



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL

Area  
**IBACO [CONHER]**  
Machine Id  
**BM ISMAR 8 MAIN ENGINE**  
Component  
**Transmission (Manual)**  
Fluid  
**RALYO SAE 50 (60 LTR)**

## RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

## WEAR

All component wear rates are normal.

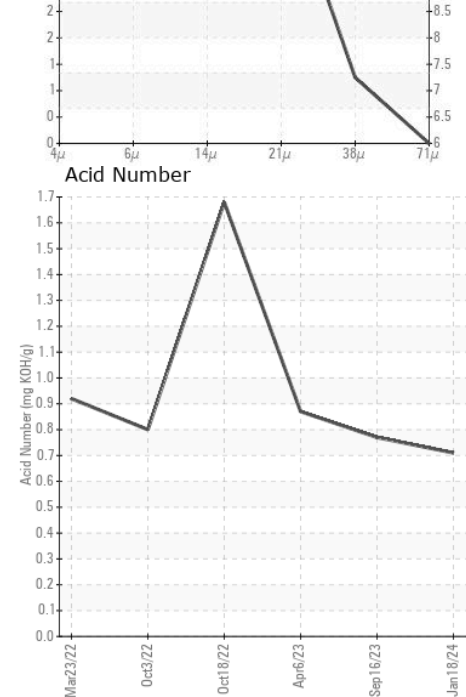
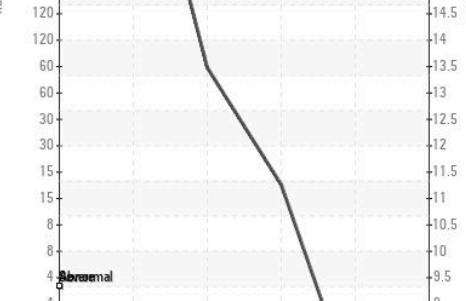
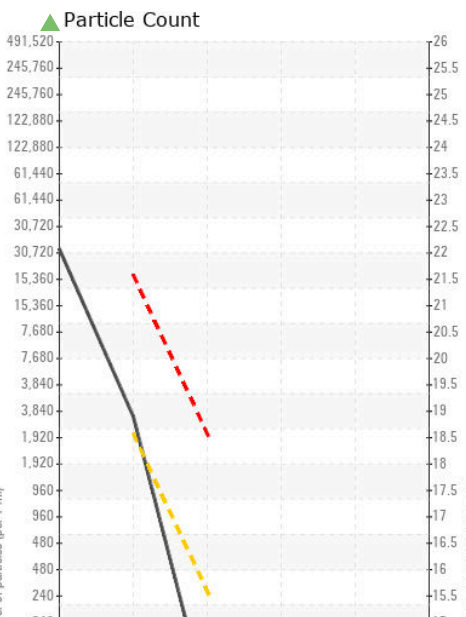
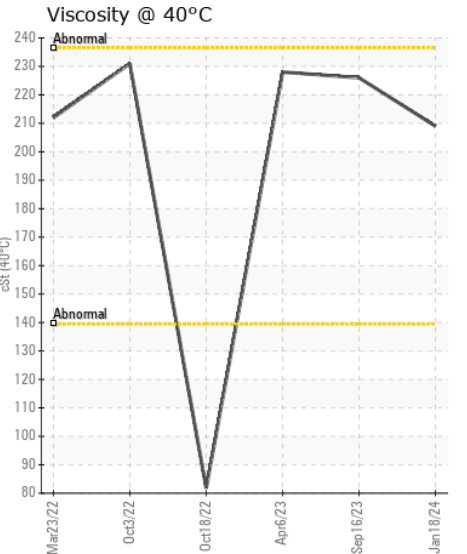
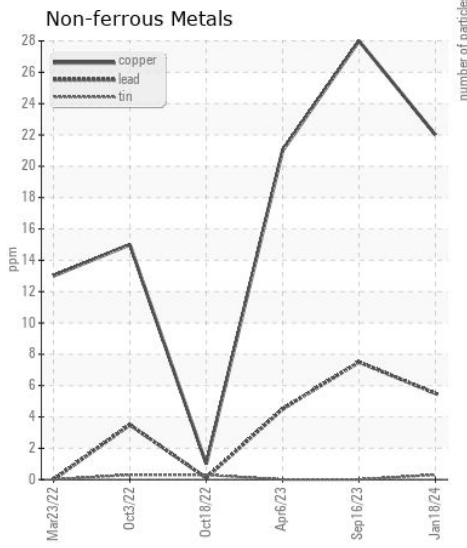
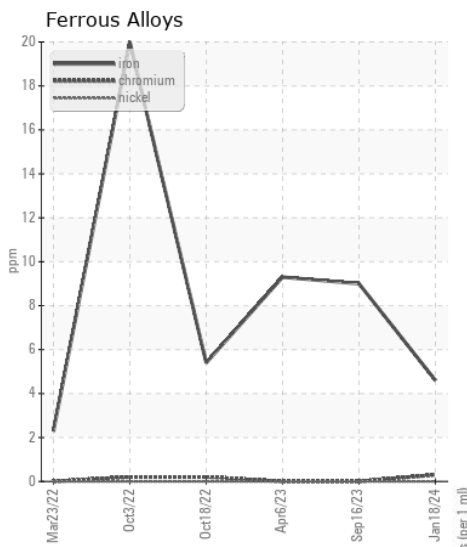
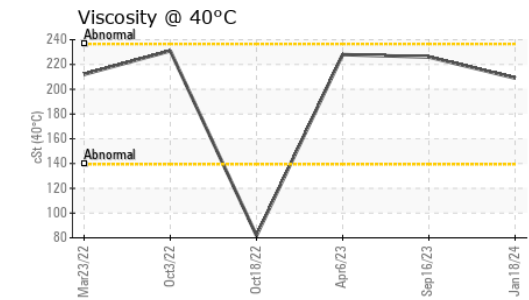
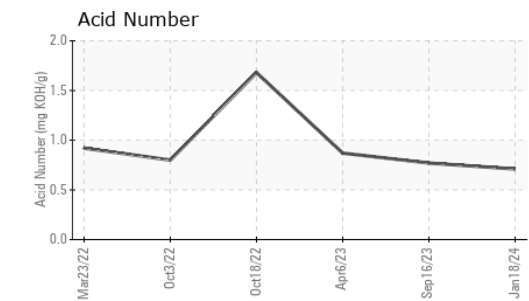
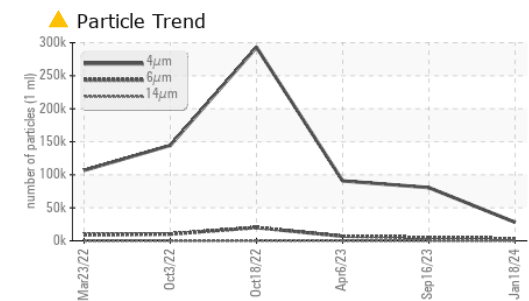
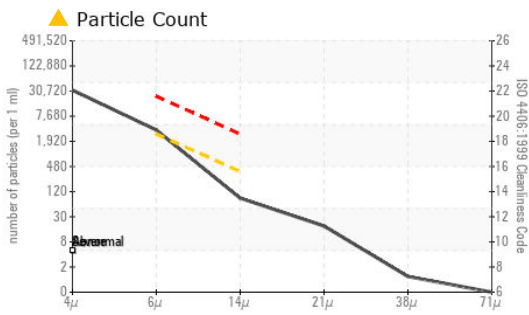
## CONTAMINATION

