



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area  
**GUAY SON [CONHER]**  
Machine Id  
**IBACO BM CHINO 1**  
Component  
**Transmission (Manual)**  
Fluid  
**RALYO SAE 50 (40 LTR)**

## RECOMMENDATION

We recommend you service the filters on this component if applicable. 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>KL0014201</b>	KL0014147	KL0013425
Sample Date		Client Info		<b>20 Mar 2024</b>	06 Feb 2024	14 Nov 2023
Machine Age	hrs	Client Info		<b>0</b>	0	0
Oil Age	hrs	Client Info		<b>101</b>	987	740
Filter Age	hrs	Client Info		<b>101</b>	987	740
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Sample Status				<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>200	<b>118</b>	34	4
Chromium	ppm	ASTM D5185m	>5	<b>&lt;1</b>	<1	0
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	0	<1
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>0</b>	0	<1
Lead	ppm	ASTM D5185m	>45	<b>&lt;1</b>	2	3
Copper	ppm	ASTM D5185m	>225	<b>2</b>	10	5
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

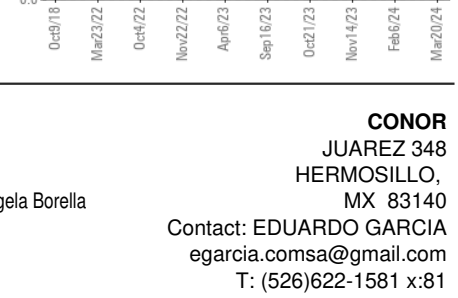
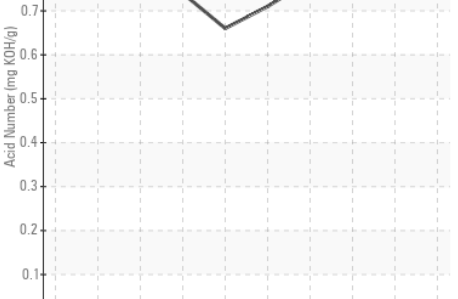
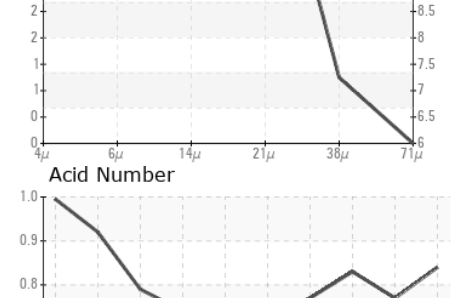
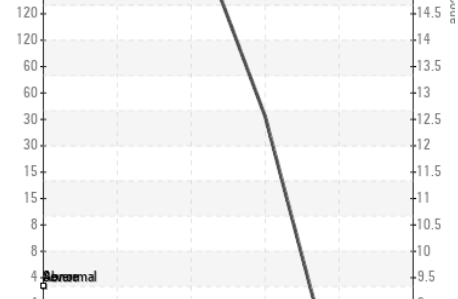
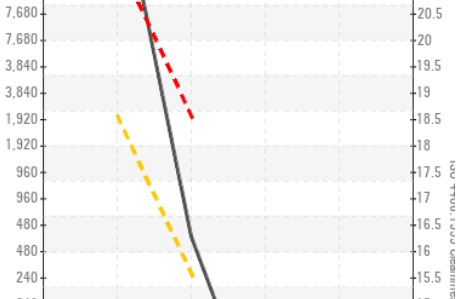
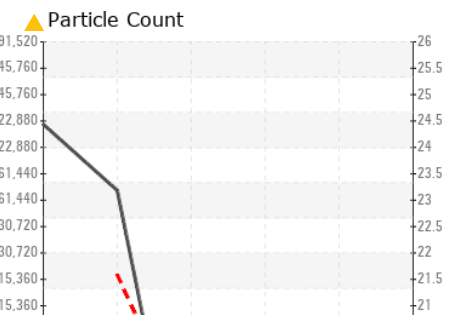
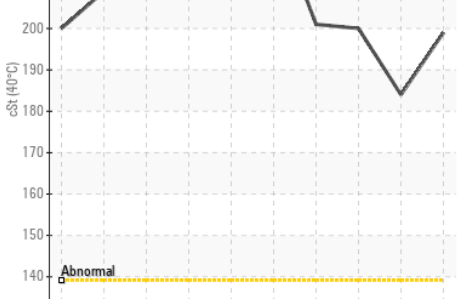
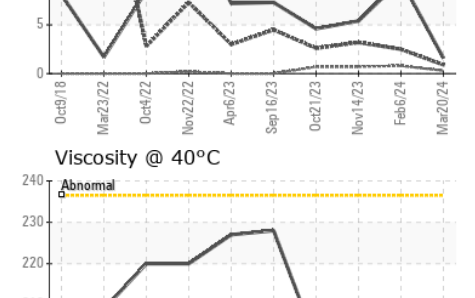
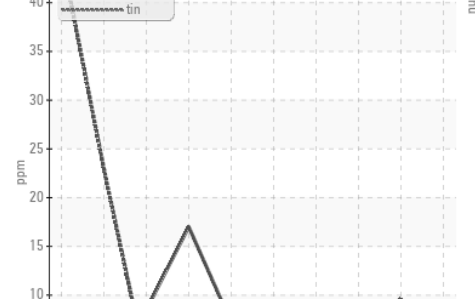
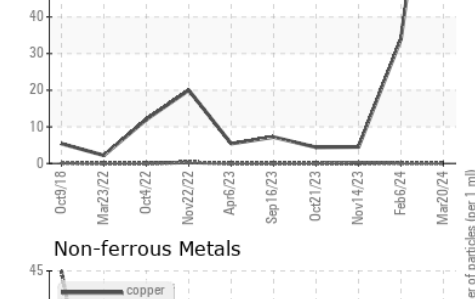
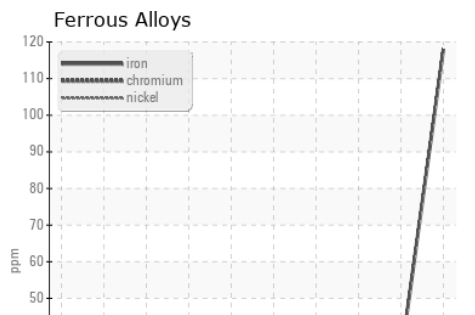
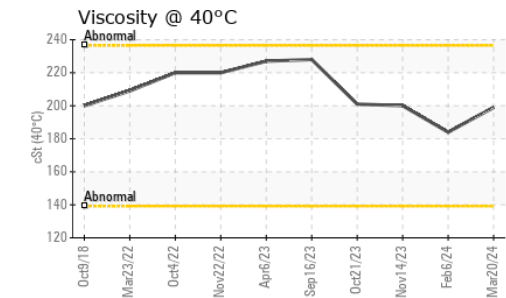
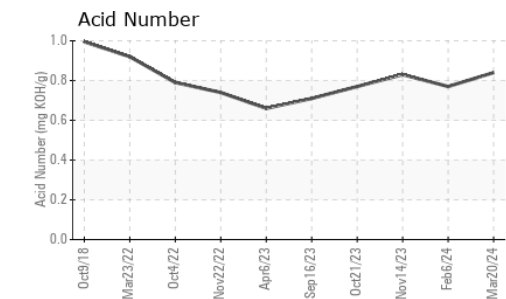
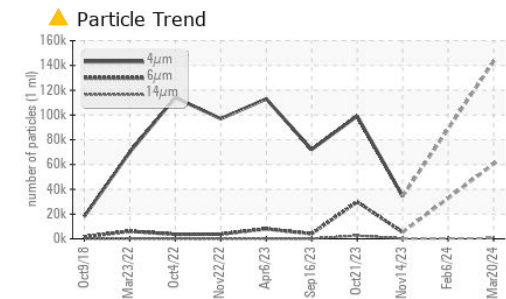
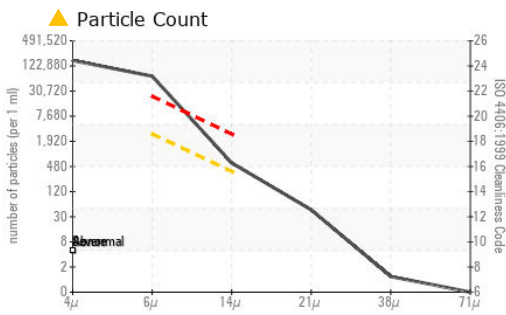
There is a high amount of particulates present in the fluid.

