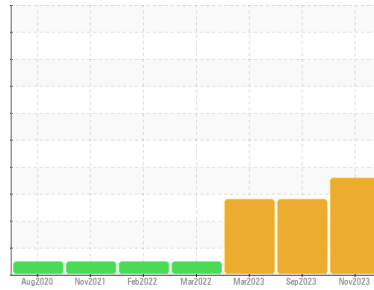




# OIL ANALYSIS REPORT

Sample Rating Trend



FUEL



Area  
**GUAY SON [CONHER]**  
 Machine Id  
**IBACO BM DAGIO I**  
 Component  
**Auxiliary Power Unit Diesel Engine**  
 Fluid  
**XTRA REV 15W40 (8 LTR)**

## DIAGNOSIS

### Recommendation

We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

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

### Fluid Condition

Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>KL0013349</b>	KL0012863	KL0011409
Sample Date	Client Info		<b>01 Nov 2023</b>	21 Sep 2023	30 Mar 2023
Machine Age	hrs	Client Info	<b>0</b>	15131	15107
Oil Age	hrs	Client Info	<b>240</b>	24	168
Oil Changed	Client Info		<b>Changed</b>	Changed	Not Changed
Sample Status			<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Glycol	WC Method		<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	<b>40</b>	9	18
Chromium	ppm	ASTM D5185m >20	<b>&lt;1</b>	<1	0
Nickel	ppm	ASTM D5185m >4	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185m >3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >20	<b>5</b>	3	<1
Lead	ppm	ASTM D5185m >40	<b>1</b>	0	0
Copper	ppm	ASTM D5185m >330	<b>29</b>	<1	0
Tin	ppm	ASTM D5185m >15	<b>1</b>	<1	0
Vanadium	ppm	ASTM D5185m	<b>0</b>	<1	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>52</b>	6	262
Barium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>&lt;1</b>	4	103
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	<b>13</b>	22	462
Calcium	ppm	ASTM D5185m	<b>3454</b>	2476	1518
Phosphorus	ppm	ASTM D5185m	<b>1066</b>	1070	810
Zinc	ppm	ASTM D5185m	<b>1366</b>	1311	1045
Sulfur	ppm	ASTM D5185m	<b>3612</b>	3684	3622

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>18</b>	8	8
Sodium	ppm	ASTM D5185m	<b>10</b>	5	2
Potassium	ppm	ASTM D5185m >20	<b>3</b>	1	2
Fuel	%	ASTM D3524 >5	<b>▲ 4.9</b>	▲ 2.8	▲ 5.9

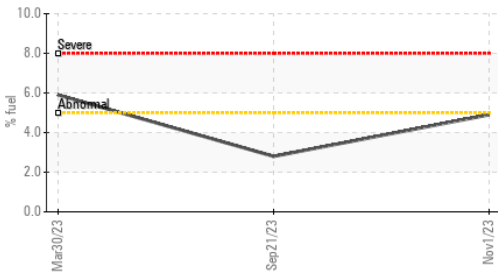
## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>0.1</b>	0	0.2
Nitration	Abs/cm	*ASTM D7624 >20	<b>7.2</b>	4.5	8.2
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>15.7</b>	12.6	21.0