There is a moderate 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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>KL0013482</b>	KL0012809	KL0011417
Sample Date		Client Info		<b>18 Jan 2024</b>	16 Sep 2023	06 Apr 2023
Machine Age	hrs	Client Info		<b>13767</b>	12438	12436
Oil Age	hrs	Client Info		<b>1329</b>	494	492
Filter Age	hrs	Client Info		<b>1329</b>	494	492
Oil Changed		Client Info		<b>Not Chngd</b>	Not Chngd	Not Chngd
Filter Changed		Client Info		<b>Not Chngd</b>	Not Chngd	Not Chngd
Sample Status				<b>ATTENTION</b>	ATTENTION	ABNORMAL
Iron	ppm	ASTM D5185m	>200	<b>5</b>	9	9
Chromium	ppm	ASTM D5185m	>5	<b>&lt;1</b>	0	0
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	0	0
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>2</b>	<1	<1
Lead	ppm	ASTM D5185m	>45	<b>6</b>	8	4
Copper	ppm	ASTM D5185m	>225	<b>22</b>	28	21
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Silicon	ppm	ASTM D5185m	>125	<b>6</b>	9	12
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	<1	0
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647		<b>28083</b>	80556	90761
Particles >6µm		ASTM D7647	>2500	<b>▲ 3133</b>	▲ 4707	▲ 6961
Particles >14µm		ASTM D7647	>320	<b>74</b>	98	43
Particles >21µm		ASTM D7647	>80	<b>16</b>	24	7
Particles >38µm		ASTM D7647	>20	<b>1</b>	2	1
Particles >71µm		ASTM D7647	>4	<b>0</b>	1	1
Oil Cleanliness		ISO 4406 (c)	>18/15	<b>▲ 19/13</b>	▲ 19/14	▲ 20/13
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
Sodium	ppm	ASTM D5185m		<b>0</b>	1	<1
Boron	ppm	ASTM D5185m		<b>0</b>	0	0
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>2</b>	0	<1
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>11</b>	10	10
Calcium	ppm	ASTM D5185m		<b>3333</b>	3437	3426
Phosphorus	ppm	ASTM D5185m		<b>886</b>	906	904
Zinc	ppm	ASTM D5185m		<b>824</b>	815	815
Sulfur	ppm	ASTM D5185m		<b>6740</b>	6329	6228
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.71</b>	0.77	0.87
Visc @ 40°C	cSt	ASTM D445		<b>209</b>	226	228



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KL0013482 **Received** : 30 Jan 2024  
**Lab Number** : 06074663 **Diagnosed** : 01 Feb 2024  
**Unique Number** : 10856754 **Diagnostician** : 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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