



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area  
**GUAY SON [CONHER]**  
Machine Id  
**IBACO BM ISMAR II**  
Component  
**Transmission (Manual)**  
Fluid  
**RALYO SAE 50 (40 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>KL0014207</b>	KL0013401	KL0012852
Sample Date		Client Info		<b>20 Mar 2024</b>	14 Nov 2023	20 Sep 2023
Machine Age	hrs	Client Info		<b>15348</b>	13688	12985
Oil Age	hrs	Client Info		<b>2060</b>	400	10
Filter Age	hrs	Client Info		<b>2060</b>	400	10
Oil Changed		Client Info		<b>Changed</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>Changed</b>	Not Changd	Not Changd
Sample Status				<b>NORMAL</b>	NORMAL	ABNORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>200	<b>6</b>	10	5
Chromium	ppm	ASTM D5185m	>5	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	<1	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>0</b>	<1	<1
Lead	ppm	ASTM D5185m	>45	<b>&lt;1</b>	<1	0
Copper	ppm	ASTM D5185m	>225	<b>7</b>	6	3
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

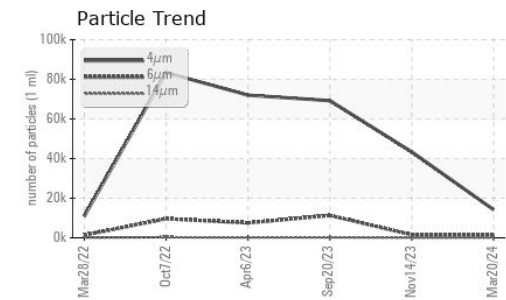
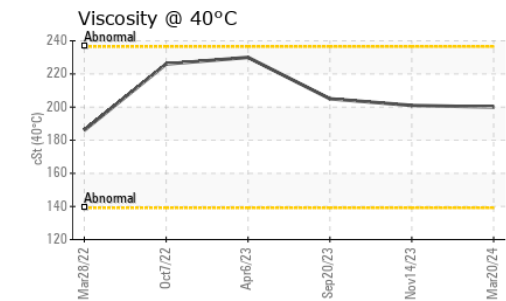
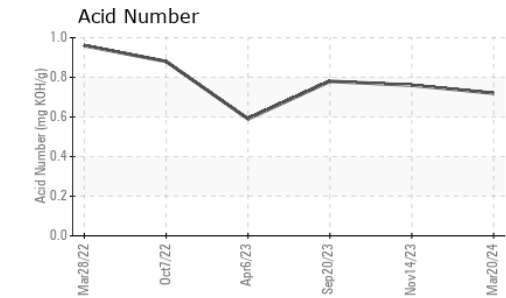
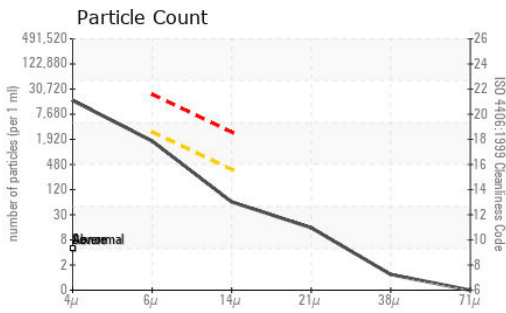
There is no indication of any contamination in the fluid. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>125	<b>10</b>	12	19
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	<1	0
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647		<b>14162</b>	43395	69242
Particles >6µm		ASTM D7647	>2500	<b>1530</b>	1515	▲ 11300
Particles >14µm		ASTM D7647	>320	<b>54</b>	42	187
Particles >21µm		ASTM D7647	>80	<b>13</b>	10	32
Particles >38µm		ASTM D7647	>20	<b>1</b>	1	2
Particles >71µm		ASTM D7647	>4	<b>0</b>	0	1
Oil Cleanliness		ISO 4406 (c)	>18/15	<b>18/13</b>	18/13	▲ 21/15
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>3</b>	<1	<1
Boron	ppm	ASTM D5185m		<b>&lt;1</b>	2	2
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>0</b>	0	0
Manganese	ppm	ASTM D5185m		<b>1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>7</b>	10	15
Calcium	ppm	ASTM D5185m		<b>3439</b>	3387	3528
Phosphorus	ppm	ASTM D5185m		<b>1019</b>	978	991
Zinc	ppm	ASTM D5185m		<b>835</b>	851	876
Sulfur	ppm	ASTM D5185m		<b>7971</b>	6638	6710
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.72</b>	0.76	0.78
Visc @ 40°C	cSt	ASTM D445		<b>200</b>	201	205



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KL0014207  
**Lab Number** : 06153089  
**Unique Number** : 10983167  
**Test Package** : MOB 2 ( Additional Tests: PrtCount )

**Received** : 18 Apr 2024  
**Tested** : 19 Apr 2024  
**Diagnosed** : 22 Apr 2024 - Angela Borella

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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