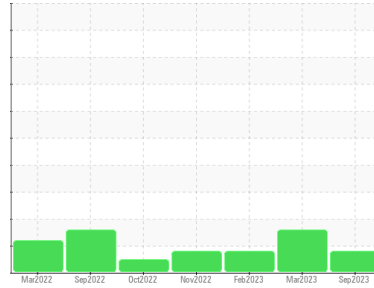




# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area  
**IBACO [CONHER]**  
Machine Id  
**IBACO BM COZAR IX**  
Component  
**Transmission (Manual)**  
Fluid  
**RALOY SAE 50 (60 LTR)**

## DIAGNOSIS

### Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is a high amount of silt (particulates < 14 microns in size) 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	history1	history2
Sample Number	Client Info		<b>KL0012874</b>	KL0011407	KL0011342
Sample Date	Client Info		<b>22 Sep 2023</b>	30 Mar 2023	17 Feb 2023
Machine Age	hrs	Client Info	<b>10606</b>	10604	0
Oil Age	hrs	Client Info	<b>1973</b>	1971	0
Oil Changed	Client Info		<b>Changed</b>	Not Changd	N/A
Sample Status			<b>ABNORMAL</b>	ABNORMAL	ATTENTION

## WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>200	<b>17</b>	9	8
Chromium	ppm	ASTM D5185m	>5	<b>0</b>	0	0
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>	<1	0
Lead	ppm	ASTM D5185m	>45	<b>6</b>	5	5
Copper	ppm	ASTM D5185m	>225	<b>45</b>	37	35
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		<b>0</b>	0	0
Barium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>0</b>	<1	<1
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>14</b>	8	6
Calcium	ppm	ASTM D5185m		<b>3368</b>	3251	3012
Phosphorus	ppm	ASTM D5185m		<b>1024</b>	964	860
Zinc	ppm	ASTM D5185m		<b>849</b>	818	708
Sulfur	ppm	ASTM D5185m		<b>6190</b>	6476	6328

## CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>125	<b>9</b>	6	6
Sodium	ppm	ASTM D5185m		<b>16</b>	12	9
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	0

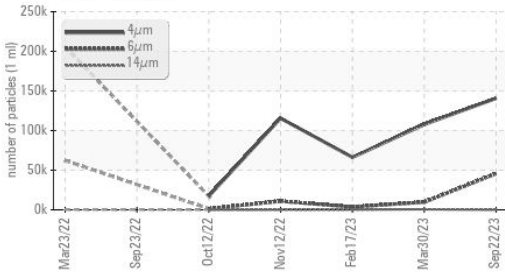
## FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		<b>140766</b>	107684	66231
Particles >6µm	ASTM D7647	>2500	<b>▲ 45771</b>	▲ 9702	▲ 3603
Particles >14µm	ASTM D7647	>320	<b>62</b>	▲ 668	86
Particles >21µm	ASTM D7647	>80	<b>12</b>	▲ 200	20
Particles >38µm	ASTM D7647	>20	<b>2</b>	8	1
Particles >71µm	ASTM D7647	>4	<b>1</b>	1	0
Oil Cleanliness	ISO 4406 (c)	>18/15	<b>▲ 23/13</b>	▲ 20/17	▲ 19/14

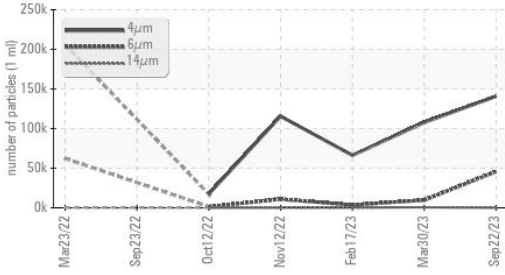
## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>0.71</b>	0.77	0.79

