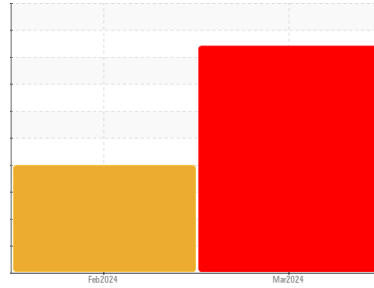




# PROBLEM SUMMARY

Sample Rating Trend

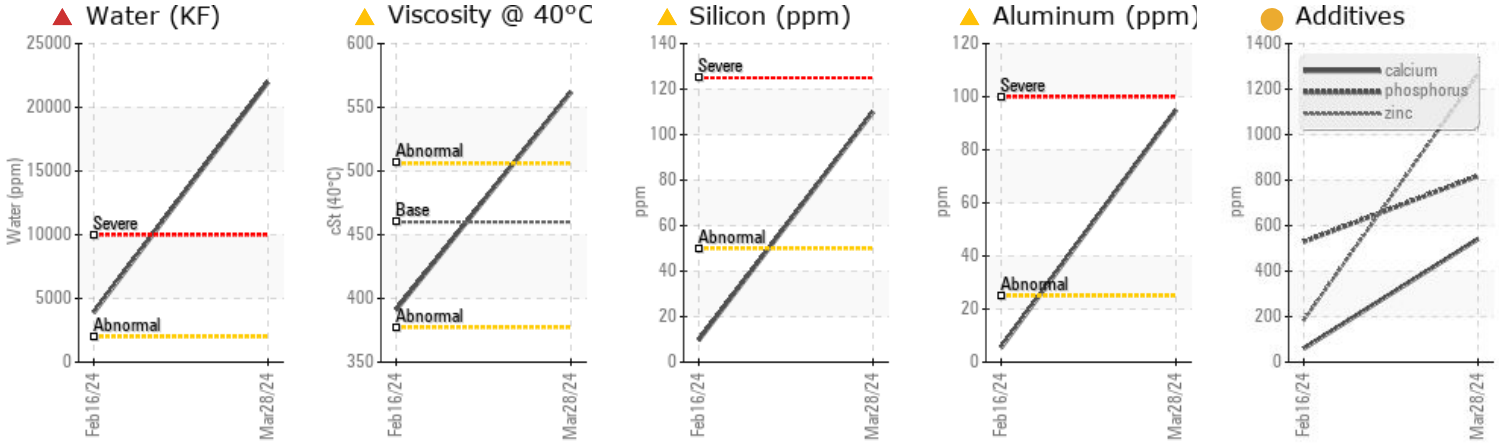


**WATER**



Machine Id  
**KHS L3 FILLER MAIN**  
 Component  
**Gearbox**  
 Fluid  
**KLUBER KLUBEROIL 4 UH1-460 N (--- GAL)**

## COMPONENT CONDITION SUMMARY



## RECOMMENDATION

We advise that you check for the source of water entry. Check seals and/or filters for points of contaminant entry. We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. 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 you service the filters on this component. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

## PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	ABNORMAL	---
Aluminum	ppm	ASTM D5185(m)	>25	▲ 95	6	---
Silicon	ppm	ASTM D5185(m)	>50	▲ 110	10	---
Water	%	ASTM D6304*	>0.2	▲ 2.197	▲ 0.389	---
ppm Water	ppm	ASTM D6304*	>2000	▲ 21975	▲ 3890	---
Appearance	scalar	Visual*	NORML	▲ MILKY	▲ MILKY	---
Emulsified Water	scalar	Visual*	>0.2	▲ 1%	▲ 1%	---
Visc @ 40°C	cSt	ASTM D7279(m)	460	▲ 562	391	---

Customer Id: COC15BRA  
 Sample No.: WC0916679  
 Lab Number: 02626485  
 Test Package: IND 1



To manage this report scan the QR code

To discuss the diagnosis or test data:  
 Kevin Marson +1 (289)291-4644 x4644  
[Kevin.Marson@wearcheck.com](mailto:Kevin.Marson@wearcheck.com)

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

## RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Fluid	---	---	?	We recommend that you drain the oil from the component if this has not already been done.
Change Filter	---	---	?	We recommend you service the filters on this component.
Resample	---	---	?	We recommend an early resample to monitor this condition.
Information Required	---	---	?	NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.
Check Breathers	---	---	?	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.
Check Dirt Access	---	---	?	We advise that you check all areas where dirt can enter the system.
Check Fluid Source	---	---	?	Confirm the source of the lubricant being utilized for top-up/fill.
Check Water Access	---	---	?	We advise that you check for the source of water entry.
Check Seals	---	---	?	Check seals and/or filters for points of contaminant entry.

