

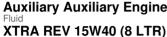
OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

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

Auxiliary Auxiliary Engine



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

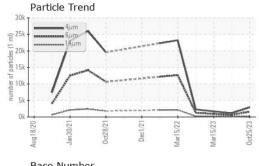
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KL0013340	KL0012836	KL0011368
Sample Date		Client Info		25 Oct 2023	20 Sep 2023	15 Mar 2023
Machine Age	hrs	Client Info		3835	2891	2778
Oil Age	hrs	Client Info		214	24	156
Oil Changed		Client Info		Changed	Changed	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	V	method	limit/base	current	history1	history2
Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	10	13	4
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	<1	4	1
Lead	ppm	ASTM D5185m	>40	0	0	<1
Copper	ppm	ASTM D5185m	>330	<1	2	<1
Tin	ppm	ASTM D5185m	>15	0	<1	<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		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	<1	<1
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		20	18	15
Calcium	ppm	ASTM D5185m		3689	3889	3734
Phosphorus	ppm	ASTM D5185m		939	980	909
Zinc	ppm	ASTM D5185m		1138	1225	1087
Sulfur	ppm	ASTM D5185m		4309	5070	5694
CONTAMINANTS						
		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	limit/base >25	3	5	4
Silicon Sodium		ASTM D5185m ASTM D5185m	>25	3 1	5	4
Silicon	ppm	ASTM D5185m	>25	3	5	4
Silicon Sodium	ppm ppm	ASTM D5185m ASTM D5185m	>25	3 1	5	4
Silicon Sodium Potassium	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	>25 >20	3 1 0	5 2 0	4 1 <1
Silicon Sodium Potassium INFRA-RED	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method	>25 >20 limit/base	3 1 0 current	5 2 0 history1	4 1 <1 history2



OIL ANALYSIS REPORT



FLUID CLEANLINESS	method				history2
Particles >4μm	ASTM D7647		2940	1140	1705
Particles >6μm	ASTM D7647	>5000	1602	621	929
Particles >14µm	ASTM D7647	>640	273	106	158
Particles >21µm	ASTM D7647	>160	92	36	53
Particles >38µm	ASTM D7647	>40	14	5	8
Particles >71µm	ASTM D7647	>10	1	1	1
Oil Cleanliness	ISO 4406 (c)	>19/16	18/15	16/14	17/14

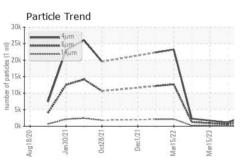
	Number				
14.0					
\$ 12.0					
8.0 Number (mg KOH/g)			/		
8.0+			\ /		
6.0 es 4.0			~		
2.0					
0.0					
18/20	Jan30/21)ct28/21	15/22	15/23)ct25/23
Aug18/	Jac	0	Mar15/	Mar15/	Oct

FLUID DEGRADATION		method iimi/base			riistory i	nistory∠	
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.5	13.4	10.7	
Base Number (BN)	mg KOH/g	ASTM D2896		12.10	11.65	11.70	

Viscosity @ :	100°C			
18 17 - Abnomal				
© 16 00 15 8 14				
12 11 Jan30/21	Oct28/21	Mar15/22	Mar15/23	25/23

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	VLITE
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
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

13.4



GRAPHS							
Ferrous Alloys				Par 491,520 _T	ticle Count		
iron chromium		^		122,880			
nickel				30,720	1		+
720-	12	727	23	€ 7,680			
Aug18/20 Jan30/21	Dec1/21	Mar15/22	Oct25/23	a 1,920	1		
Non-ferrous Me	tals			7,680 1,920 480			
copper				120- 120-			
••••••••••••••••••••••••••••••••••••••	\	\wedge		ā 30-			
	1			8 Shreen	mal		1
Aug18/20 Jan30/21 Oct28/21	Dec1/21	Mar15/22	Oct25/23	2-			
Viscosity @ 100		Ma S	00	0 4μ Ras	6μ 14) se Number	μ 2 1 μ	38μ 71
AL				Bas (May KOH/g) 10.0	. Humber	1	
Abnormal	/~	\		E 10.0	$\overline{}$	_/	
Abnormal				5.0 -		~	





Laboratory Sample No. Lab Number Unique Number : 10724737

: KL0013340 : 05996377

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 01 Nov 2023 Diagnosed Diagnostician : Don Baldridge

: 03 Nov 2023

Test Package : MOB 2 (Additional Tests: PrtCount) To discuss this sample report, contact Customer Service at 1-800-237-1369.

FLUID PROPERTIES

Visc @ 100°C

cSt

ASTM D445

* - 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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