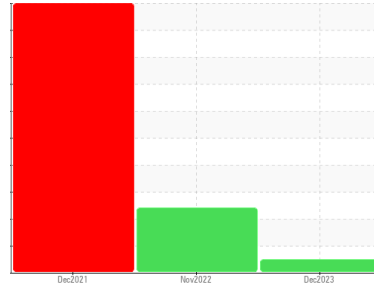




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
COCA-COLA - WEST CREEK [4501201412]

Machine Id
1850

Component
Screw Compressor

Fluid
CIMCO TYPE A (75 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. The system and fluid cleanliness is acceptable.

Fluid Condition

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		WC0871331	WC0759247	WC0639030
Sample Date	Client Info		11 Dec 2023	11 Nov 2022	02 Dec 2021
Machine Age	hrs	Client Info	44215	43200	40384
Oil Age	hrs	Client Info	699	8200	5384
Oil Changed	Client Info		Not Changed	Not Changd	Not Changed
Sample Status			NORMAL	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)		<1	0	<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	<1	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	0	<1
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)		<1	2	<1
Phosphorus	ppm	ASTM D5185(m)		0	0	<1
Zinc	ppm	ASTM D5185(m)		2	<1	2
Sulfur	ppm	ASTM D5185(m)		6	11	7
Lithium	ppm	ASTM D5185(m)		<1	<1	<1

CONTAMINANTS

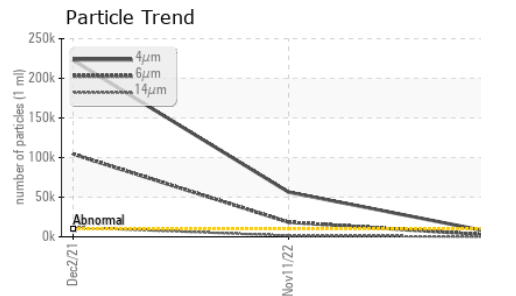
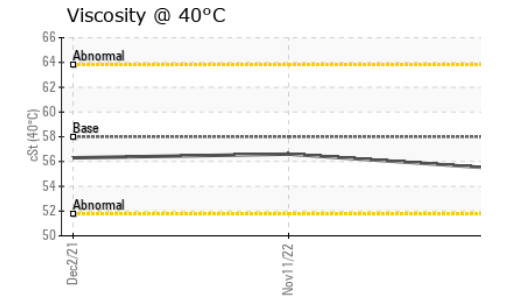
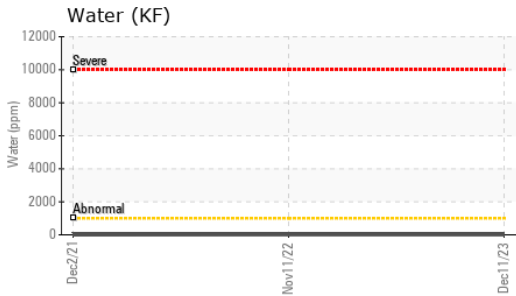
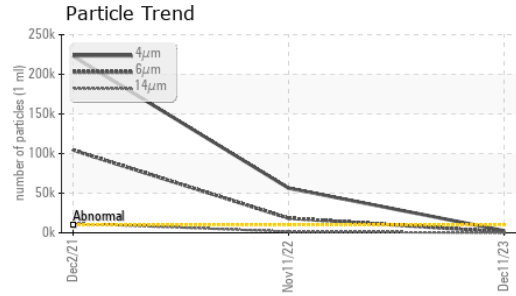
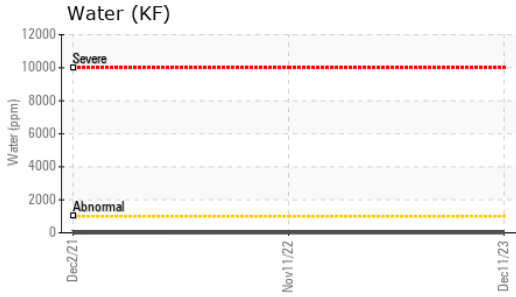
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>50	<1	1	▲ 76
Sodium	ppm	ASTM D5185(m)		0	0	0
Potassium	ppm	ASTM D5185(m)	>20	0	<1	<1
Water	%	ASTM D6304*	>0.1	0.001	0.001	0.001
ppm Water	ppm	ASTM D6304*	>1000	8	9.1	1.7

FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>10000	2693	▲ 56354	● 222838
Particles >6µm	ASTM D7647	>2500	947	▲ 18383	● 104346
Particles >14µm	ASTM D7647	>320	65	▲ 1493	● 11688
Particles >21µm	ASTM D7647	>80	21	▲ 475	● 3294
Particles >38µm	ASTM D7647	>20	2	▲ 31	● 200
Particles >71µm	ASTM D7647	>4	1	3	▲ 10
Oil Cleanliness	ISO 4406 (c)	>20/18/15	19/17/13	▲ 23/21/18	● 25/24/21



OIL ANALYSIS REPORT

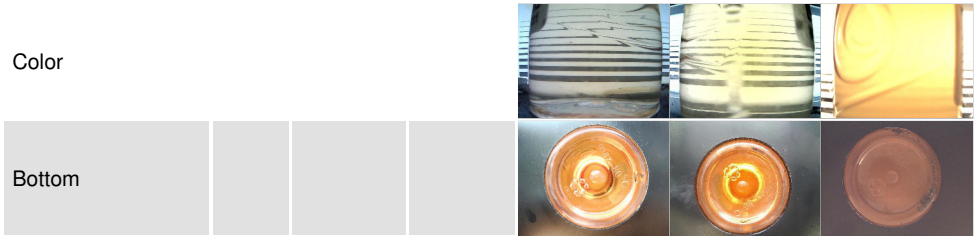


FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.05	0.01	0.01	0.02

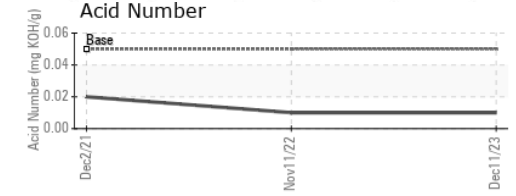
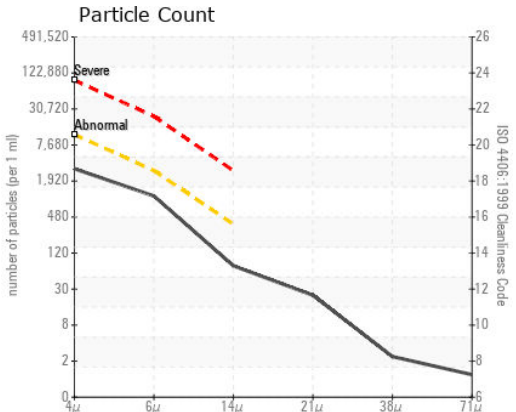
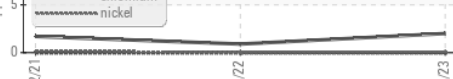
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE	VLITE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	VLITE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	▲ LIGHT
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	55.4	56.6	56.3

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. : WC0871331 **Received** : 14 Dec 2023
Lab Number : **02603227** **Diagnosed** : 18 Dec 2023
Unique Number : 5696312 **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.