

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

A Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

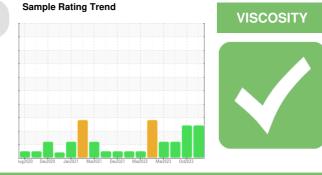
All component wear rates are normal.

Contamination

There is a moderate amount of particulates present in the oil. Fuel content negligible.

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.

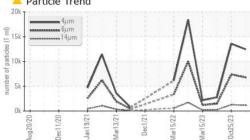


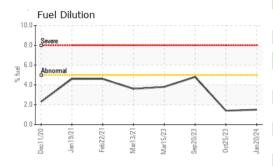
SAMPLE INFORM	1ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KL0013475	KL0013339	KL0012835
Sample Date		Client Info		20 Jan 2024	25 Oct 2023	20 Sep 2023
Machine Age	hrs	Client Info		18256	17040	16363
Oil Age	hrs	Client Info		412	271	10
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ATTENTION	ATTENTION	ATTENTION
CONTAMINATION	١	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	14	4	11
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	>25	2	<1	3
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	5	1	3
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		4	0	40
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		9	2	28
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m		104	14	114
Calcium	ppm	ASTM D5185m		2493	2566	2502
Phosphorus	ppm	ASTM D5185m		1156	1091	1118
Zinc	ppm	ASTM D5185m		1310	1272	1345
Sulfur	ppm	ASTM D5185m		3610	3237	3700
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	7	7	5
Sodium	ppm	ASTM D5185m		0	0	<1
Potassium	ppm	ASTM D5185m	>20	3	<1	0
1 0123310111						
Fuel	%	ASTM D3524	>5	1.5	1.4	<u>▲</u> 4.8
		ASTM D3524 method	>5 limit/base	1.5 current	1.4 history1	4.8 history2
Fuel						
Fuel INFRA-RED	%	method	limit/base >3	current	history1	history2

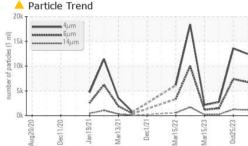


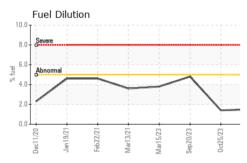
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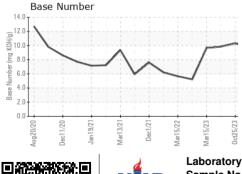
🔺 Particle Trend



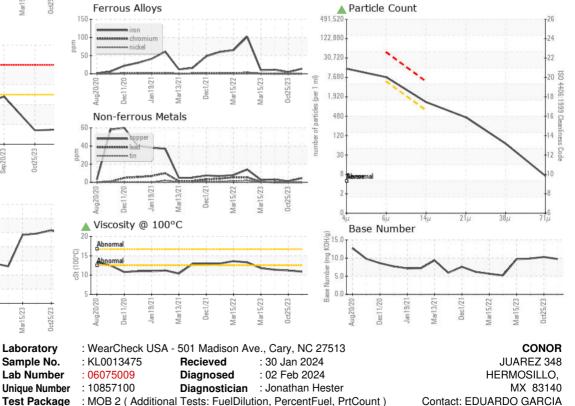








FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2	
Particles >4µm		ASTM D7647		12441	13554	2723	
Particles >6µm		ASTM D7647	>5000	6777	▲ 7384	1483	
Particles >14µm		ASTM D7647	>640	1153	1257	252	
Particles >21µm		ASTM D7647	>160	a 389	4 23	85	
Particles >38µm		ASTM D7647	>40	6 0	6 5	13	
Particles >71µm		ASTM D7647	>10	6	7	1	
Oil Cleanliness		ISO 4406 (c)	>19/16	20/17	▲ 20/17	18/15	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	10.9	15.1	10.5	
Base Number (BN)	mg KOH/g	ASTM D2896		9.73	10.30	9.85	
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	
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG	
Free Water	scalar	*Visual		NEG	NEG	NEG	
FLUID PROPERT	IES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445		1 0.9	▲ 11.2	▲ 11.4	
GRAPHS							
Ferrous Alloys	Particle Count						



Test Package : MOB 2 (Additional Tests: FuelDilution, PercentFuel, PrtCount) Certificate L2367 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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Page 2 of 2

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