

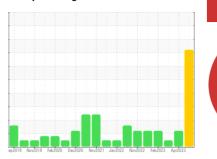
OIL ANALYSIS REPORT

GUAY SON [CONHER] **IBACO COZAR VII**

Component

Main Diesel Engine

XTRA REV 15W40 (160 LTR)



Sample Rating Trend



DIAGNOSIS

Recommendation

We advise that you check for the source of the coolant leak. Check for low coolant level. We advise that you check the fuel injection system. We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

Sodium and/or potassium levels are high. There is a high amount of particulates present in the oil. There is a high amount of fuel present in the oil.

Fluid Condition

Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.

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SAMPLE INFORM	NOITAN	method	limit/base	current	history1	history2
Sample Number		Client Info		KL0012869	KL0011402	KL0010261
Sample Date		Client Info		20 Sep 2023	06 Apr 2023	26 Feb 2023
Machine Age	hrs	Client Info		17044	17042	16711
Oil Age	hrs	Client Info		2	326	2
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				SEVERE	ABNORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	14	5	2
Chromium	ppm	ASTM D5185m	>20	<1	0	<1
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	3	<1	2
Lead	ppm	ASTM D5185m	>40	1	0	0
Copper	ppm	ASTM D5185m	>330	6	4	<1
Tin	ppm	ASTM D5185m	>15	1	0	0
Vanadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		120	74	48
Barium	ppm	ASTM D5185m		0	0	2
Molybdenum	ppm	ASTM D5185m		37	28	15
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		118	130	69
Calcium	ppm	ASTM D5185m		2033	2618	2646
Phosphorus	ppm	ASTM D5185m		1040	1046	1076
Zinc	ppm	ASTM D5185m		1232	1338	1255
Sulfur	ppm	ASTM D5185m		3965	4274	4049
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	10	6	5
Sodium	ppm	ASTM D5185m		126	0	<1
Potassium	ppm	ASTM D5185m	>20	4 96	2	3
Fuel	%	ASTM D3524	>5	12.3	▲ 8.8	<1.0
Glycol	%	*ASTM D2982		NEG	NEG	NEG
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	11.5	7.6	4.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	10.1	17.3	14.1



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