Silicon	ppm	ASTM D5185m	>125	<b>6</b>	9	7
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	0	<1
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647		<b>143168</b>	---	34387
Particles >6µm		ASTM D7647	>2500	<b>60305</b>	---	5288
Particles >14µm		ASTM D7647	>320	<b>514</b>	---	164
Particles >21µm		ASTM D7647	>80	<b>39</b>	---	33
Particles >38µm		ASTM D7647	>20	<b>1</b>	---	1
Particles >71µm		ASTM D7647	>4	<b>0</b>	---	0
Oil Cleanliness		ISO 4406 (c)	>18/15	<b>23/16</b>	---	20/15
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	▲ MODER	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>2</b>	1	<1
Boron	ppm	ASTM D5185m		<b>0</b>	4	1
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>0</b>	<1	0
Manganese	ppm	ASTM D5185m		<b>2</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>8</b>	5	10
Calcium	ppm	ASTM D5185m		<b>3171</b>	3141	3401
Phosphorus	ppm	ASTM D5185m		<b>977</b>	930	1025
Zinc	ppm	ASTM D5185m		<b>817</b>	778	887
Sulfur	ppm	ASTM D5185m		<b>7828</b>	6256	6878
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.84</b>	0.77	0.83
Visc @ 40°C	cSt	ASTM D445		<b>199</b>	184	200



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KL0014201 **Received** : 18 Apr 2024  
**Lab Number** : 06153073 **Tested** : 19 Apr 2024  
**Unique Number** : 10983151 **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)

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