## HISTORICAL DIAGNOSIS

WATER



### 16 Feb 2024 Diag: Kevin Marson

We advise that you check for the source of water entry. Check seals and/or filters for points of contaminant entry. 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. The oil change at the time of sampling has been noted. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. All component wear rates are normal. There is a moderate concentration of water present in the oil. There is a moderate amount of visible silt present in the sample. Additive levels indicate the addition of a different brand, or type of oil. The oil is no longer serviceable due to the presence of contaminants.

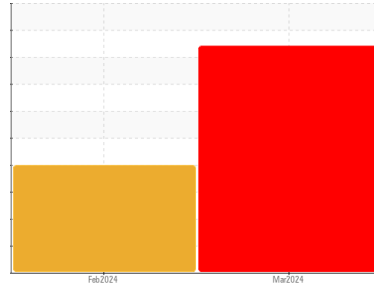
view report





# OIL ANALYSIS REPORT

Sample Rating Trend



WATER



Machine Id  
**KHS L3 FILLER MAIN**  
 Component  
**Gearbox**  
 Fluid  
**KLUBER KLUBEROIL 4 UH1-460 N (--- GAL)**

## DIAGNOSIS

### ▲ Recommendation

We advise that you check for the source of water entry. Check seals and/or filters for points of contaminant entry. We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. 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 you service the filters on this component. Confirm the source of the lubricant being utilized for top-up/fill. 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 ppm levels are abnormal. Thrust washer and/or bearing/bushing wear is indicated.

### ▲ Contamination

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

### ▲ Fluid Condition

The viscosity of the oil is higher than normal, possibly indicating the addition of a heavier grade of oil. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. 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>WC0916679</b>	WC0906581	---
Sample Date	Client Info		<b>28 Mar 2024</b>	16 Feb 2024	---
Machine Age	hrs	Client Info	<b>0</b>	0	---
Oil Age	hrs	Client Info	<b>0</b>	0	---
Oil Changed	Client Info		<b>N/A</b>	Changed	---
Sample Status			<b>SEVERE</b>	ABNORMAL	---

## WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>200	<b>24</b>	8	---
Chromium	ppm	ASTM D5185(m)	>15	<b>0</b>	0	---
Nickel	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	0	---
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Silver	ppm	ASTM D5185(m)		<b>0</b>	0	---
Aluminum	ppm	ASTM D5185(m)	>25	<b>▲ 95</b>	6	---
Lead	ppm	ASTM D5185(m)	>100	<b>4</b>	<1	---
Copper	ppm	ASTM D5185(m)	>200	<b>50</b>	11	---
Tin	ppm	ASTM D5185(m)	>25	<b>3</b>	<1	---
Antimony	ppm	ASTM D5185(m)	>5	<b>0</b>	0	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	0	---

## ADDITIVES

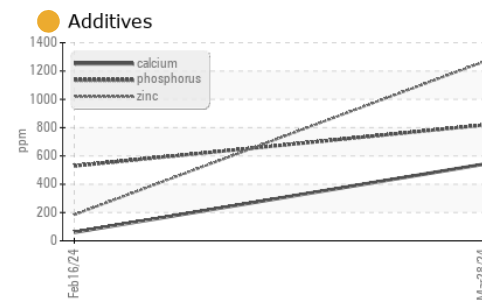
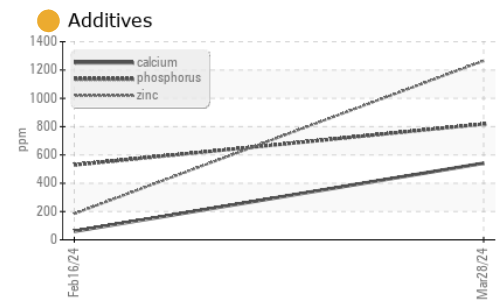
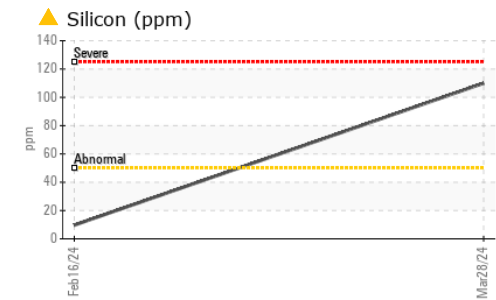
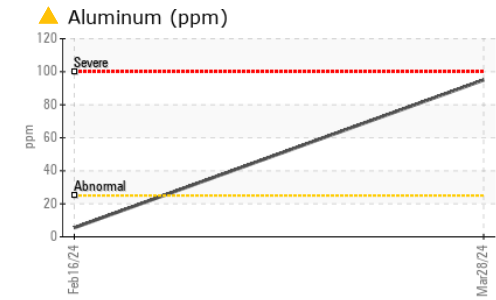
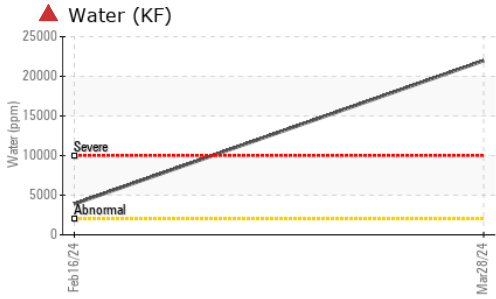
	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)		<b>2</b>	1	---
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185(m)		<b>0</b>	0	---
Manganese	ppm	ASTM D5185(m)		<b>0</b>	0	---
Magnesium	ppm	ASTM D5185(m)		<b>3</b>	<1	---
Calcium	ppm	ASTM D5185(m)		<b>● 541</b>	● 60	---
Phosphorus	ppm	ASTM D5185(m)		<b>● 818</b>	529	---
Zinc	ppm	ASTM D5185(m)		<b>● 1265</b>	● 184	---
Sulfur	ppm	ASTM D5185(m)		<b>● 1125</b>	762	---
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	---

## CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>50	<b>▲ 110</b>	10	---
Sodium	ppm	ASTM D5185(m)		<b>776</b>	21	---
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b>	<1	---
Water	%	ASTM D6304*	>0.2	<b>▲ 2.197</b>	▲ 0.389	---
ppm Water	ppm	ASTM D6304*	>2000	<b>▲ 21975</b>	▲ 3890	---



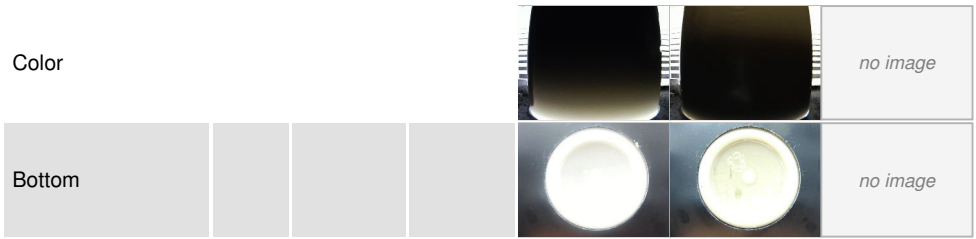
# OIL ANALYSIS REPORT



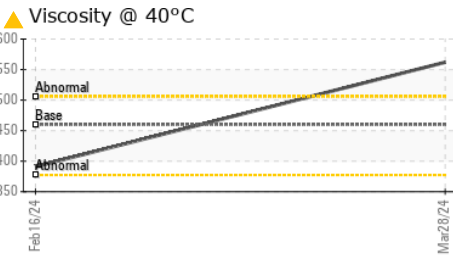
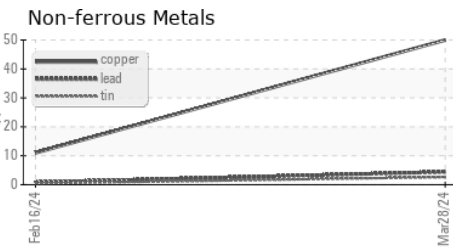
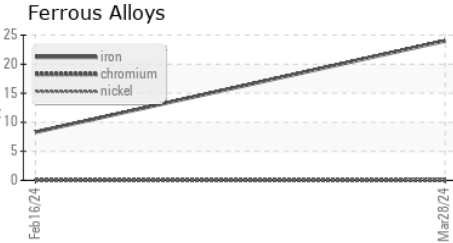
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	---
Precipitate	scalar	Visual*	NONE	NONE	---
Silt	scalar	Visual*	NONE	▲ HEAVY	---
Debris	scalar	Visual*	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	VLITE	---
Appearance	scalar	Visual*	NORML	▲ MILKY	▲ MILKY
Odor	scalar	Visual*	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.2	▲ 1%	---
Free Water	scalar	Visual*		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	460	▲ 562	391

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.** : WC0916679      **Received** : 03 Apr 2024  
**Lab Number** : 02626485      **Tested** : 04 Apr 2024  
**Unique Number** : 5759617      **Diagnosed** : 04 Apr 2024 - Kevin Marson  
**Test Package** : IND 1 ( Additional Tests: KF )

**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.