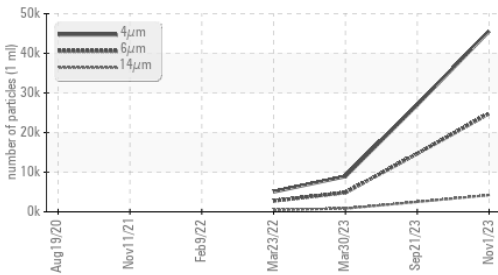


# OIL ANALYSIS REPORT

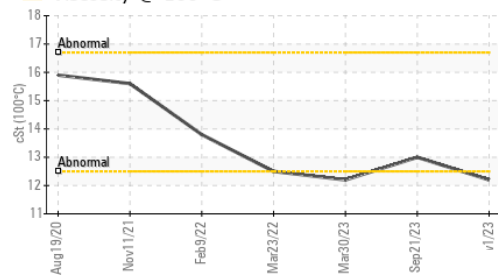
▲ Fuel Dilution



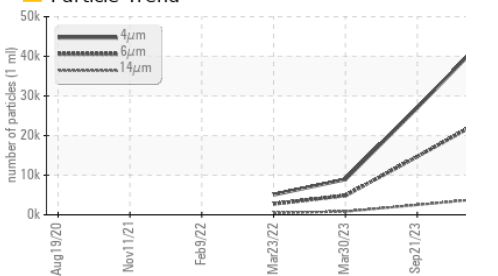
▲ Particle Trend



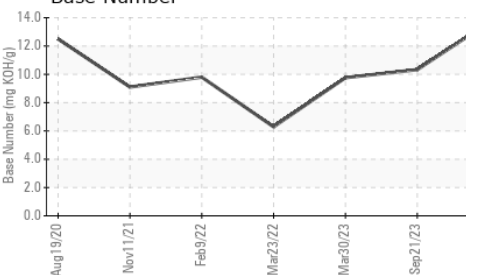
▲ Viscosity @ 100°C



▲ Particle Trend



Base Number



FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		<b>45569</b>	26978	8926
Particles >6µm	ASTM D7647	>5000	▲ <b>24824</b>	▲ 14696	4862
Particles >14µm	ASTM D7647	>640	▲ <b>4225</b>	▲ 2501	▲ 828
Particles >21µm	ASTM D7647	>160	▲ <b>1423</b>	▲ 842	▲ 279
Particles >38µm	ASTM D7647	>40	▲ <b>220</b>	▲ 130	▲ 43
Particles >71µm	ASTM D7647	>10	▲ <b>22</b>	▲ 13	▲ 4
Oil Cleanliness	ISO 4406 (c)	>19/16	▲ <b>22/19</b>	▲ 21/19	▲ 19/17

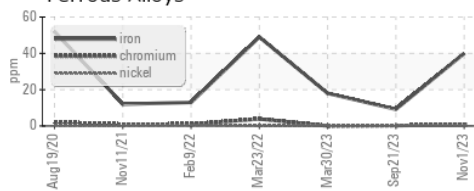
FLUID DEGRADATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414	>25	<b>10.0</b>	6.6	18.5
Base Number (BN)	mg KOH/g ASTM D2896		<b>13.68</b>	10.33	9.76

VISUAL	method	limit/base	current	history1	history2
White Metal	scalar *Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar *Visual	NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar *Visual	NONE	<b>NONE</b>	NONE	NONE
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
Free Water	scalar *Visual		<b>NEG</b>	NEG	NEG

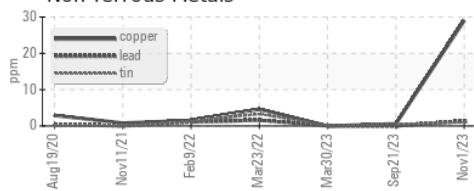
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt ASTM D445		▲ <b>12.2</b>	13.0	▲ 12.2

## GRAPHS

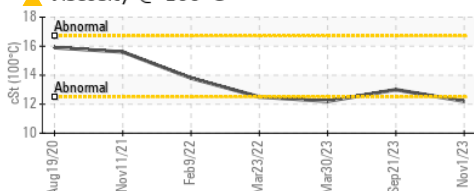
▲ Ferrous Alloys



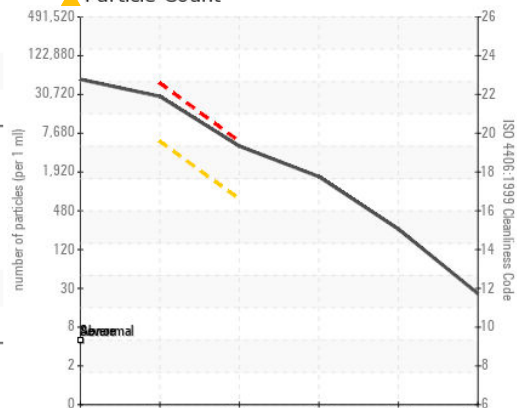
▲ Non-ferrous Metals



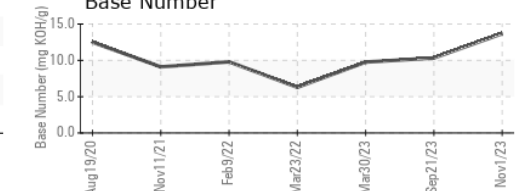
▲ Viscosity @ 100°C



▲ Particle Count



Base Number



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KL0013349 **Received** : 07 Nov 2023  
**Lab Number** : 06001126 **Diagnosed** : 09 Nov 2023  
**Unique Number** : 10729486 **Diagnostician** : Jonathan Hester

**Test Package** : MOB 2 ( Additional Tests: FuelDilution, PercentFuel, 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)

**CONOR**  
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 MX 83140

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