

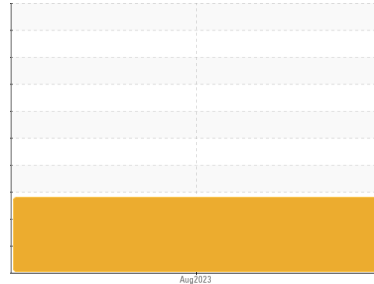


PROBLEM SUMMARY

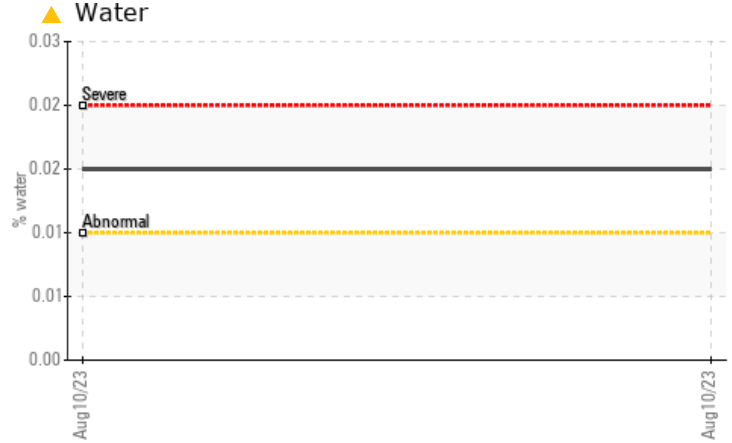
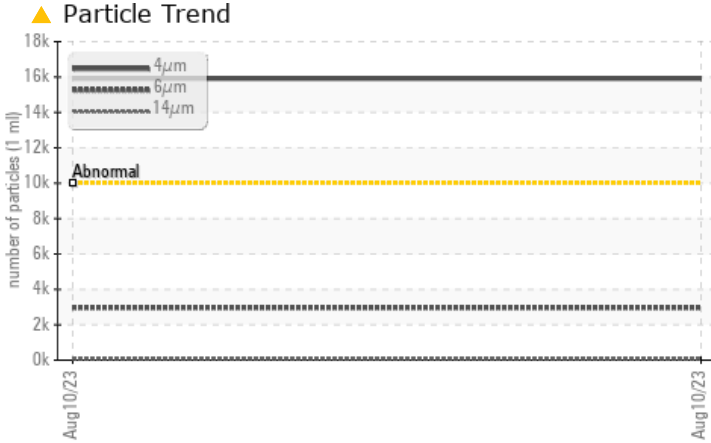
Sample Rating Trend

WATER

Area
{UNASSIGNED}
 Machine Id
MCQUAY Hills & Dale Hospital (circuit # 1) (S/N STNU060600018)
 Component
Chiller
 Fluid
NOT GIVEN (4 GAL)



COMPONENT CONDITION SUMMARY



RECOMMENDATION

No corrective action is recommended at this time.
 Resample at the next service interval to monitor.
 Please specify the brand, type, and viscosity of the oil on your next sample.

PROBLEMATIC TEST RESULTS

Sample Status				ATTENTION	---	---
Water	%	ASTM D6304	>0.01	▲ 0.015	---	---
ppm Water	ppm	ASTM D6304	>100	▲ 152.9	---	---
Particles >4µm		ASTM D7647	>10000	▲ 15908	---	---
Particles >6µm		ASTM D7647	>2500	▲ 2964	---	---
Oil Cleanliness		ISO 4406 (c)	>20/18/15	▲ 21/19/13	---	---

Customer Id: THEAUB
 Sample No.: WC0618922
 Lab Number: 05937905
 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

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

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
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



Area
{UNASSIGNED}
 Machine Id
MCQUAY Hills & Dale Hospital (circuit # 1) (S/N STNU060600018)
 Component
Chiller
 Fluid
NOT GIVEN (4 GAL)



