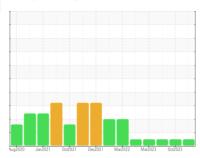


# **OIL ANALYSIS REPORT**

# GUAY SON [CONHER] **MADE IN MEXICO IBACO BM NAUTICO 4**

**Auxiliary Auxiliary Engine** 

**XTRA REV 15W40 (8 LTR)** 



Sample Rating Trend



### Recommendation

Resample at the next service interval to monitor.

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.

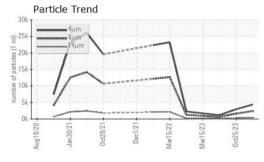
### **Fluid Condition**

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

	4 <sub>002</sub> 2020 Jan2021 Oec2021 Dec2021 Mar2022 Mar2023 Oec2023					
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KL0013477	KL0013340	KL0012836
Sample Date		Client Info		20 Jan 2024	25 Oct 2023	20 Sep 2023
Machine Age	hrs	Client Info		0	3835	2891
Oil Age	hrs	Client Info		250	214	24
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	9	10	13
Chromium	ppm	ASTM D5185m	>20	<1	0	<1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	<1	4
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	1	<1	2
Tin	ppm	ASTM D5185m	>15	0	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		49	0	0
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		43	0	<1
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m		498	20	18
Calcium	ppm	ASTM D5185m		1730	3689	3889
Phosphorus	ppm	ASTM D5185m		990	939	980
Zinc	ppm	ASTM D5185m		1145	1138	1225
Sulfur	ppm	ASTM D5185m		3006	4309	5070
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	3	5
Sodium	ppm	ASTM D5185m		0	1	2
Potassium	ppm	ASTM D5185m	>20	5	0	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0.9	0.1
Nitration	Abs/cm	*ASTM D7624	>20	7.9	12.3	7.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.7	21.6	18.5



## **OIL ANALYSIS REPORT**



method				history2
ASTM D7647		4367	2940	1140
ASTM D7647	>5000	2379	1602	621
ASTM D7647	>640	405	273	106
ASTM D7647	>160	136	92	36
ASTM D7647	>40	21	14	5
ASTM D7647	>10	2	1	1
ISO 4406 (c)	>19/16	18/16	18/15	16/14
	ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	ASTM D7647 >5000 ASTM D7647 >640 ASTM D7647 >160 ASTM D7647 >40	ASTM D7647 4367  ASTM D7647 >5000 2379  ASTM D7647 >640 405  ASTM D7647 >160 136  ASTM D7647 >40 21  ASTM D7647 >10 2	ASTM D7647 4367 2940  ASTM D7647 >5000 2379 1602  ASTM D7647 >640 405 273  ASTM D7647 >160 136 92  ASTM D7647 >40 21 14  ASTM D7647 >10 2 1

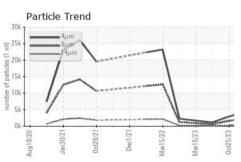
	Numbei	r			
16.0					
<sub>5</sub> 14.0					
長12.0	-				1
8.0 - 8.0 -		1	/		
± 8.0 −			\ /		
<u></u> 6.0 +					
ž 4.0 -					
2.0					
0.0					
8/20	0/21	8/21	5/22	5/23	5/23
Aug 18	Jan30	Oct28//	Marl	Mari	Oct25/2
A	,		2	2	_

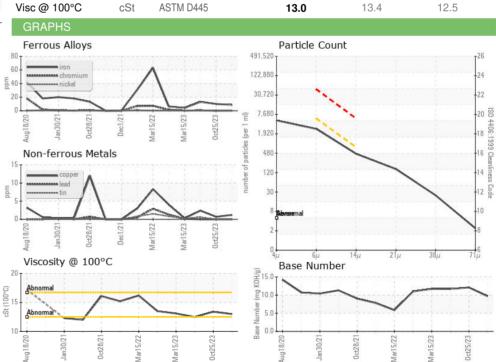
FLUID DEGRADA	TION	method	limit/base		history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	22.6	17.5	13.4
Base Number (BN)	mg KOH/g	ASTM D2896		9.67	12.10	11.65

Visco	sity @ 1	00°C			
18 - Abnorm	al				
(100°C)					
13 Abnorm	al	/			
Aug18/20	Jan30/21	0ct28/21	Mar15/22	Mar15/23	Oct25/23

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

13.0









Laboratory Sample No. Lab Number

: 06075002 Unique Number : 10857093

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : KL0013477 Diagnosed

cSt

ASTM D445

: 30 Jan 2024 : 02 Feb 2024 Diagnostician : Jonathan Hester

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** JUAREZ 348 HERMOSILLO, MX 83140

Contact: EDUARDO GARCIA egarcia.comsa@gmail.com

Submitted By: EDUARDO GARCIA

13.4

12.5

T: (526)622-1581 x:81 F: x: