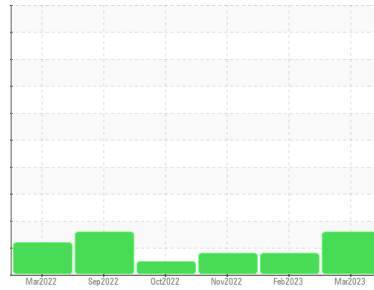




# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area  
**IBACO [CONHER]**  
Machine Id  
**IBACO BM COZAR IX**  
Component  
**Transmission (Manual)**  
Fluid  
**Transmission (Manual) Oil (60 LTR)**

## DIAGNOSIS

### Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is a high amount of particulates present in the fluid.

### Fluid Condition

The AN level is acceptable for this fluid. The condition of the fluid is suitable for further service.

## SAMPLE INFORMATION

	method	limit/base	current	history 1	history 2
Sample Number	Client Info		<b>KL0011407</b>	KL0011342	KL0011237
Sample Date	Client Info		<b>30 Mar 2023</b>	17 Feb 2023	12 Nov 2022
Machine Age	hrs	Client Info	<b>10604</b>	0	9363
Oil Age	hrs	Client Info	<b>1971</b>	0	730
Oil Changed	Client Info		<b>Not Chngd</b>	N/A	Not Chngd
Sample Status			<b>ABNORMAL</b>	ATTENTION	ABNORMAL

## WEAR METALS

	method	limit/base	current	history 1	history 2	
Iron	ppm	ASTM D5185m	>200	<b>9</b>	8	11
Chromium	ppm	ASTM D5185m	>5	<b>0</b>	0	<1
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m	>7	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>&lt;1</b>	0	<1
Lead	ppm	ASTM D5185m	>45	<b>5</b>	5	7
Copper	ppm	ASTM D5185m	>225	<b>37</b>	35	74
Tin	ppm	ASTM D5185m	>10	<b>0</b>	0	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history 1	history 2	
Boron	ppm	ASTM D5185m		<b>0</b>	0	0
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>8</b>	6	9
Calcium	ppm	ASTM D5185m		<b>3251</b>	3012	3184
Phosphorus	ppm	ASTM D5185m		<b>964</b>	860	874
Zinc	ppm	ASTM D5185m		<b>818</b>	708	730
Sulfur	ppm	ASTM D5185m		<b>6476</b>	6328	6620

## CONTAMINANTS

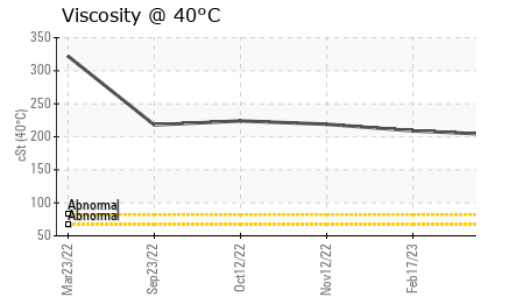
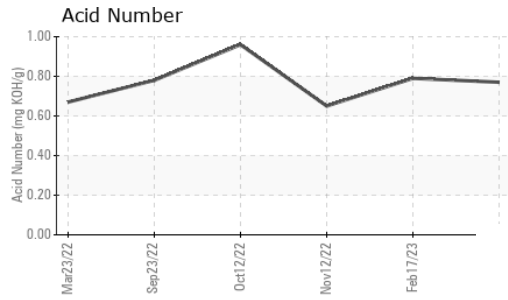
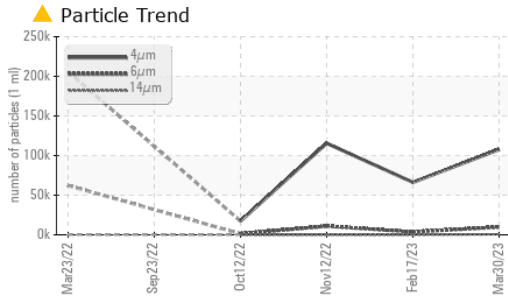
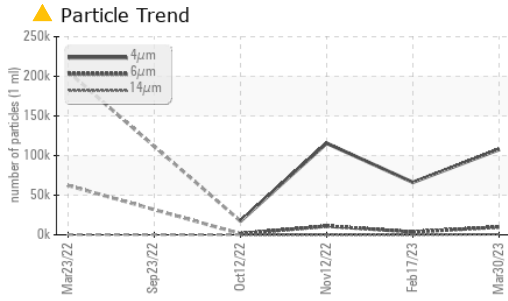
	method	limit/base	current	history 1	history 2	
Silicon	ppm	ASTM D5185m	>125	<b>6</b>	6	6
Sodium	ppm	ASTM D5185m		<b>12</b>	9	22
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	0	0

