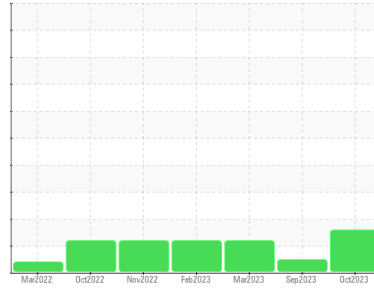




# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area  
**GUAY SON [CONHER]**  
 Machine Id  
**BM NAUTICO I IBACO BM NAUTICO I**  
 Component  
**Transmission (Manual)**  
 Fluid  
**RALYO SAE 50 (60 LTR)**

## DIAGNOSIS

### Recommendation

We recommend you service the filters on this component if applicable. 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 fluid.

### Fluid Condition

The AN level is acceptable for this fluid. The condition of the fluid is suitable for further service.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>KL0013329</b>	KL0012879	KL0012325
Sample Date	Client Info	<b>25 Oct 2023</b>	20 Sep 2023	30 Mar 2023
Machine Age	hrs	<b>12241</b>	11690	11680
Oil Age	hrs	<b>561</b>	10	480
Oil Changed	Client Info	<b>Not Chngd</b>	Not Chngd	Not Chngd
Sample Status		<b>ABNORMAL</b>	NORMAL	ABNORMAL

## WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >200	<b>0</b>	3	3
Chromium	ppm	ASTM D5185m >5	<b>0</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>&lt;1</b>	2	<1
Lead	ppm	ASTM D5185m >45	<b>11</b>	39	39
Copper	ppm	ASTM D5185m >225	<b>13</b>	21	18
Tin	ppm	ASTM D5185m >10	<b>&lt;1</b>	<1	0
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0

## ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	<b>0</b>	0	0
Barium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>&lt;1</b>	0	<1
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	<b>8</b>	9	6
Calcium	ppm	ASTM D5185m	<b>3091</b>	3295	3384
Phosphorus	ppm	ASTM D5185m	<b>892</b>	1074	1059
Zinc	ppm	ASTM D5185m	<b>791</b>	1058	1084
Sulfur	ppm	ASTM D5185m	<b>6087</b>	5001	5510

## CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >125	<b>7</b>	12	8
Sodium	ppm	ASTM D5185m	<b>2</b>	2	<1
Potassium	ppm	ASTM D5185m >20	<b>3</b>	0	0

## FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	<b>20582</b>	54008	62737
Particles >6µm	ASTM D7647 >2500	<b>▲ 6216</b>	2193	▲ 5642
Particles >14µm	ASTM D7647 >320	<b>▲ 530</b>	70	▲ 420
Particles >21µm	ASTM D7647 >80	<b>▲ 119</b>	13	70
Particles >38µm	ASTM D7647 >20	<b>3</b>	0	2
Particles >71µm	ASTM D7647 >4	<b>1</b>	0	0
Oil Cleanliness	ISO 4406 (c) >18/15	<b>▲ 20/16</b>	18/13	▲ 20/16

