customer Id: XAEMID  
 Sample No.: WC0507058  
 Lab Number: 05981957  
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:  
 Doug Bogart +1 (800)237-1369 x4016  
[dougb@wearcheckusa.com](mailto:dougb@wearcheckusa.com)

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
Resample	---	---	?	We recommend an early resample to monitor this condition.
Information Required	---	---	?	Please specify the brand, type, and viscosity of the oil on your next sample.

## HISTORICAL DIAGNOSIS



# OIL ANALYSIS REPORT

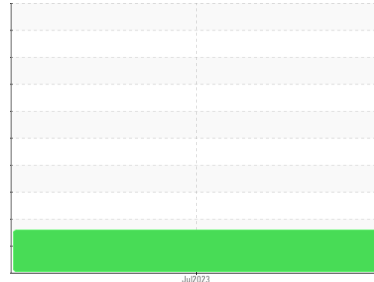
Sample Rating Trend

**WATER**



Machine Id  
**DUNHAM BUSH CHILLER 2 COMP 2 - AUGUSTA**

Component  
**Chiller**  
Fluid  
**NOT GIVEN (--- GAL)**



## DIAGNOSIS

### ▲ Recommendation

We recommend an early resample to monitor this condition. 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 light concentration of water present 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.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>WC0507058</b>	---	---
Sample Date	Client Info	<b>25 Jul 2023</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 D5185m	>8	<b>0</b>	---	---
Chromium ppm ASTM D5185m	>2	<b>0</b>	---	---
Nickel ppm ASTM D5185m		<b>0</b>	---	---
Titanium ppm ASTM D5185m		<b>0</b>	---	---
Silver ppm ASTM D5185m	>2	<b>0</b>	---	---
Aluminum ppm ASTM D5185m	>3	<b>0</b>	---	---
Lead ppm ASTM D5185m	>2	<b>0</b>	---	---
Copper ppm ASTM D5185m	>8	<b>0</b>	---	---
Tin ppm ASTM D5185m	>4	<b>0</b>	---	---
Vanadium ppm ASTM D5185m		<b>0</b>	---	---
Cadmium ppm ASTM D5185m		<b>0</b>	---	---

## ADDITIVES

method	limit/base	current	history1	history2
Boron ppm ASTM D5185m		<b>0</b>	---	---
Barium ppm ASTM D5185m		<b>6</b>	---	---
Molybdenum ppm ASTM D5185m		<b>0</b>	---	---
Manganese ppm ASTM D5185m		<b>0</b>	---	---
Magnesium ppm ASTM D5185m		<b>0</b>	---	---
Calcium ppm ASTM D5185m		<b>&lt;1</b>	---	---
Phosphorus ppm ASTM D5185m		<b>1</b>	---	---
Zinc ppm ASTM D5185m		<b>7</b>	---	---
Sulfur ppm ASTM D5185m		<b>75</b>	---	---

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm ASTM D5185m	>15	<b>1</b>	---	---
Sodium ppm ASTM D5185m		<b>0</b>	---	---
Potassium ppm ASTM D5185m	>20	<b>2</b>	---	---
Water % ASTM D6304	>0.01	<b>▲ 0.077</b>	---	---
ppm Water ppm ASTM D6304	>100	<b>▲ 779.4</b>	---	---