## FLUID CLEANLINESS

	method	limit/base	current	history 1	history 2
Particles >4µm	ASTM D7647		<b>107684</b>	66231	115511
Particles >6µm	ASTM D7647	>2500	▲ <b>9702</b>	▲ 3603	▲ 10922
Particles >14µm	ASTM D7647	>320	▲ <b>668</b>	86	62
Particles >21µm	ASTM D7647	>80	▲ <b>200</b>	20	11
Particles >38µm	ASTM D7647	>20	<b>8</b>	1	0
Particles >71µm	ASTM D7647	>4	<b>1</b>	0	0
Oil Cleanliness	ISO 4406 (c)	>18/15	▲ <b>20/17</b>	▲ 19/14	▲ 21/13

## FLUID DEGRADATION

	method	limit/base	current	history 1	history 2
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>0.77</b>	0.79	0.65



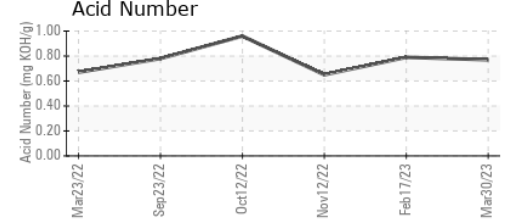
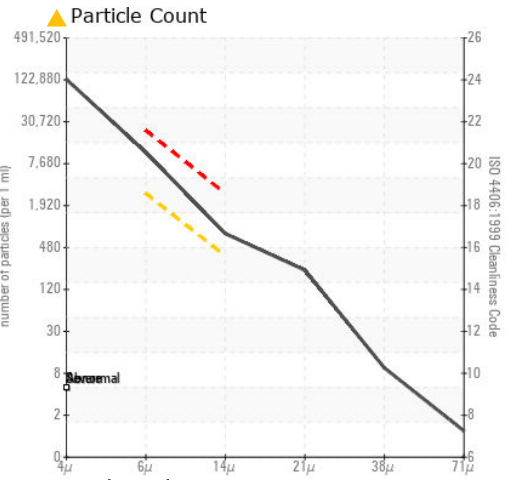
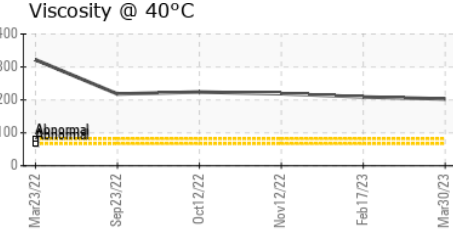
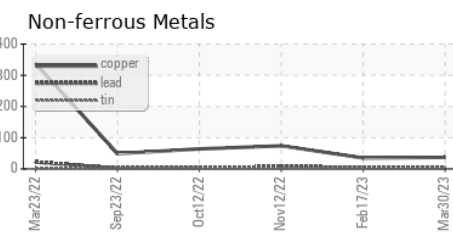
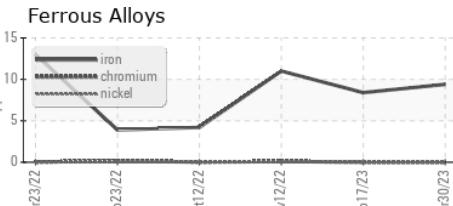
VISUAL	method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D445	203	209	219

SAMPLE IMAGES	method	limit/base	current	history 1	history 2
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## GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
 Sample No. : KL0011407 Received : 14 Apr 2023  
 Lab Number : 05820881 Diagnosed : 20 Apr 2023  
 Unique Number : 10428964 Diagnostician : Jonathan Hester  
 Test Package : MOB 2 ( Additional Tests: PrtCount )

To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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