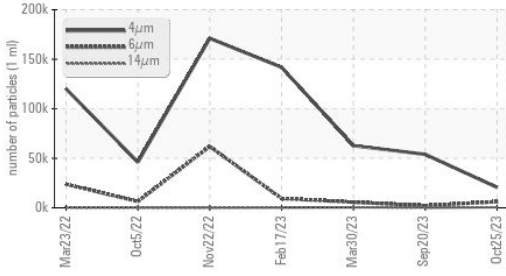
## FLUID DEGRADATION

method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>0.89</b>	0.91	0.975

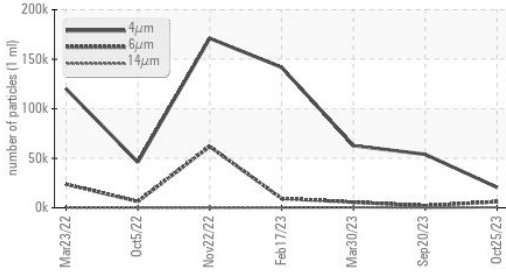


# OIL ANALYSIS REPORT

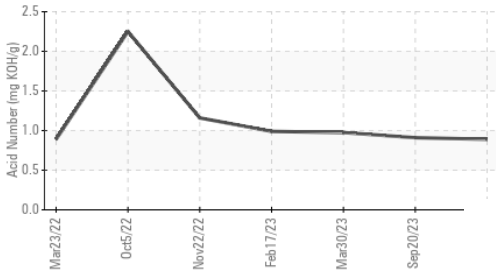
## ▲ Particle Trend



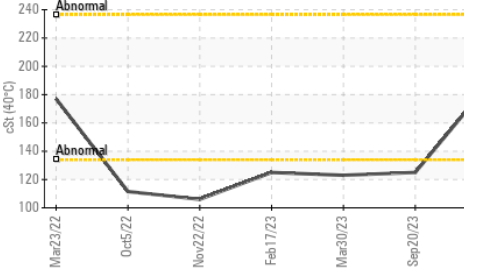
## ▲ Particle Trend



## Acid Number



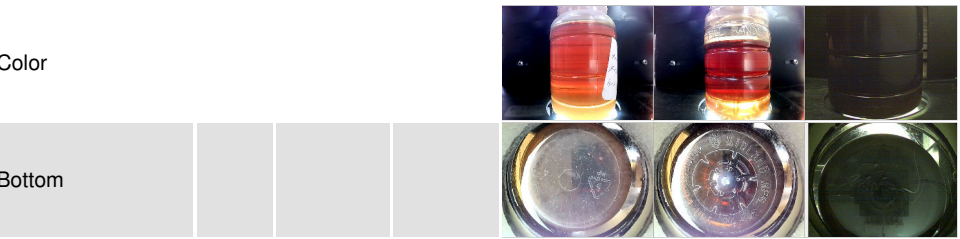
## Viscosity @ 40°C



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

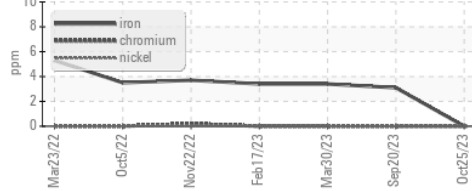
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	186	125	123

SAMPLE IMAGES	method	limit/base	current	history1	history2
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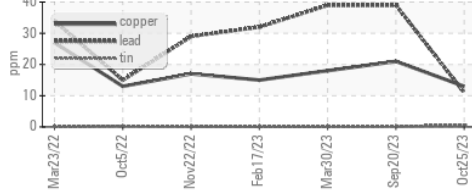


## GRAPHS

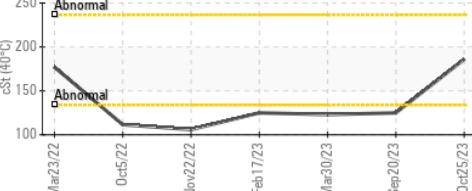
### Ferrous Alloys



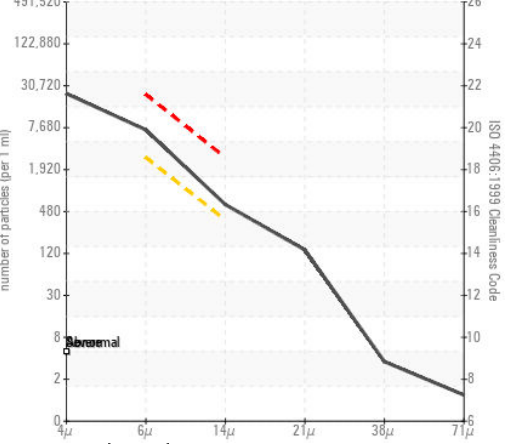
### Non-ferrous Metals



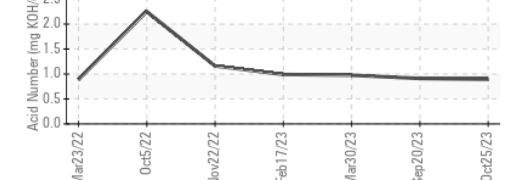
### Viscosity @ 40°C



### ▲ Particle Count



### Acid Number



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KL0013329 **Received** : 01 Nov 2023  
**Lab Number** : 05996263 **Diagnosed** : 03 Nov 2023  
**Unique Number** : 10724623 **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)

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 HERMOSILLO,  
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 F: x: