



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area  
**GUAY SON [CONHER]**  
Machine Id  
**IBACO ARCENIO VICENTE MAIN**  
Component  
**Transmission (Manual)**  
Fluid  
**RALYO SAE 50 (60 LTR)**

## RECOMMENDATION

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>KL0014174</b>	KL0013485	KL0012849
Sample Date		Client Info		<b>20 Mar 2024</b>	20 Jan 2024	20 Sep 2023
Machine Age	hrs	Client Info		<b>0</b>	17357	16159
Oil Age	hrs	Client Info		<b>272</b>	1200	2
Filter Age	hrs	Client Info		<b>272</b>	1200	2
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>NORMAL</b>	ATTENTION	ABNORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>200	<b>94</b>	156	42
Chromium	ppm	ASTM D5185m	>5	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	0
Silver	ppm	ASTM D5185m	>7	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>&lt;1</b>	2	<1
Lead	ppm	ASTM D5185m	>45	<b>3</b>	7	4
Copper	ppm	ASTM D5185m	>225	<b>23</b>	32	10
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

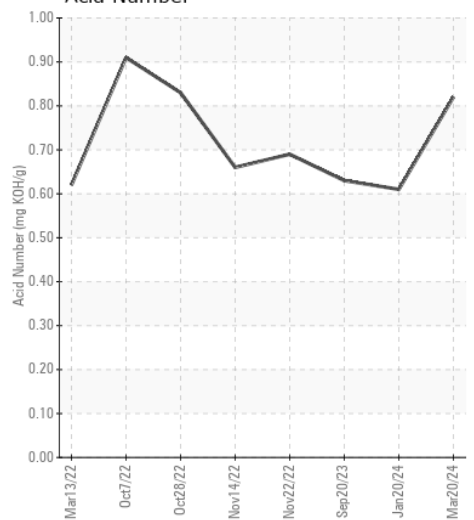
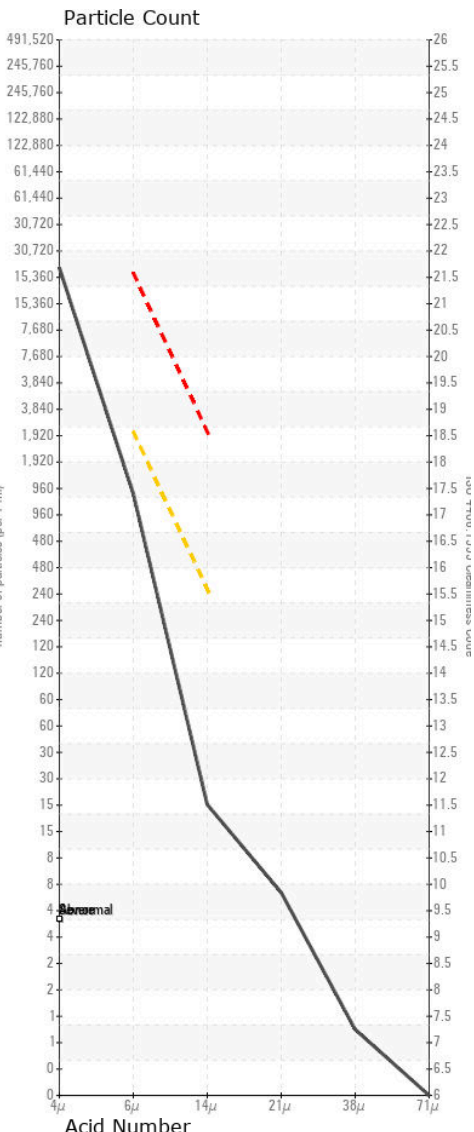
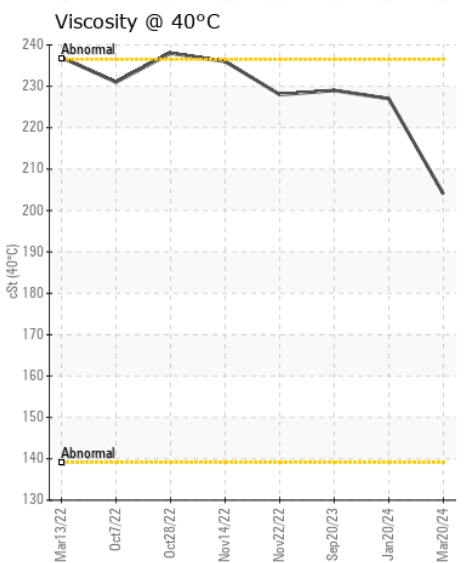
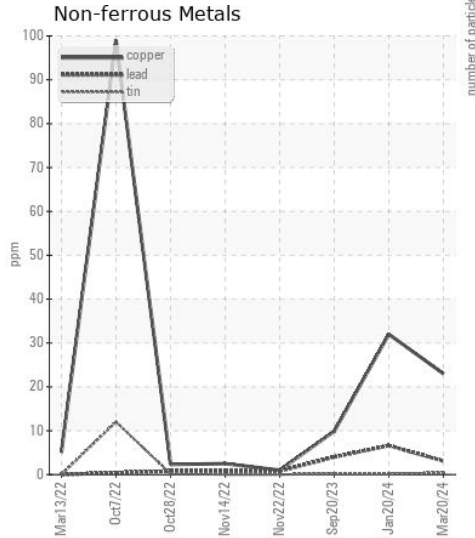
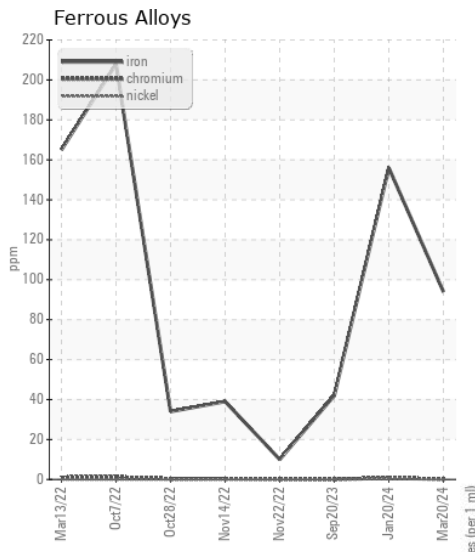
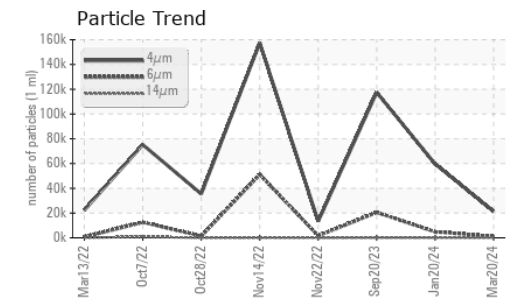
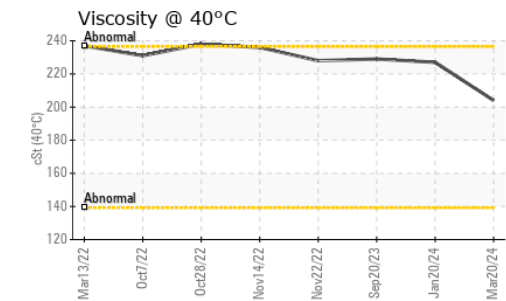
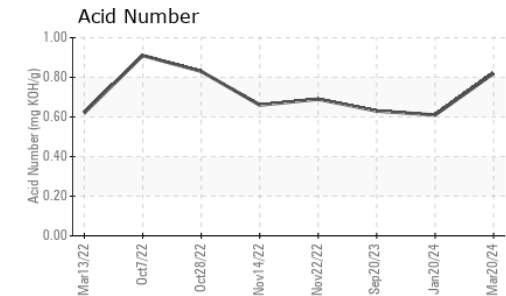
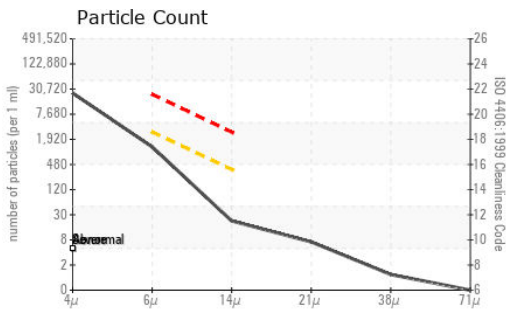
There is no indication of any contamination in the fluid. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>125	<b>7</b>	6	7
