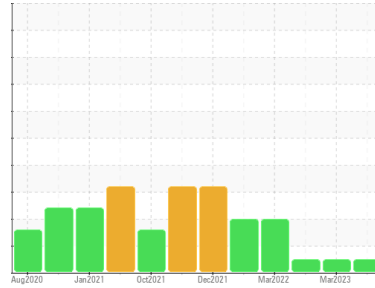




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**GUAY SON [CONHER]**  
 Machine Id  
**MADE IN MEXICO IBACO BM NAUTICO 4**  
 Component  
**Auxiliary Auxiliary Engine**  
 Fluid  
**XTRA REV 15W40 (8 LTR)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor. ( Customer Sample Comment: Xtra Rev 15W40 )

### Wear

All component wear rates are normal.

### Contamination

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

### Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>KL0012836</b>	KL0011368	KL0011205
Sample Date	Client Info		<b>20 Sep 2023</b>	15 Mar 2023	24 Oct 2022
Machine Age	hrs	Client Info	<b>2891</b>	2778	0
Oil Age	hrs	Client Info	<b>24</b>	156	0
Oil Changed	Client Info		<b>Changed</b>	Not Changd	N/A
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>4.0	<b>&lt;1.0</b>	<1.0	<1.0
Glycol	WC Method		<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	<b>13</b>	4	6
Chromium	ppm	ASTM D5185m >20	<b>&lt;1</b>	<1	2
Nickel	ppm	ASTM D5185m >2	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185m >2	<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m >2	<b>0</b>	0	1
Aluminum	ppm	ASTM D5185m >20	<b>4</b>	1	2
Lead	ppm	ASTM D5185m >40	<b>0</b>	<1	1
Copper	ppm	ASTM D5185m >330	<b>2</b>	<1	4
Tin	ppm	ASTM D5185m >15	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	<1
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	<1

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>0</b>	0	0
Barium	ppm	ASTM D5185m	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>&lt;1</b>	<1	4
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	<1	2
Magnesium	ppm	ASTM D5185m	<b>18</b>	15	19
Calcium	ppm	ASTM D5185m	<b>3889</b>	3734	3870
Phosphorus	ppm	ASTM D5185m	<b>980</b>	909	941
Zinc	ppm	ASTM D5185m	<b>1225</b>	1087	1171
Sulfur	ppm	ASTM D5185m	<b>5070</b>	5694	4581

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>5</b>	4	6
Sodium	ppm	ASTM D5185m	<b>2</b>	1	4
Potassium	ppm	ASTM D5185m >20	<b>0</b>	<1	8

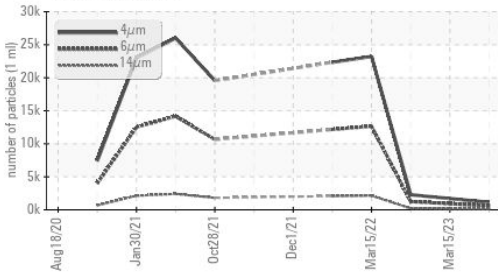
## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	<b>0.1</b>	0.1	0.1
Nitration	Abs/cm	*ASTM D7624 >20	<b>7.8</b>	6.0	6.6
Sulfation	Abs./1mm	*ASTM D7415 >30	<b>18.5</b>	17.1	18.1

