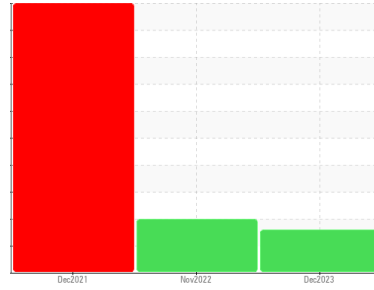




PROBLEM SUMMARY

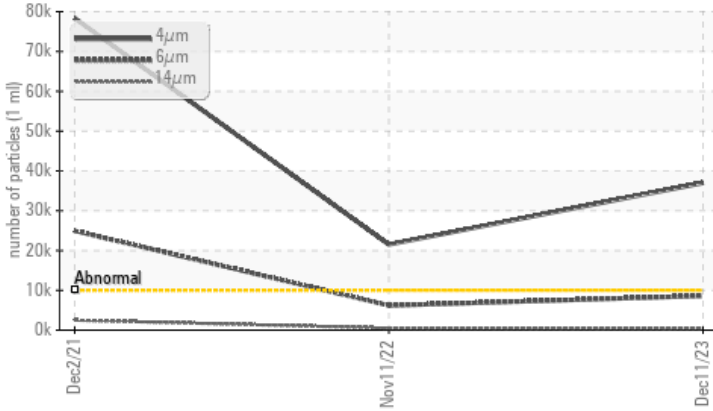
Area
COCA-COLA - WEST CREEK [4501201412]
 Machine Id
1976
 Component
Screw Compressor
 Fluid
CIMCO TYPE A (75 GAL)

Sample Rating Trend



COMPONENT CONDITION SUMMARY

▲ Particle Trend



RECOMMENDATION

We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status	ASTM D7647	Limit	ABNORMAL	ABNORMAL	SEVERE
Particles >4µm	ASTM D7647	>10000	▲ 36980	▲ 21513	▲ 78354
Particles >6µm	ASTM D7647	>2500	▲ 8617	▲ 6192	● 24933
Particles >14µm	ASTM D7647	>320	▲ 429	▲ 492	● 2507
Oil Cleanliness	ISO 4406 (c)	>20/18/15	▲ 22/20/16	▲ 22/20/16	● 23/22/19

Customer Id: CIMTOR
 Sample No.: WC0871332
 Lab Number: 02603226
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Wes Davis +1 905-569-8600 x223
wesd@wearcheck.ca

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

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Filter	---	---	?	We recommend you service the filters on this component.
Resample	---	---	?	We recommend an early resample to monitor this condition.

HISTORICAL DIAGNOSIS

11 Nov 2022 Diag: Wes Davis

ISO



We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. All component wear rates are normal. Oil Cleanliness are abnormally high. Particles >21µm are abnormally high. Particles >4µm are abnormally high. Particles >6µm are abnormally high. Particles >14µm are notably high. The water content is negligible. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

view report



DIRT



02 Dec 2021 Diag: Kevin Marson

Check seals and/or filters for points of contaminant entry. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample in 30-45 days to monitor this situation. All component wear rates are normal. Silicon ppm levels are severely high. Particles >6µm are severely high. Particles >14µm are severely high. Particles >21µm are severely high. Particles >4µm are abnormally high. Particles >38µm are abnormally high. Elemental level of silicon (Si) above normal indicating ingress of seal material and/or dirt. The water content is negligible. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

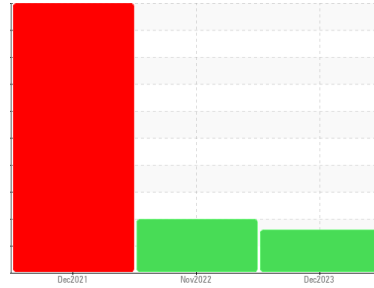
view report





OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area
COCA-COLA - WEST CREEK [4501201412]
 Machine Id
1976
 Component
Screw Compressor
 Fluid
CIMCO TYPE A (75 GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