## FLUID CLEANLINESS

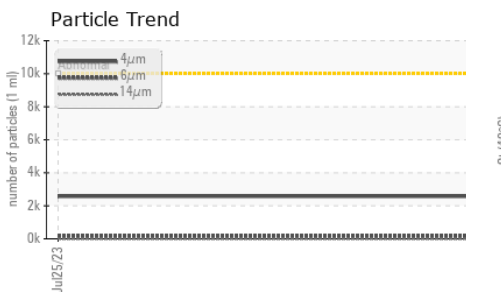
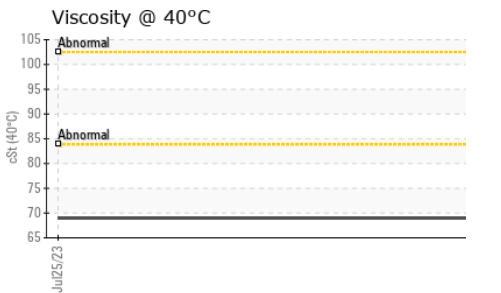
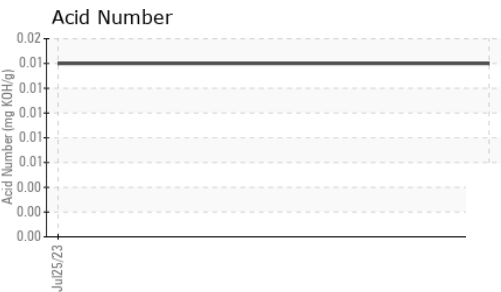
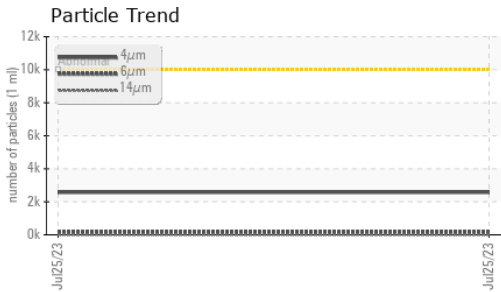
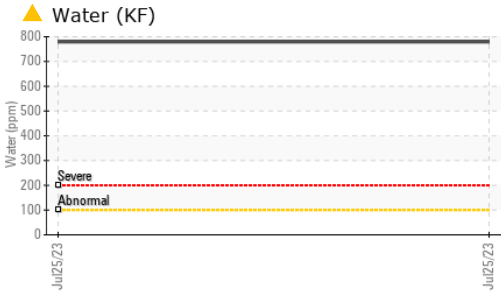
method	limit/base	current	history1	history2
Particles >4µm ASTM D7647	>10000	<b>2574</b>	---	---
Particles >6µm ASTM D7647	>2500	<b>169</b>	---	---
Particles >14µm ASTM D7647	>320	<b>7</b>	---	---
Particles >21µm ASTM D7647	>80	<b>1</b>	---	---
Particles >38µm ASTM D7647	>20	<b>0</b>	---	---
Particles >71µm ASTM D7647	>4	<b>0</b>	---	---
Oil Cleanliness ISO 4406 (c)	>20/18/15	<b>19/15/10</b>	---	---

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g ASTM D8045		<b>0.014</b>	---	---



# OIL ANALYSIS REPORT



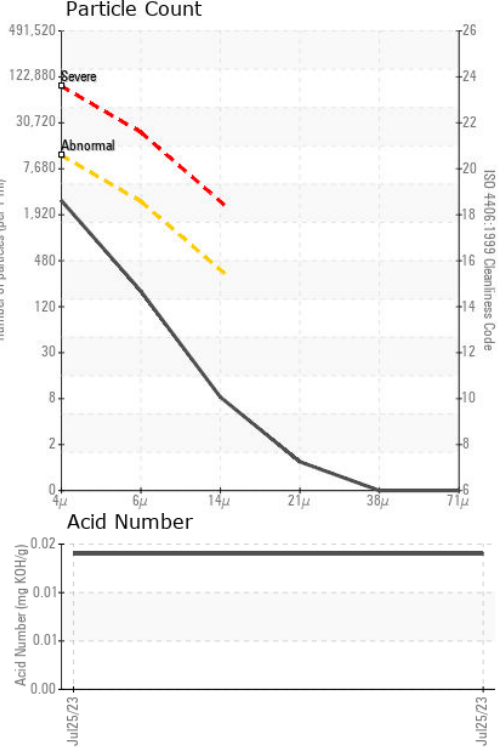
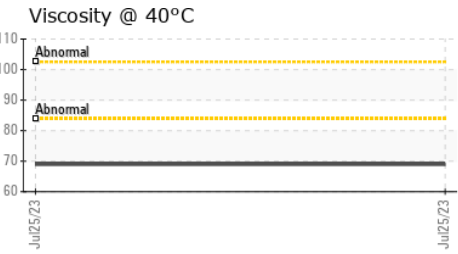
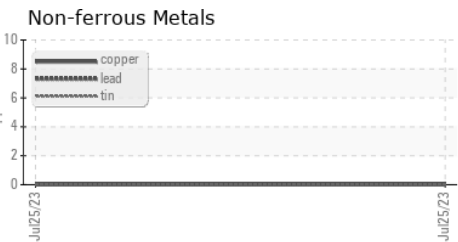
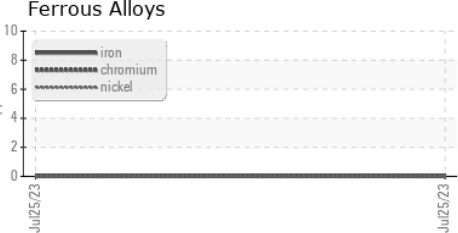
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.01	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	69.0	---	---

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

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0507058 **Received** : 17 Oct 2023  
**Lab Number** : 05981957 **Diagnosed** : 26 Oct 2023  
**Unique Number** : 10699252 **Diagnostician** : Doug Bogart  
**Test Package** : IND 2 ( Additional Tests: KF, PrtCount )

**XAERUS FLUIDS**  
 2825 SCHUETTE RD  
 MIDLAND, MI  
 US 48642  
 Contact: BRYAN DOLE  
 bdole@xaerusfluids.com

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)