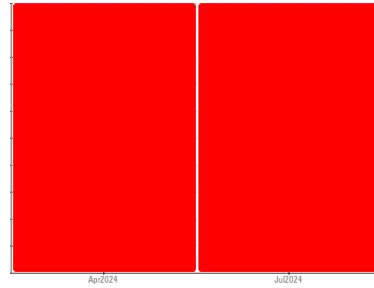




PROBLEM SUMMARY

Sample Rating Trend



WEAR



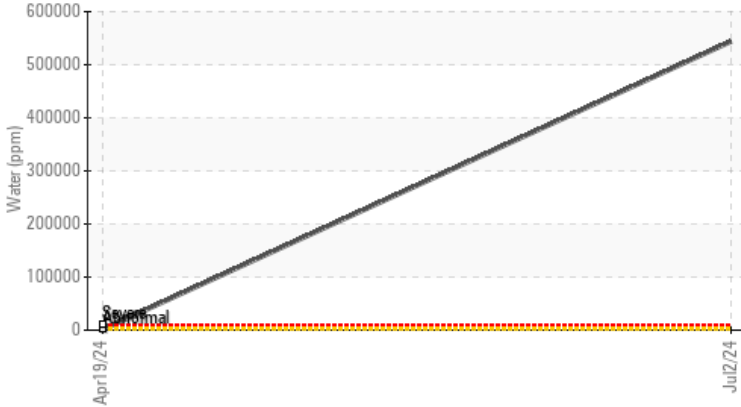
Machine Id
KHS L2 TANDLER

Component
Gearbox

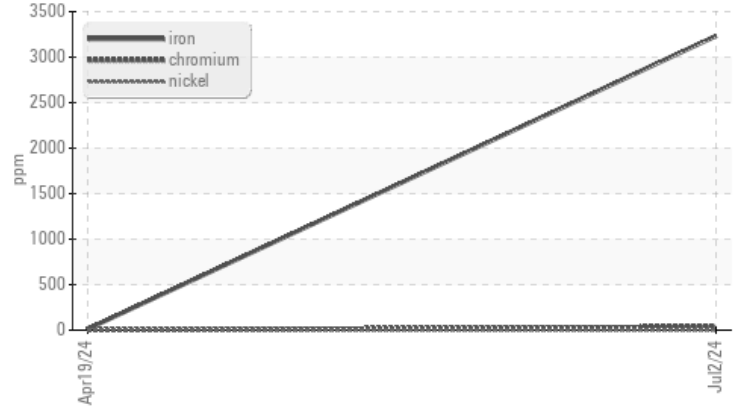
Fluid
KLUBER KLUBEROIL 4 UH1-460 N (--- GAL)

COMPONENT CONDITION SUMMARY

▲ Water (KF)



▲ Ferrous Alloys



RECOMMENDATION

We advise that you check for the source of water entry. Check seals and/or filters for points of contaminant entry. We recommend that you drain the oil from the component if this has not already been done. We advise that you follow the water drain-off procedure for this component. 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	SEVERE	---
Iron	ppm	ASTM D5185(m)	>200	▲ 3233	12	---
Chromium	ppm	ASTM D5185(m)	>15	▲ 38	0	---
Water	%	ASTM D6304*	>0.2	▲ 54.35	0.066	---
ppm Water	ppm	ASTM D6304*	>2000	▲ 543590	663	---
Appearance	scalar	Visual*	NORML	▲ MILKY	▲ MILKY	---
Emulsified Water	scalar	Visual*	>0.2	▲ .5%	.5%	---

Customer Id: COC15BRA
 Sample No.: WC0953987
 Lab Number: 02648239
 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

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 Fluid	---	---	?	We recommend that you drain the oil from the component if this has not already been done.
Water Drain-off	---	---	?	We advise that you follow the water drain-off procedure for 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 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

