



# OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>ABNORMAL</b>
FLUID CONDITION	<b>ABNORMAL</b>

Area  
**GUAY SON [CONHER]**  
Machine Id  
**IBACO BM COZAR VI AUX-1**  
Component  
**Bottom Diesel Engine**  
Fluid  
**XTRA REV 15W40 (--- LTR)**

## RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>KL0013492</b>	KL0013331	KL0012821
Sample Date		Client Info		<b>24 Jan 2024</b>	25 Oct 2023	16 Sep 2023
Machine Age	hrs	Client Info		<b>0</b>	13267	12447
Oil Age	hrs	Client Info		<b>100</b>	96	50
Filter Age	hrs	Client Info		<b>100</b>	96	50
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	ABNORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>35</b>	7	35
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	8
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	<1
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>4</b>	<1	5
Lead	ppm	ASTM D5185m	>40	<b>0</b>	<1	5
Copper	ppm	ASTM D5185m	>330	<b>2</b>	1	13
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	0	4
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

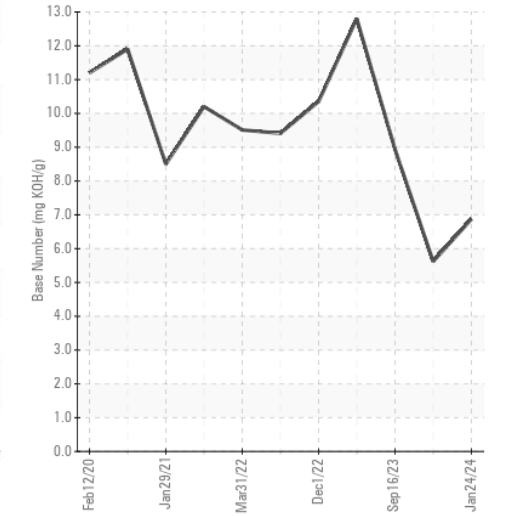
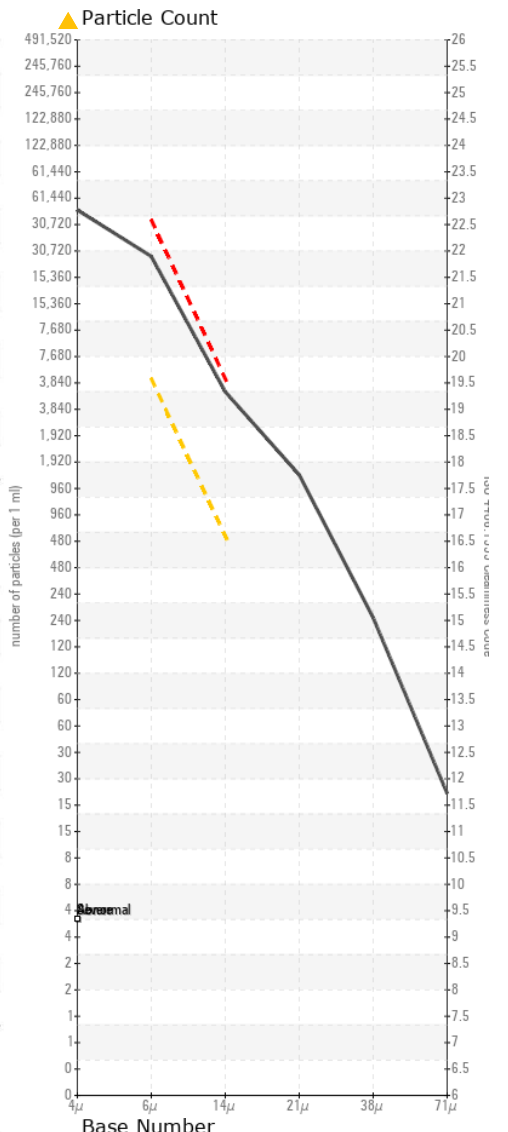
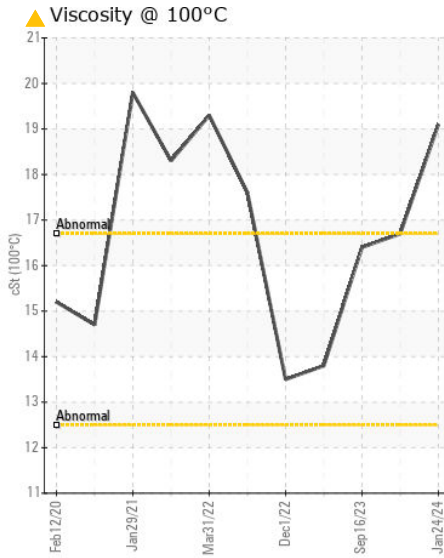
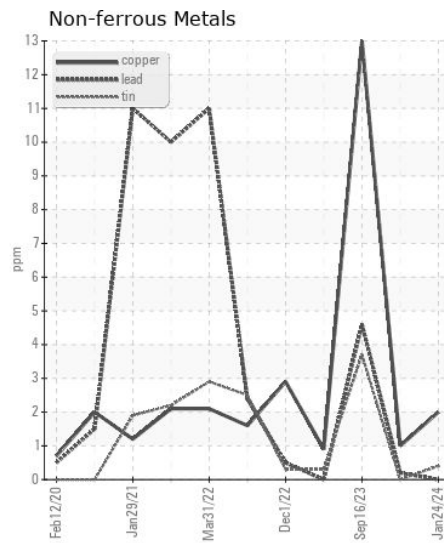
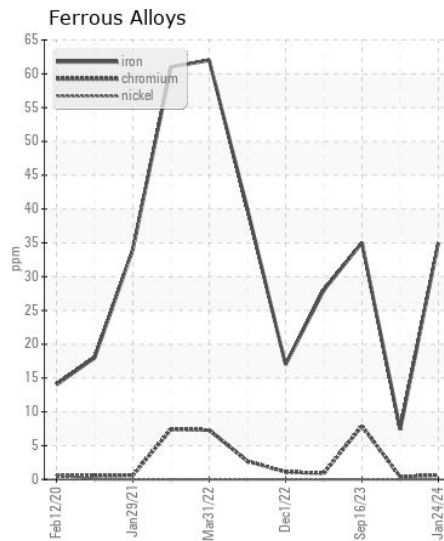
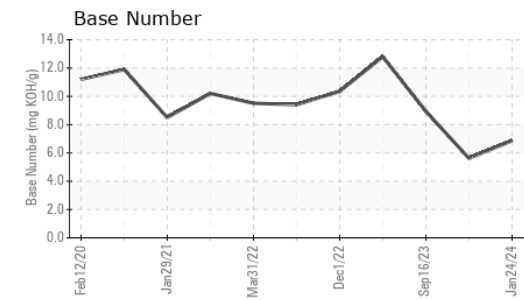
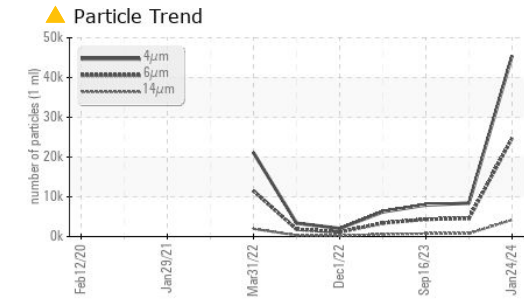
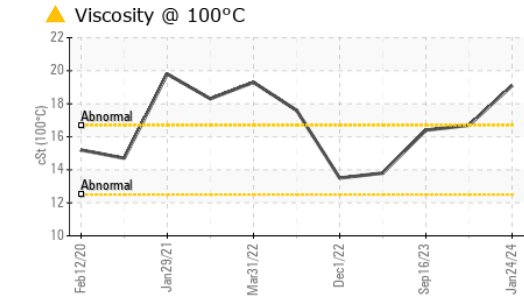
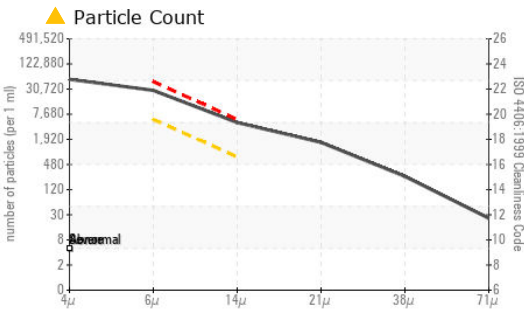
There is a high amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>8</b>	5	▲ 30
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	<1	2
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>0.2</b>	0.4	0
Nitration	Abs/cm	*ASTM D7624	>20	<b>10.7</b>	8.4	6.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>19.0</b>	19.3	18.7
Particles >4µm		ASTM D7647		<b>45491</b>	8421	7952
Particles >6µm		ASTM D7647	>5000	▲ <b>24781</b>	4588	4332
Particles >14µm		ASTM D7647	>640	▲ <b>4217</b>	▲ 781	▲ 737
Particles >21µm		ASTM D7647	>160	▲ <b>1421</b>	▲ 263	▲ 248
Particles >38µm		ASTM D7647	>40	▲ <b>219</b>	▲ 41	38
Particles >71µm		ASTM D7647	>10	▲ <b>22</b>	4	4
Oil Cleanliness		ISO 4406 (c)	>19/16	▲ <b>22/19</b>	▲ 19/17	▲ 19/17
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	>0.2	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