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		WC0871332	WC0759248	WC0639031
Sample Date	Client Info		11 Dec 2023	11 Nov 2022	02 Dec 2021
Machine Age	hrs	Client Info	46990	43546	41170
Oil Age	hrs	Client Info	3474	8546	6170
Oil Changed	Client Info		Not Chngd	Not Chngd	Not Chngd
Sample Status			ABNORMAL	ABNORMAL	SEVERE

WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>60	2	<1	2
Chromium	ppm	ASTM D5185(m)	>4	0	0	0
Nickel	ppm	ASTM D5185(m)		0	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		<1	0	0
Aluminum	ppm	ASTM D5185(m)	>5	0	0	<1
Lead	ppm	ASTM D5185(m)	>10	0	0	0
Copper	ppm	ASTM D5185(m)	>30	<1	0	<1
Tin	ppm	ASTM D5185(m)	>15	0	0	0
Antimony	ppm	ASTM D5185(m)		0	<1	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0

ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)		<1	<1	<1
Barium	ppm	ASTM D5185(m)		<1	0	<1
Molybdenum	ppm	ASTM D5185(m)		0	0	0
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)		0	0	0
Calcium	ppm	ASTM D5185(m)		2	<1	<1
Phosphorus	ppm	ASTM D5185(m)		<1	0	<1
Zinc	ppm	ASTM D5185(m)		1	<1	<1
Sulfur	ppm	ASTM D5185(m)		6	11	4
Lithium	ppm	ASTM D5185(m)		<1	<1	<1

CONTAMINANTS

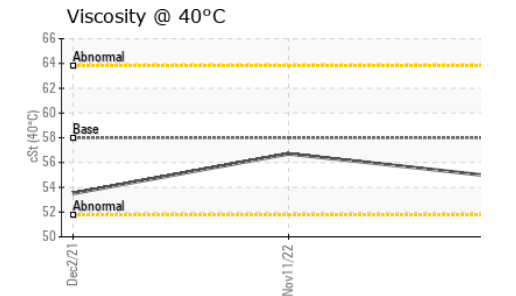
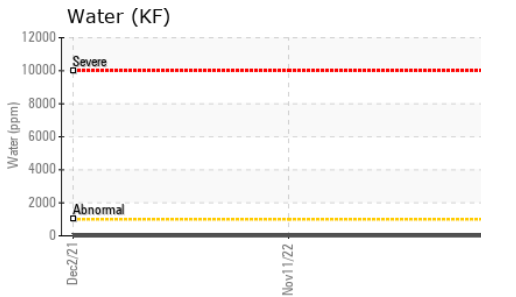
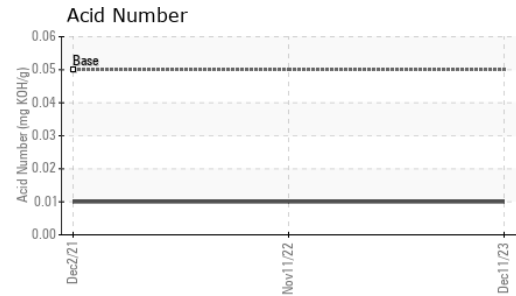
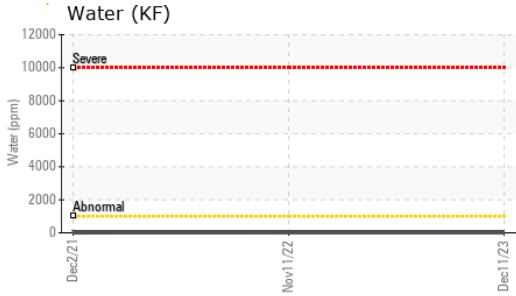
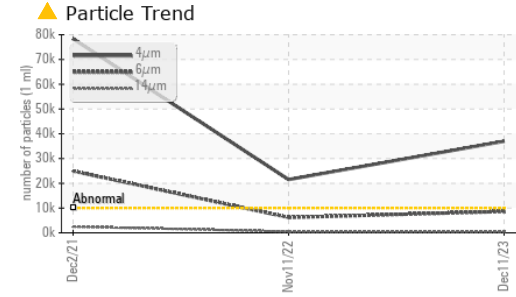
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>50	2	39	165
Sodium	ppm	ASTM D5185(m)		<1	0	0
Potassium	ppm	ASTM D5185(m)	>20	0	0	<1
Water	%	ASTM D6304*	>0.1	0.001	0.001	0.001
ppm Water	ppm	ASTM D6304*	>1000	7	7.1	1.2

FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>10000	36980	21513	78354
Particles >6µm	ASTM D7647	>2500	8617	6192	24933
Particles >14µm	ASTM D7647	>320	429	492	2507
Particles >21µm	ASTM D7647	>80	85	161	757
Particles >38µm	ASTM D7647	>20	7	11	53
Particles >71µm	ASTM D7647	>4	1	1	3
Oil Cleanliness	ISO 4406 (c)	>20/18/15	22/20/16	22/20/16	23/22/19



OIL ANALYSIS REPORT

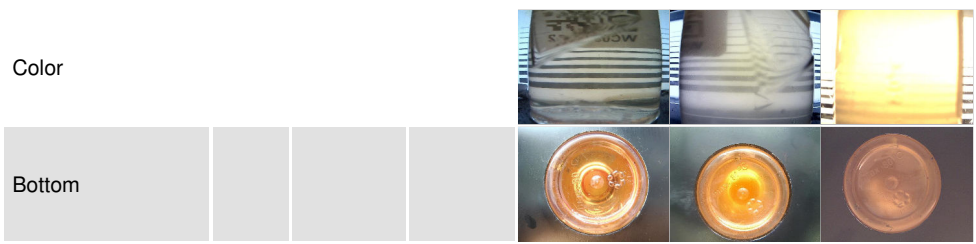


FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.05	0.01	0.01	0.01

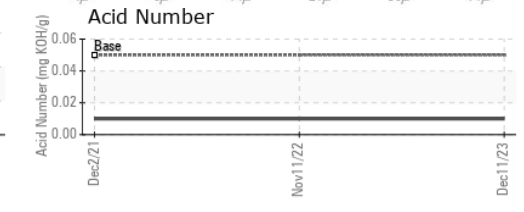
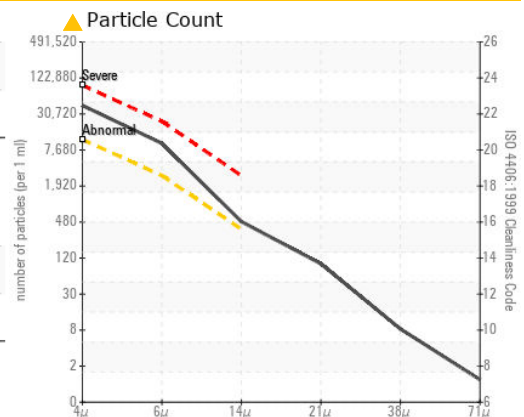
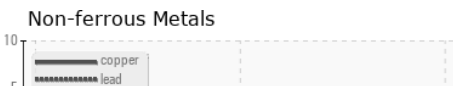
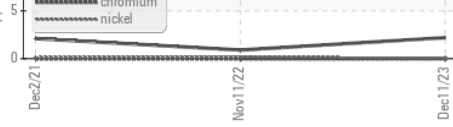
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	VLITE	VLITE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	AMMON
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	58	54.8	56.7	53.5

SAMPLE IMAGES		method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0871332 **Received** : 14 Dec 2023
Lab Number : **02603226** **Diagnosed** : 18 Dec 2023
Unique Number : 5696311 **Diagnostician** : Wes Davis
Test Package : IND 2 (Additional Tests: KF, TAN Man)

CIMCO Refrigeration
 1551 Corporate Drive
 Burlington, ON
 CA L7L 6M3
 Contact: DAVID PARISE
 DPARISE@ToROMONT.COM
 T: (416)465-7581
 F: (416)465-8815

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.