

OIL ANALYSIS REPORT

GUAY SON [CONHER] Machine Id MADE IN MEXICO IBACO BM NAUTICO 4 Component

Bottom Diesel Engine Fluid Xtra Rev 15W40 (160 LTR)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor. (Customer Sample Comment: Xtra Rev 15W40)

Wear

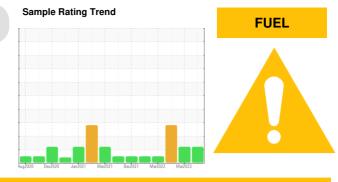
All component wear rates are normal.

Contamination

Light fuel dilution occurring. The amount and size of particulates present in the system are acceptable.

Fluid Condition

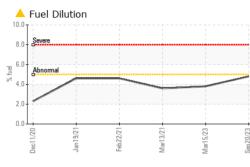
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

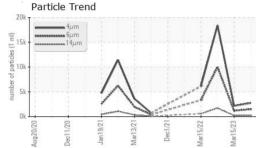


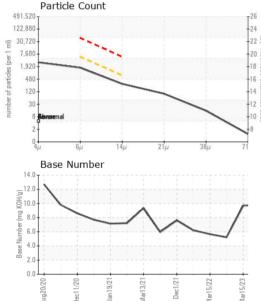
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KL0012835	KL0011367	KL0011204
Sample Date		Client Info		20 Sep 2023	15 Mar 2023	24 Oct 2022
Machine Age	hrs	Client Info		16363	12614	0
Oil Age	hrs	Client Info		10	645	0
Oil Changed		Client Info		Not Changd	Not Changd	N/A
Sample Status				ATTENTION	ATTENTION	ABNORMAL
CONTAMINATION	N	method	limit/base	current	history1	history2
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	11	10	1 02
Chromium	ppm	ASTM D5185m	>20	<1	<1	3
Nickel	ppm	ASTM D5185m	>2	0	0	<1
Titanium	ppm	ASTM D5185m	>2	<1	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	1
Aluminum	ppm	ASTM D5185m	>25	3	2	3
Lead	ppm	ASTM D5185m	>40	0	<1	6
Copper	ppm	ASTM D5185m	>330	3	3	14
Tin	ppm	ASTM D5185m	>15	<1	0	2
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		40	36	9
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		28	27	106
Manganese	ppm	ASTM D5185m		<1	<1	2
Magnesium	ppm	ASTM D5185m		114	105	481
Calcium	ppm	ASTM D5185m		2502	2545	1707
Phosphorus	ppm	ASTM D5185m		1118	1053	810
Zinc	ppm	ASTM D5185m		1345	1242	1068
Sulfur	ppm	ASTM D5185m		3700	3926	3608
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	5	14
Sodium	ppm	ASTM D5185m		<1	<1	15
Potassium	ppm	ASTM D5185m	>20	0	<1	2
Fuel	%	ASTM D3524	>5	4.8	▲ 3.8	<1.0
INFRA-RED		method	limit/base	current	history1	history2
a	%	*ASTM D7844	>3	0.3	0.3	1.2
Soot %	70	A3 HVI D7044	20	0.3	0.0	1.6
Soot % Nitration	Abs/cm	*ASTM D7624		7.5	7.5	10.1

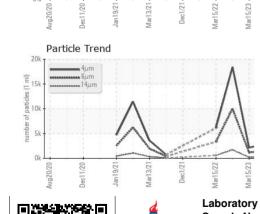


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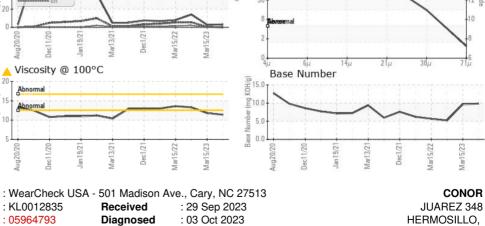








FLUID CLEANLIN	IESS	method	limit/base	current	history1	history	
Particles >4µm		ASTM D7647		2723	2166	18398	
Particles >6µm		ASTM D7647	>5000	1483	1180	▲ 10022	
Particles >14µm		ASTM D7647	>640	252	201	1706	
Particles >21µm		ASTM D7647	>160	85	68	▲ 575	
Particles >38µm		ASTM D7647	>40	13	10	A 89	
Particles >71µm		ASTM D7647	>10	1	1	9	
Oil Cleanliness		ISO 4406 (c)	>19/16	18/15	17/15	1 /18	
FLUID DEGRADA	TION	method	limit/base	current	history1	history	
Oxidation	Abs/.1mm	*ASTM D7414	>25	10.5	10.6	24.1	
Base Number (BN)	mg KOH/g	ASTM D2896		9.85	9.64	5.21	
VISUAL		method	limit/base	current	history1	history	
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	
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG	
Free Water	scalar	*Visual		NEG	NEG	NEG	
FLUID PROPERT	IES	method	limit/base	current	history1	history	
Visc @ 100°C	cSt	ASTM D445	4	11.4	1 1.8	13.3	
GRAPHS							
Ferrous Alloys			Particle Count 491.520 T				
) - iron hickel		\wedge	122,880				
)-	\sim		30,720-	· · · · ·			
5 50 50 50 50 50 50 50 50 50 50 50 50 50	21	22	₩		N	-	
Aug20/20 Dec11/20 Jan19/21	Mar13/21	Mar15/22	(per 1 ml 026'1				
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Non-ferrous Metals			te au				
copper			(m 1,680 1,920 480 120 120				
read tin			a 30.				
un							
tin	1		8-	Serve rnal			



HERMOSILLO, MX 83140 Contact: EDUARDO GARCIA egarcia.comsa@gmail.com T: (526)622-1581 x:81 F: x:

Lab Number Unique Number Test Package : MOB 2 (Additional Tests: FuelDilution, PercentFuel, PrtCount) Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

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* - 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)

1/20

Dec11

: KL0012835

: 05964793

: 10671344

Abnorma

20

Aug 20/20

cst (

Sample No.

Viscosity @ 100°C

Jan 19/21.

Dec1/21.

Diagnostician : Angela Borella

Mar13/21

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Mar15/23