The oil viscosity is higher than normal. The BN result indicates that there is suitable alkalinity remaining in the oil.

Sodium	ppm	ASTM D5185m		<b>0</b>	<1	7
Boron	ppm	ASTM D5185m		<b>15</b>	12	0
Barium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>13</b>	19	0
Manganese	ppm	ASTM D5185m		<b>0</b>	0	1
Magnesium	ppm	ASTM D5185m		<b>71</b>	114	11
Calcium	ppm	ASTM D5185m		<b>2174</b>	1586	3363
Phosphorus	ppm	ASTM D5185m		<b>739</b>	574	853
Zinc	ppm	ASTM D5185m		<b>854</b>	688	945
Sulfur	ppm	ASTM D5185m		<b>4023</b>	3847	6813
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>18.2</b>	16.0	9.0
Base Number (BN)	mg KOH/g	ASTM D2896		<b>6.87</b>	5.62	8.94
Visc @ 100°C	cSt	ASTM D445		▲ <b>19.1</b>	16.7	16.4



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KL0013492 **Received** : 30 Jan 2024  
**Lab Number** : 06075000 **Diagnosed** : 02 Feb 2024  
**Unique Number** : 10857091 **Diagnostician** : Jonathan Hester  
**Test Package** : MOB 2 ( Additional Tests: PrtCount )

**CONOR**  
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Certificate L2367  
 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)