WEAR



19 Apr 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. We advise that you check all areas where dirt can enter the system. 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 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. 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. Aluminum ppm levels are severe. Thrust washer and/or bearing/bushing wear is indicated. There is a moderate concentration of water present in the oil. Free water present. High concentration of dirt present in the oil. High amount of ingressed dirt has caused abrasive wear to the component. Additive levels indicate the addition of a different brand, or type of oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

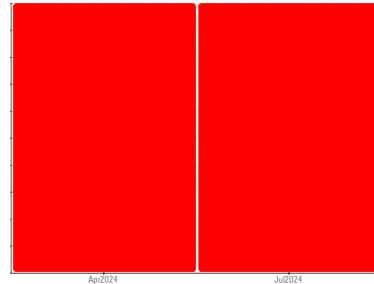
view report





OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Machine Id
KHS L2 TANDLER

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 recommend that you drain the oil from the component if this has not already been done. We advise that you follow the water drain-off procedure for this component. 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

Iron ppm levels are severe. Chromium ppm levels are abnormal. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion.

▲ Contamination

There is a high concentration of water present in the oil.

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		WC0953987	WC0916670	---
Sample Date	Client Info		02 Jul 2024	19 Apr 2024	---
Machine Age	hrs	Client Info	0	0	---
Oil Age	hrs	Client Info	0	0	---
Oil Changed	Client Info		N/A	N/A	---
Sample Status			SEVERE	SEVERE	---

WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184*		102	---	---
Iron	ppm	ASTM D5185(m) >200	▲ 3233	12	---
Chromium	ppm	ASTM D5185(m) >15	▲ 38	0	---
Nickel	ppm	ASTM D5185(m) >15	0	0	---
Titanium	ppm	ASTM D5185(m)	0	<1	---
Silver	ppm	ASTM D5185(m)	0	0	---
Aluminum	ppm	ASTM D5185(m) >25	<1	▲ 155	---
Lead	ppm	ASTM D5185(m) >100	0	0	---
Copper	ppm	ASTM D5185(m) >200	3	<1	---
Tin	ppm	ASTM D5185(m) >25	0	0	---
Antimony	ppm	ASTM D5185(m) >5	0	0	---
Vanadium	ppm	ASTM D5185(m)	0	0	---
Beryllium	ppm	ASTM D5185(m)	0	0	---
Cadmium	ppm	ASTM D5185(m)	0	0	---

ADDITIVES

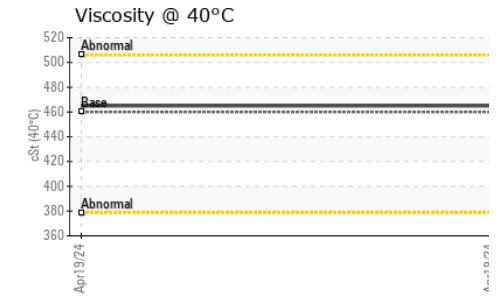
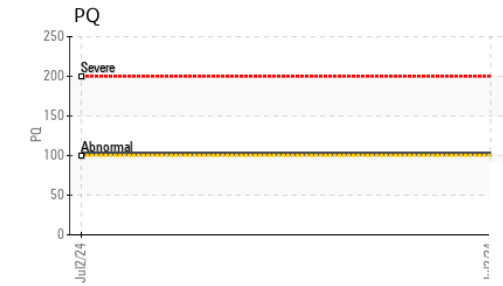
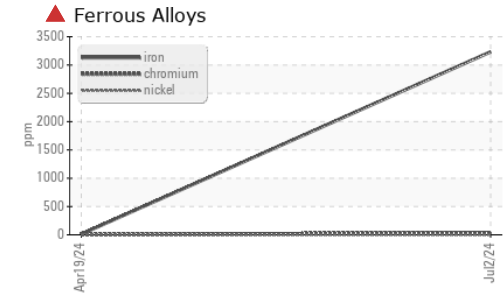
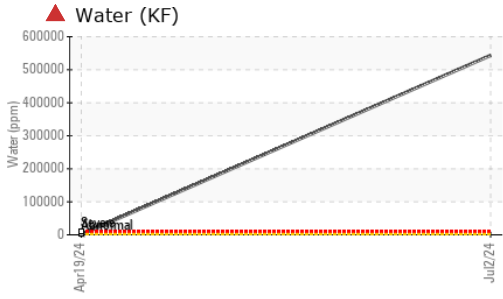
	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	8	1	---
Barium	ppm	ASTM D5185(m)	0	0	---
Molybdenum	ppm	ASTM D5185(m)	<1	0	---
Manganese	ppm	ASTM D5185(m)	5	0	---
Magnesium	ppm	ASTM D5185(m)	1	4	---
Calcium	ppm	ASTM D5185(m)	8	● 701	---
Phosphorus	ppm	ASTM D5185(m)	323	● 811	---
Zinc	ppm	ASTM D5185(m)	10	● 3179	---
Sulfur	ppm	ASTM D5185(m)	629	● 1246	---
Lithium	ppm	ASTM D5185(m)	<1	<1	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >50	25	▲ 165	---
Sodium	ppm	ASTM D5185(m)	4	▲ 939	---
Potassium	ppm	ASTM D5185(m) >20	1	4	---
Water	%	ASTM D6304* >0.2	▲ 54.35	0.066	---
ppm Water	ppm	ASTM D6304* >2000	▲ 543590	663	---