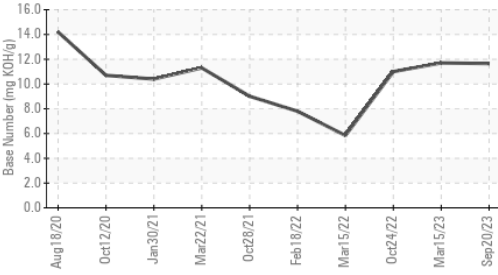


# OIL ANALYSIS REPORT

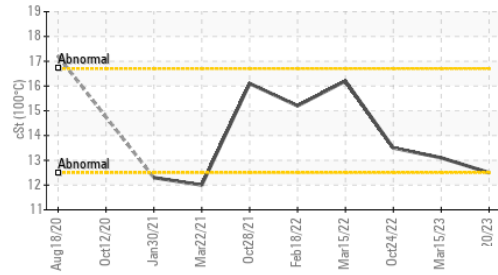
Particle Trend



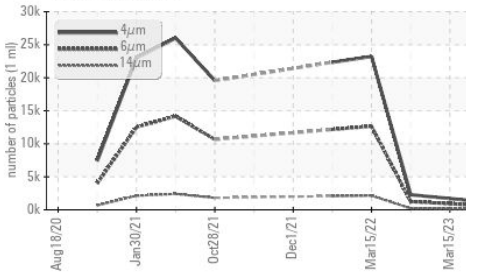
Base Number



Viscosity @ 100°C



Particle Trend



**FLUID CLEANLINESS**    method    limit/base    current    history1    history2

Particles >4µm	ASTM D7647		<b>1140</b>	1705	2288
Particles >6µm	ASTM D7647	>5000	<b>621</b>	929	1246
Particles >14µm	ASTM D7647	>640	<b>106</b>	158	212
Particles >21µm	ASTM D7647	>160	<b>36</b>	53	71
Particles >38µm	ASTM D7647	>40	<b>5</b>	8	11
Particles >71µm	ASTM D7647	>10	<b>1</b>	1	1
Oil Cleanliness	ISO 4406 (c)	>19/16	<b>16/14</b>	17/14	17/15

**FLUID DEGRADATION**    method    limit/base    current    history1    history2

Oxidation	Abs./1mm	*ASTM D7414	>25	<b>13.4</b>	10.7	11.1
Base Number (BN)	mg KOH/g	ASTM D2896		<b>11.65</b>	11.70	11.0

**VISUAL**    method    limit/base    current    history1    history2

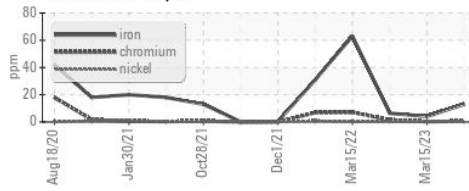
White Metal	scalar	*Visual	NONE	<b>NONE</b>	VLITE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	NEG	NEG
Free Water	scalar	*Visual		<b>NEG</b>	NEG	NEG

**FLUID PROPERTIES**    method    limit/base    current    history1    history2

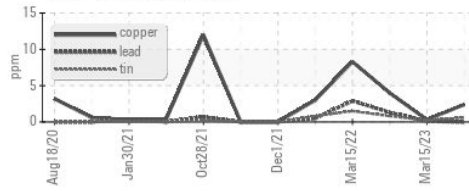
Visc @ 100°C	cSt	ASTM D445		<b>12.5</b>	13.1	13.5
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**GRAPHS**

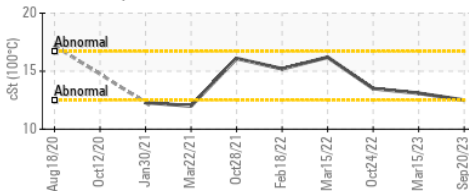
Ferrous Alloys



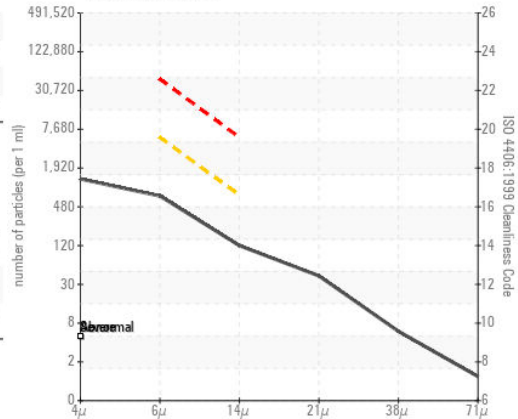
Non-ferrous Metals



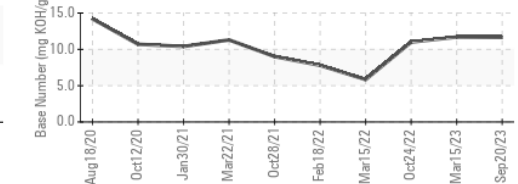
Viscosity @ 100°C



Particle Count



Base Number



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KL0012836    **Received** : 29 Sep 2023  
**Lab Number** : 05964768    **Diagnosed** : 02 Oct 2023  
**Unique Number** : 10671319    **Diagnostician** : Don Baldrige  
**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)

**CONOR**  
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 MX 83140

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