DIAGNOSIS

▲ Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor. 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 amount of silt (particulates < 14 microns in size) present in the oil. There is a trace of moisture present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	WC0618922	---	---
Sample Date	Client Info	10 Aug 2023	---	---
Machine Age	hrs Client Info	21475	---	---
Oil Age	hrs Client Info	21475	---	---
Oil Changed	Client Info	N/A	---	---
Sample Status		ATTENTION	---	---

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm ASTM D5185m	>100	5	---	---
Chromium ppm ASTM D5185m	>2	0	---	---
Nickel ppm ASTM D5185m		0	---	---
Titanium ppm ASTM D5185m		0	---	---
Silver ppm ASTM D5185m	>2	0	---	---
Aluminum ppm ASTM D5185m	>50	3	---	---
Lead ppm ASTM D5185m	>2	0	---	---
Copper ppm ASTM D5185m	>100	4	---	---
Tin ppm ASTM D5185m	>4	2	---	---
Vanadium ppm ASTM D5185m		0	---	---
Cadmium ppm ASTM D5185m		0	---	---

ADDITIVES

method	limit/base	current	history1	history2
Boron ppm ASTM D5185m		0	---	---
Barium ppm ASTM D5185m		0	---	---
Molybdenum ppm ASTM D5185m		0	---	---
Manganese ppm ASTM D5185m		0	---	---
Magnesium ppm ASTM D5185m		0	---	---
Calcium ppm ASTM D5185m		0	---	---
Phosphorus ppm ASTM D5185m		64	---	---
Zinc ppm ASTM D5185m		0	---	---
Sulfur ppm ASTM D5185m		21	---	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm ASTM D5185m	>50	2	---	---
Sodium ppm ASTM D5185m		0	---	---
Potassium ppm ASTM D5185m	>20	0	---	---
Water % ASTM D6304	>0.01	▲ 0.015	---	---
ppm Water ppm ASTM D6304	>100	▲ 152.9	---	---

FLUID CLEANLINESS

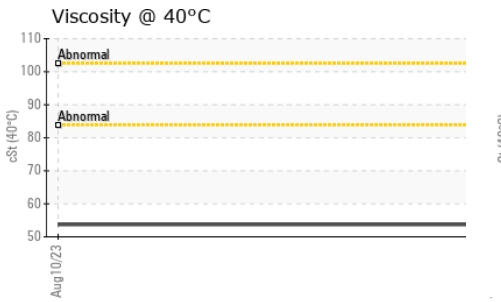
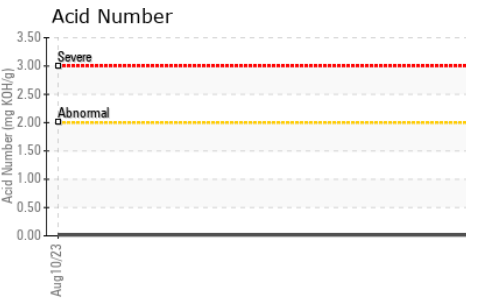
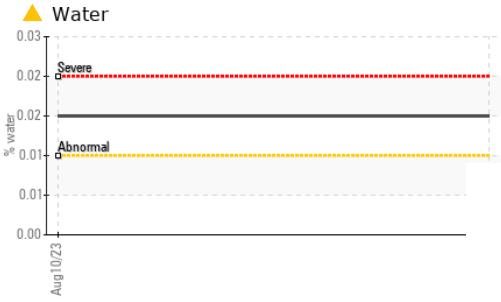
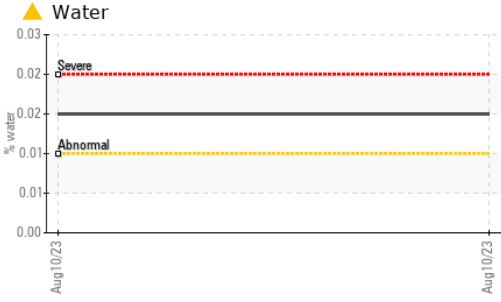
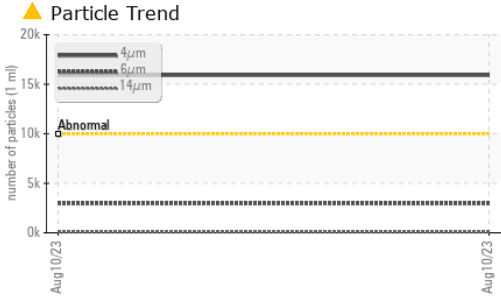
method	limit/base	current	history1	history2
Particles >4µm ASTM D7647	>10000	▲ 15908	---	---
Particles >6µm ASTM D7647	>2500	▲ 2964	---	---
Particles >14µm ASTM D7647	>320	76	---	---
Particles >21µm ASTM D7647	>80	15	---	---
Particles >38µm ASTM D7647	>20	1	---	---
Particles >71µm ASTM D7647	>4	1	---	---
Oil Cleanliness ISO 4406 (c)	>20/18/15	▲ 21/19/13	---	---