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	2	0
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647		<b>21380</b>	59599	117418
Particles >6µm		ASTM D7647	>2500	<b>1111</b>	4856	20534
Particles >14µm		ASTM D7647	>320	<b>19</b>	86	94
Particles >21µm		ASTM D7647	>80	<b>6</b>	15	13
Particles >38µm		ASTM D7647	>20	<b>1</b>	0	0
Particles >71µm		ASTM D7647	>4	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>18/15	<b>17/11</b>	19/14	22/14
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	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>	0	1
Boron	ppm	ASTM D5185m		<b>0</b>	0	0
Barium	ppm	ASTM D5185m		<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185m		<b>0</b>	<1	0
Manganese	ppm	ASTM D5185m		<b>2</b>	2	<1
Magnesium	ppm	ASTM D5185m		<b>8</b>	6	11
Calcium	ppm	ASTM D5185m		<b>3377</b>	3324	3373
Phosphorus	ppm	ASTM D5185m		<b>1000</b>	915	973
Zinc	ppm	ASTM D5185m		<b>839</b>	814	826
Sulfur	ppm	ASTM D5185m		<b>6838</b>	6237	5545
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.82</b>	0.61	0.63
Visc @ 40°C	cSt	ASTM D445		<b>204</b>	227	229



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KL0014174 **Received** : 18 Apr 2024  
**Lab Number** : 06153077 **Tested** : 19 Apr 2024  
**Unique Number** : 10983155 **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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