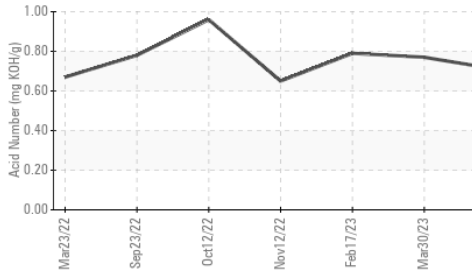
### ▲ Particle Trend



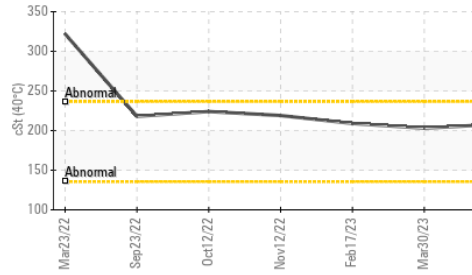
### ▲ Particle Trend



### Acid Number



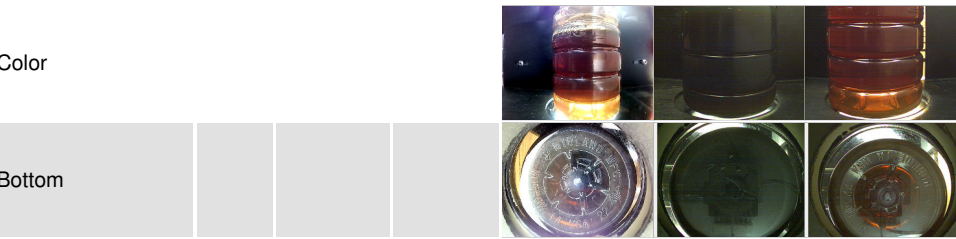
### Viscosity @ 40°C



VISUAL	method	limit/base	current	history1	history2
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

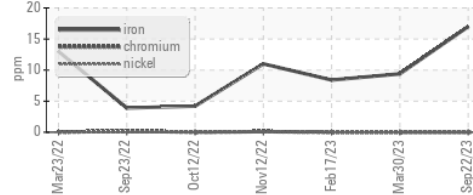
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	208	203	209

### SAMPLE IMAGES

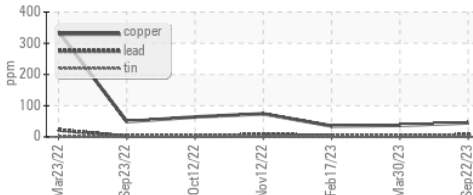


### GRAPHS

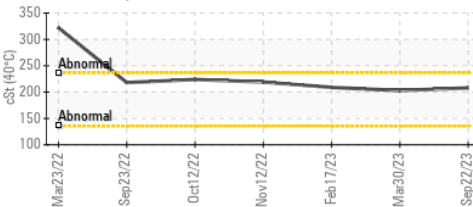
#### Ferrous Alloys



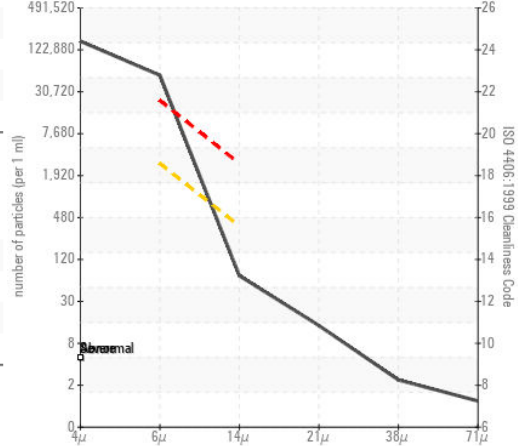
#### Non-ferrous Metals



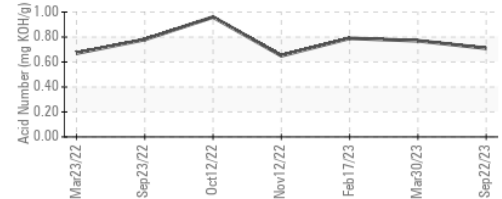
#### Viscosity @ 40°C



#### ▲ Particle Count



#### Acid Number



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KL0012874 **Received** : 29 Sep 2023  
**Lab Number** : 05964555 **Diagnosed** : 02 Oct 2023  
**Unique Number** : 10671106 **Diagnostician** : Don Baldrige  
**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)

**CONOR**  
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