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g ASTM D8045		0.015	---	---



OIL ANALYSIS REPORT



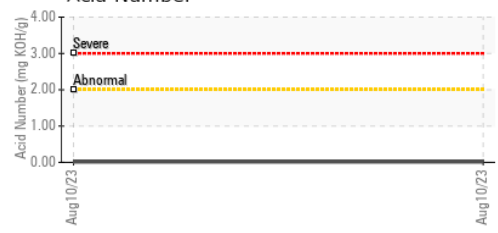
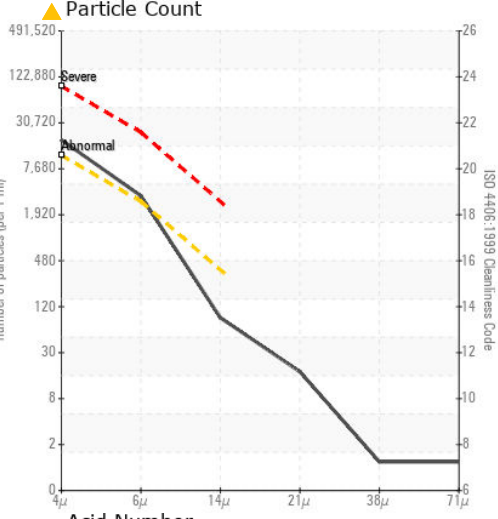
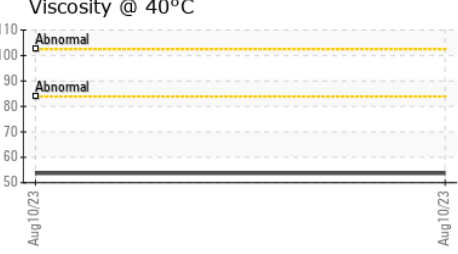
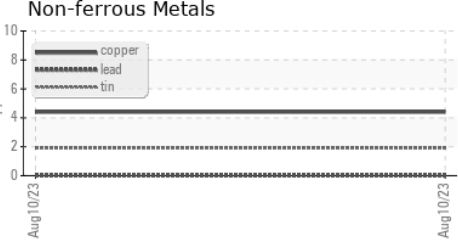
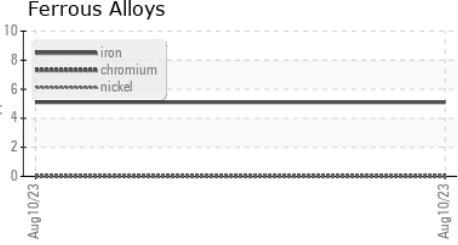
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Precipitate	scalar	*Visual	NONE	NONE	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	LIGHT	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
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	53.7	---	---

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. : WC0618922 **Received** : 29 Aug 2023
Lab Number : 05937905 **Diagnosed** : 31 Aug 2023
Unique Number : 10628517 **Diagnostician** : Don Baldrige
Test Package : IND 2 (Additional Tests: KF, PrtCount)

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 AUBURN HILLS, MI
 US 48326
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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)