



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

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

## RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor. ( Customer Sample Comment: Fluid: Raloy SAE 50 )

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>KL0014198</b>	KL0014156	KL0013428
Sample Date		Client Info		<b>20 Mar 2024</b>	06 Feb 2024	14 Nov 2023
Machine Age	hrs	Client Info		<b>0</b>	12106	11466
Oil Age	hrs	Client Info		<b>225</b>	1500	860
Filter Age	hrs	Client Info		<b>225</b>	1500	860
Oil Changed		Client Info		<b>Not Changd</b>	Changed	Not Changd
Filter Changed		Client Info		<b>Not Changd</b>	Changed	Not Changd
Sample Status				<b>ABNORMAL</b>	ATTENTION	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>200	<b>14</b>	13	5
Chromium	ppm	ASTM D5185m	>5	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m	>7	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>18</b>	16	<1
Lead	ppm	ASTM D5185m	>45	<b>5</b>	5	6
Copper	ppm	ASTM D5185m	>225	<b>39</b>	32	32
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

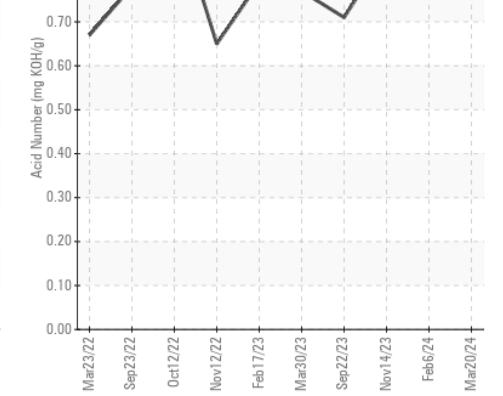
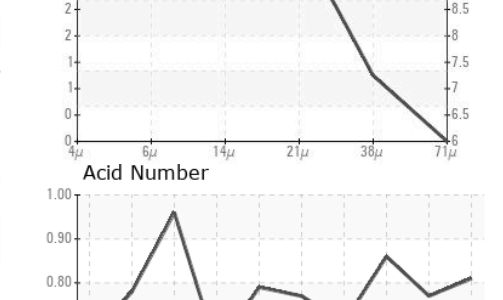
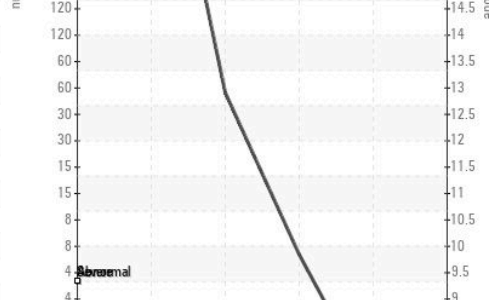
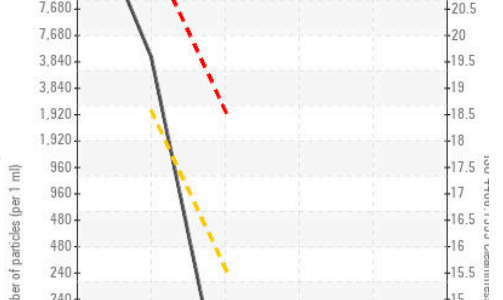
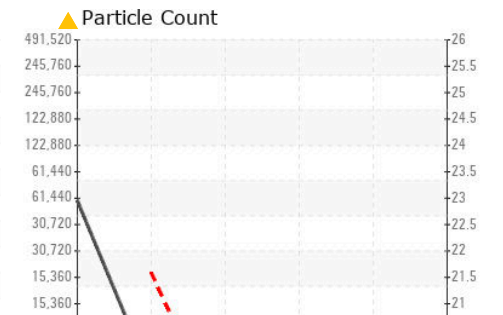
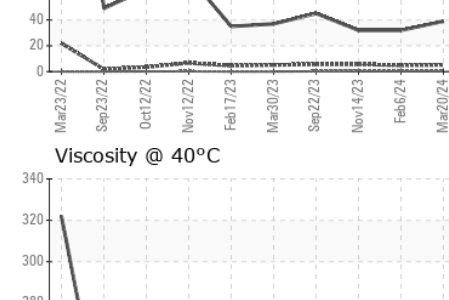
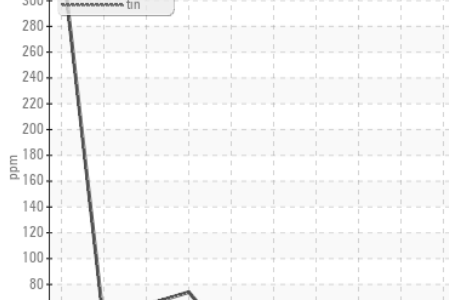
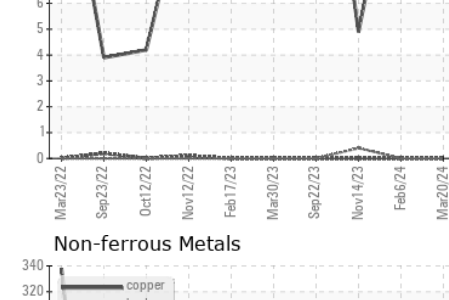
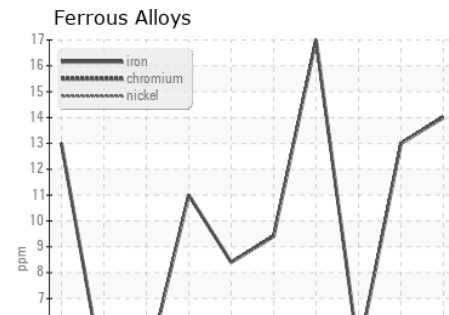
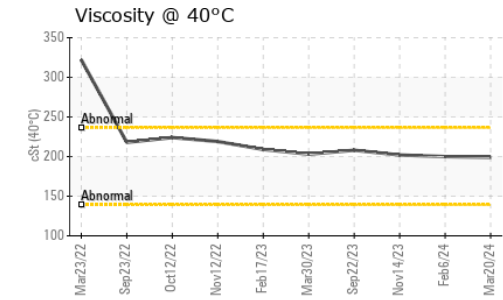
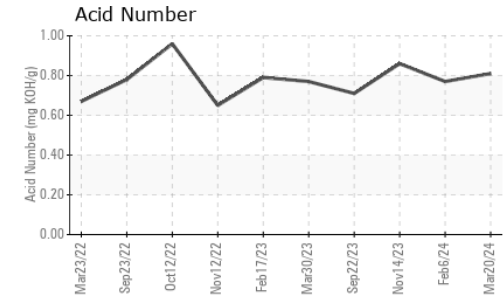
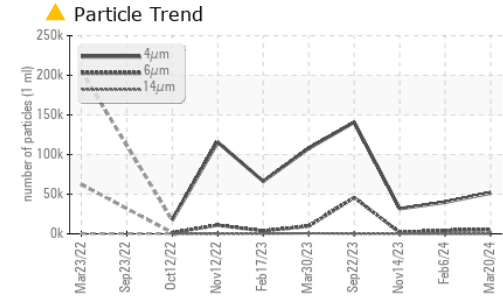
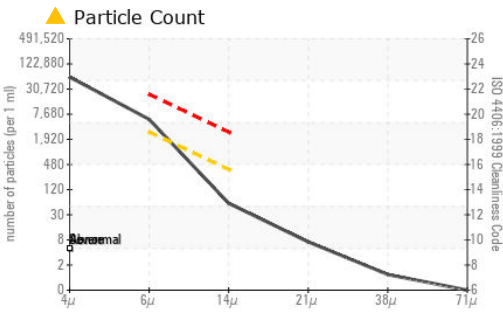
There is a high amount of silt (particulates < 14 microns in size) present in the fluid.