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	▲ MILKY	▲ MILKY
Odor	scalar	Visual*	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.2	▲ .5%	.5%
Free Water	scalar	Visual*		NEG	▲ 5%

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	460	---	465

SAMPLE IMAGES	method	limit/base	current	history1	history2
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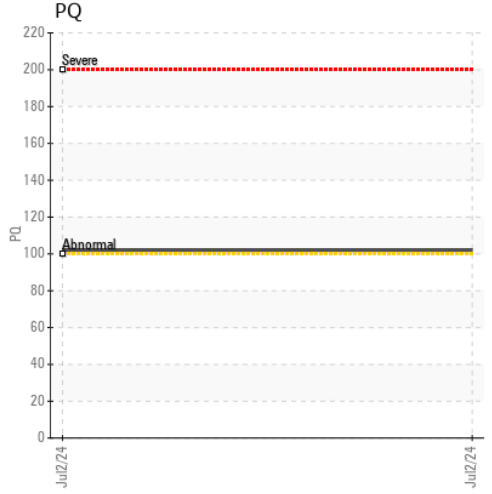
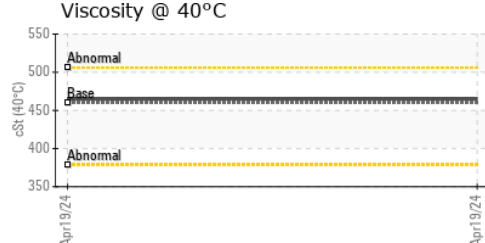
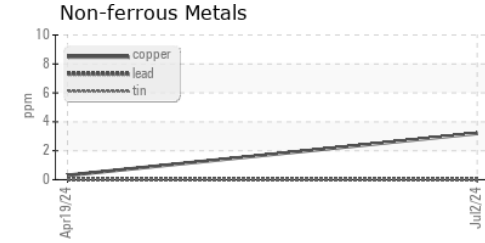
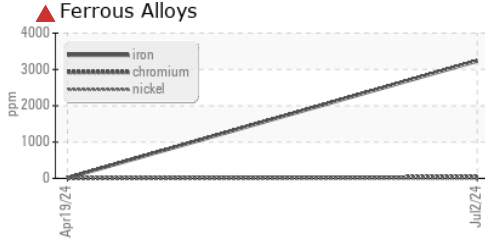
Color

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Bottom

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GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0953987 **Received** : 16 Jul 2024
Lab Number : 02648239 **Tested** : 19 Jul 2024
Unique Number : 5813791 **Diagnosed** : 19 Jul 2024 - Kevin Marson
Test Package : IND 1 (Additional Tests: KF, PQ)

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.