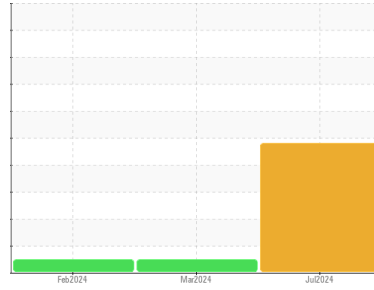




# OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id  
**KHS L3 CAPPER**

Component  
**Gearbox**

Fluid  
**KLUBER KLUBEROIL 4 UH1-460 N (--- GAL)**

## DIAGNOSIS

### Recommendation

We advise that you check all areas where dirt can enter the system. We recommend either performing an oil change or oil filtration. We cannot recommend specific action as we have limited information with regards to reservoir capacity and/or lubricant type. 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. We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

### Wear

Aluminum and copper ppm levels are abnormal. Tin ppm levels are noted. Thrust washer and/or bearing/bushing wear is indicated.

### Contamination

There is a moderate concentration of dirt present in the oil. The water content is negligible. High amount of ingressed dirt has caused abrasive wear to the component.

### Fluid Condition

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0954006</b>	WC0916676	WC0906582
Sample Date	Client Info		<b>02 Jul 2024</b>	28 Mar 2024	16 Feb 2024
Machine Age	hrs	Client Info	<b>0</b>	0	0
Oil Age	hrs	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>N/A</b>	N/A	Changed
Sample Status			<b>ABNORMAL</b>	NORMAL	NORMAL

## WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>200	<b>120</b>	46	63
Chromium	ppm	ASTM D5185(m)	>15	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>15	<b>2</b>	<1	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)		<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>25	<b>▲ 38</b>	<1	1
Lead	ppm	ASTM D5185(m)	>100	<b>30</b>	14	16
Copper	ppm	ASTM D5185(m)	>200	<b>▲ 235</b>	118	132
Tin	ppm	ASTM D5185(m)	>25	<b>● 20</b>	10	12
Antimony	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	0	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	0	0

## ADDITIVES

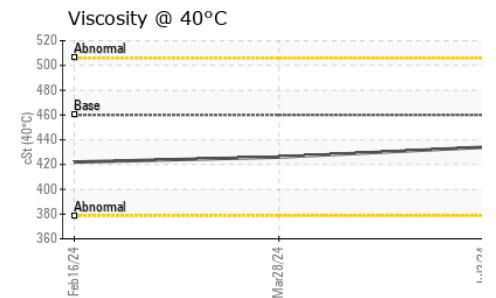
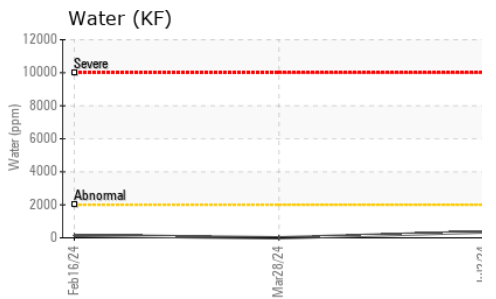
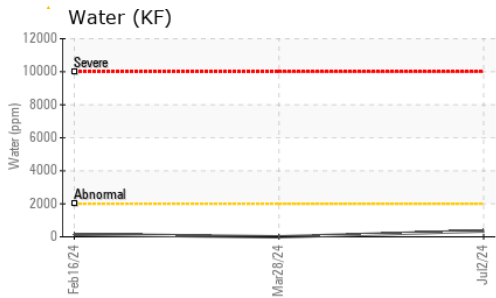
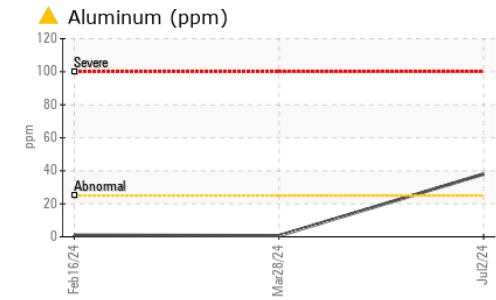
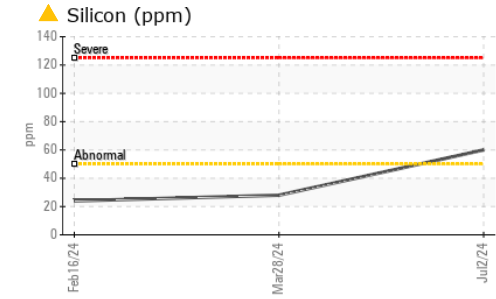
	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1
Barium	ppm	ASTM D5185(m)		<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185(m)		<b>0</b>	0	0
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	0	0
Magnesium	ppm	ASTM D5185(m)		<b>&lt;1</b>	0	<1
Calcium	ppm	ASTM D5185(m)		<b>13</b>	6	2
Phosphorus	ppm	ASTM D5185(m)		<b>598</b>	570	572
Zinc	ppm	ASTM D5185(m)		<b>1657</b>	43	23
Sulfur	ppm	ASTM D5185(m)		<b>607</b>	556	578
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1

## CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>50	<b>▲ 60</b>	28	24
Sodium	ppm	ASTM D5185(m)		<b>29</b>	2	2
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1
Water	%	ASTM D6304*	>0.2	<b>0.035</b>	---	0.014
ppm Water	ppm	ASTM D6304*	>2000	<b>353</b>	---	143



# OIL ANALYSIS REPORT



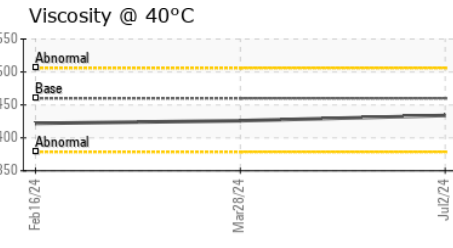
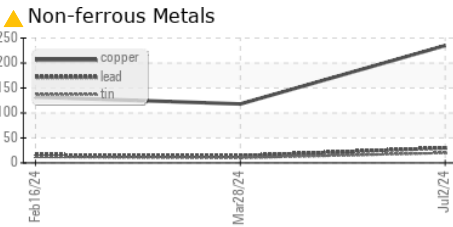
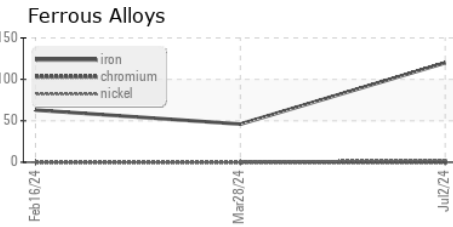
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	Visual*	NONE	<b>NONE</b>	NONE	LIGHT
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	NONE	VLITE
Appearance	scalar	Visual*	NORML	<b>▲ MILKY</b>	HAZY	NORML
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	<b>.2%</b>	NEG	.5%
Free Water	scalar	Visual*		<b>NEG</b>	NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D7279(m)	460	<b>434</b>	426	422

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.** : WC0954006  
**Lab Number** : 02648247  
**Unique Number** : 5813799  
**Test Package** : IND 1 ( Additional Tests: KF )  
**Received** : 16 Jul 2024  
**Tested** : 21 Jul 2024  
**Diagnosed** : 21 Jul 2024 - Kevin Marson

**COCA COLA CANADA BOTTLING LTD.**  
 15 WEST CREEK BLVD  
 BRAMPTON, ON  
 CA L6T 5T4  
 Contact: Chandan Ahuja  
 cahuja@cokecanada.com  
 T: (635)440-5087  
 F:

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.