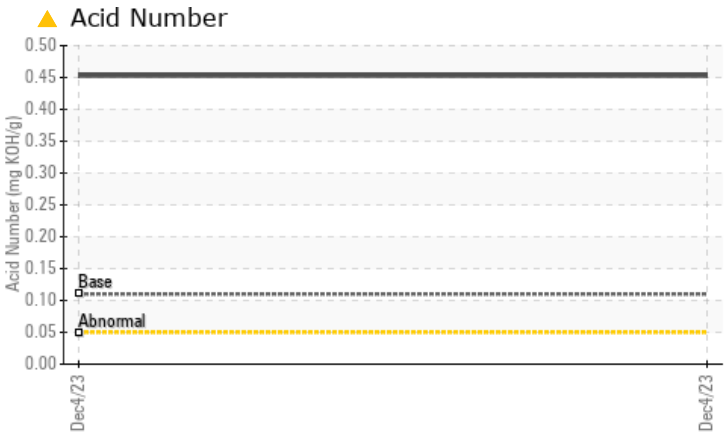
PROBLEM SUMMARY

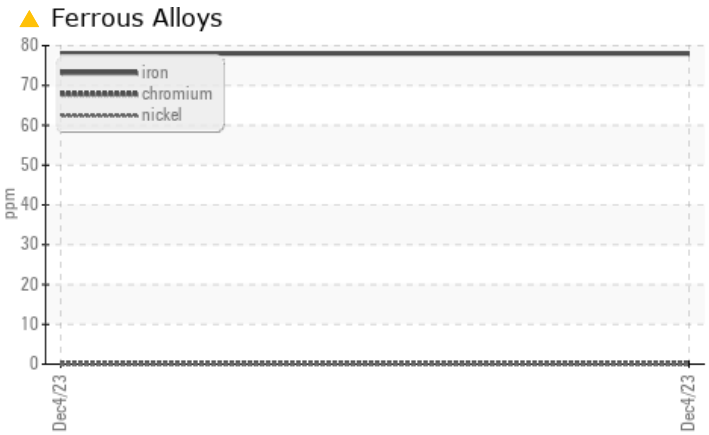
Sample Rating Trend

DEGRADATION

Area
CFCC
Machine Id
YORK MCLEOD BUILDING CHILLER 1 (S/N GDFM054332)
Component
Centrifugal Compressor
Fluid
YORK TYPE C (--- GAL)

COMPONENT CONDITION SUMMARY





RECOMMENDATION

Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status				**ABNORMAL**	---	---
Iron	ppm	ASTM D5185m	>50	▲ **78**	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045	0.11	▲ **0.453**	---	---

Customer Id: SCHWILNC
Sample No.: WC0801214
Lab Number: 06029466
Test Package: IND 2

To manage this report scan the QR code

To discuss the diagnosis or test data:
Jonathan Hester +1 919-379-4092 x4092
jhester@wearcheckusa.com

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

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Fluid	---	---	?	Oil and filter change at the time of sampling has been noted.
Change Filter	---	---	?	Oil and filter change at the time of sampling has been noted.
Resample	---	---	?	We recommend an early resample to monitor this condition.

HISTORICAL DIAGNOSIS

OIL ANALYSIS REPORT

Sample Rating Trend

DEGRADATION

Area
CFCC
Machine Id
YORK MCLEOD BUILDING CHILLER 1 (S/N GDFM054332)
Component
Centrifugal Compressor
Fluid
YORK TYPE C (--- GAL)

DIAGNOSIS

Recommendation
Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Wear
The iron level is abnormal. All other component wear rates are normal.

Contamination
There is no indication of any contamination in the oil.

Fluid Condition
The AN level is at the top-end of the recommended limit.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0801214**	---	---
Sample Date		Client Info		**04 Dec 2023**	---	---
Machine Age	hrs	Client Info		**14876**	---	---
Oil Age	hrs	Client Info		**4600**	---	---
Oil Changed		Client Info		**Changed**	---	---
Sample Status				**ABNORMAL**	---	---

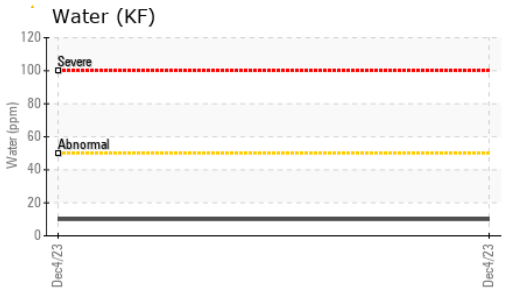
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	▲ **78**	---	---
Chromium	ppm	ASTM D5185m	>10	**<1**	---	---
Nickel	ppm	ASTM D5185m		**0**	---	---
Titanium	ppm	ASTM D5185m		**0**	---	---
Silver	ppm	ASTM D5185m		**0**	---	---
Aluminum	ppm	ASTM D5185m	>25	**<1**	---	---
Lead	ppm	ASTM D5185m	>25	**0**	---	---
Copper	ppm	ASTM D5185m	>50	**8**	---	---
Tin	ppm	ASTM D5185m	>15	**<1**	---	---
Vanadium	ppm	ASTM D5185m		**0**	---	---
Cadmium	ppm	ASTM D5185m		**0**	---	---

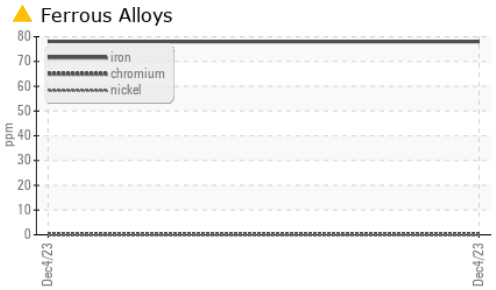
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	**0**	---	---
Barium	ppm	ASTM D5185m	0	**0**	---	---
Molybdenum	ppm	ASTM D5185m	0	**0**	---	---
Manganese	ppm	ASTM D5185m	0	**0**	---	---
Magnesium	ppm	ASTM D5185m	0	**0**	---	---
Calcium	ppm	ASTM D5185m	0	**<1**	---	---
Phosphorus	ppm	ASTM D5185m	0	**0**	---	---
Zinc	ppm	ASTM D5185m	0	**0**	---	---
Sulfur	ppm	ASTM D5185m	200	**196**	---	---

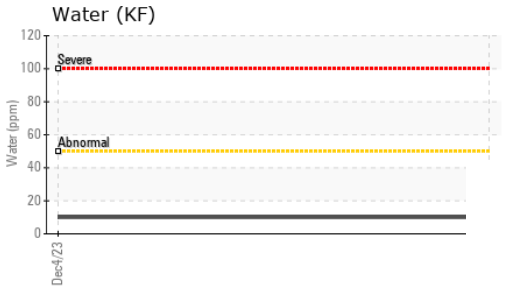
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	**2**	---	---
Sodium	ppm	ASTM D5185m		**0**	---	---
Potassium	ppm	ASTM D5185m	>20	**<1**	---	---
Water	%	ASTM D6304	>0.005	**0.001**	---	---
ppm Water	ppm	ASTM D6304	>50	**10**	---	---

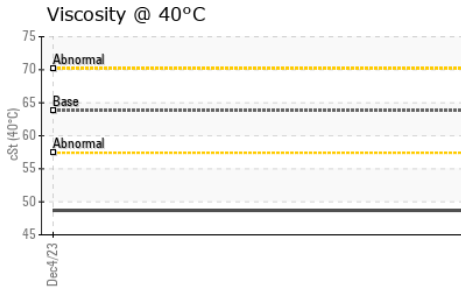
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.11	▲ **0.453**	---	---

OIL ANALYSIS REPORT







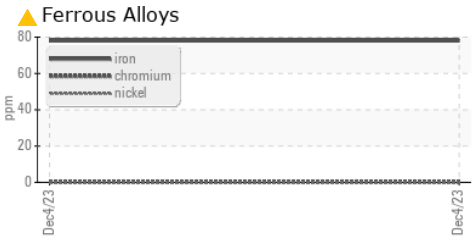


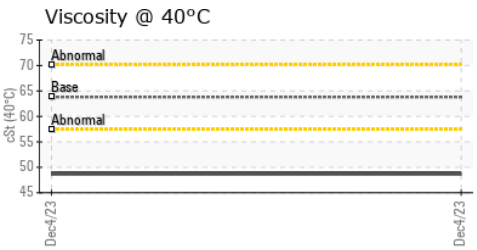
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	---	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	---	---
Precipitate	scalar	*Visual	NONE	**NONE**	---	---
Silt	scalar	*Visual	NONE	**NONE**	---	---
Debris	scalar	*Visual	NONE	**NONE**	---	---
Sand/Dirt	scalar	*Visual	NONE	**NONE**	---	---
Appearance	scalar	*Visual	NORML	**NORML**	---	---
Odor	scalar	*Visual	NORML	**NORML**	---	---
Emulsified Water	scalar	*Visual	>0.005	**NEG**	---	---
Free Water	scalar	*Visual		**NEG**	---	---

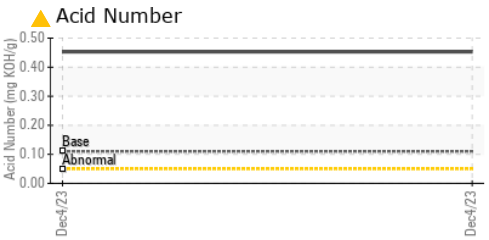
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	63.8	**48.7**	---	---

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

GRAPHS







Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0801214 **Received** : 08 Dec 2023
Lab Number : 06029466 **Diagnosed** : 13 Dec 2023
Unique Number : 10779257 **Diagnostician** : Jonathan Hester
Test Package : IND 2 (Additional Tests: KF)

SCHNEIDER ELECTRIC
411 NORTH FRONT ST
WILMINGTON, NC
US 28401
Contact: GRAHAM JACKSON
T: (910)813-7445
F:

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)