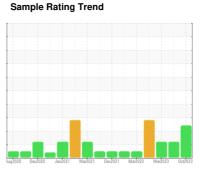


OIL ANALYSIS REPORT

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

Bottom Diesel Engine

XTRA REV 15W40 (160 LTR)





DIAGNOSIS

Recommendation

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

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	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KL0013339	KL0012835	KL0011367
Sample Date		Client Info		25 Oct 2023	20 Sep 2023	15 Mar 2023
Machine Age	hrs	Client Info		17040	16363	12614
Oil Age	hrs	Client Info		271	10	645
Oil Changed	0	Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ATTENTION	ATTENTION	ATTENTION
CONTAMINATION	J	method	limit/base	current	history1	history2
Glycol		WC Method	mmodaoo	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
						,
Iron	ppm	ASTM D5185m		4	11	10
Chromium	ppm	ASTM D5185m		0	<1 0	<1
Nickel Titanium	ppm	ASTM D5185m ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	υ <1	3	2
Lead		ASTM D5185m	>40	0	0	<1
Copper	ppm	ASTM D5185m		1	3	3
Tin	ppm	ASTM D5185m	>15	0	<1	0
Vanadium	ppm	ASTM D5185m	>10	0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	40	36
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		2	28	27
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		14	114	105
Calcium	ppm	ASTM D5185m		2566	2502	2545
Phosphorus	ppm	ASTM D5185m		1091	1118	1053
Zinc	ppm	ASTM D5185m		1272	1345	1242
Sulfur	ppm	ASTM D5185m		3237	3700	3926
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	7	5	5
Sodium	ppm	ASTM D5185m		0	<1	<1
Potassium	ppm	ASTM D5185m	>20	<1	0	<1
Fuel	%	ASTM D3524	>5	1.4	△ 4.8	▲ 3.8
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.9	0.3	0.3
Nitration	Abs/cm	*ASTM D7624	>20	8.9	7.5	7.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.6	17.9	18.1



OIL ANALYSIS REPORT