Silicon	ppm	ASTM D5185m	>125	<b>57</b>	50	7
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	1
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647		<b>51531</b>	39805	31696
Particles >6µm		ASTM D7647	>2500	<b>5042</b>	4329	1752
Particles >14µm		ASTM D7647	>320	<b>50</b>	75	45
Particles >21µm		ASTM D7647	>80	<b>6</b>	15	6
Particles >38µm		ASTM D7647	>20	<b>1</b>	3	0
Particles >71µm		ASTM D7647	>4	<b>0</b>	2	0
Oil Cleanliness		ISO 4406 (c)	>18/15	<b>20/13</b>	19/13	18/13
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	LIGHT	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		<b>18</b>	15	12
Boron	ppm	ASTM D5185m		<b>2</b>	3	0
Barium	ppm	ASTM D5185m		<b>0</b>	<1	0
Molybdenum	ppm	ASTM D5185m		<b>0</b>	<1	0
Manganese	ppm	ASTM D5185m		<b>1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>13</b>	12	8
Calcium	ppm	ASTM D5185m		<b>3352</b>	3051	3177
Phosphorus	ppm	ASTM D5185m		<b>1047</b>	904	1008
Zinc	ppm	ASTM D5185m		<b>838</b>	759	822
Sulfur	ppm	ASTM D5185m		<b>7262</b>	5488	6238
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.81</b>	0.77	0.86
Visc @ 40°C	cSt	ASTM D445		<b>199</b>	200	202



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KL0014198 **Received** : 18 Apr 2024  
**Lab Number** : 06153079 **Tested** : 19 Apr 2024  
**Unique Number** : 10983157 **Diagnosed** : 22 Apr 2024 - Angela Borella  
**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**  
 JUAREZ 348  
 HERMOSILLO,  
 MX 83140

Contact: EDUARDO GARCIA  
 egarcia.comsa@gmail.com

T: (526)622-1581 x:81

F: x: