

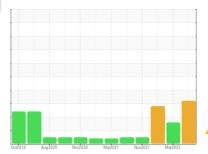
OIL ANALYSIS REPORT

GUAY SON [CONHER] **IBACO NANDO**

Component

Bottom Diesel Engine

XTRA REV 15W40 (160 LTR)



Sample Rating Trend



DIAGNOSIS

Recommendation

We advise that you check the fuel injection system. We recommend you service the filters on this component. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a high amount of particulates present in the oil. Tests confirm the presence of fuel 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.

		Oct2019	Aug2020 Nov2020	Mar2021 Nov2021 M	ar2022	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KL0012844	KL0009215	KL0009127
Sample Date		Client Info		20 Sep 2023	23 Mar 2022	24 Feb 2022
Machine Age	hrs	Client Info		10886	0	8994
Oil Age	hrs	Client Info		7	447	2140
Oil Changed		Client Info		Not Changd	N/A	Not Changd
Sample Status				ABNORMAL	ATTENTION	ABNORMAL
CONTAMINATION	٧	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	7	63	56
Chromium	ppm	ASTM D5185m	>20	0	5	6
Nickel	ppm	ASTM D5185m	>4	0	0	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	<1	0
Aluminum	ppm	ASTM D5185m	>20	3	6	6
Lead	ppm	ASTM D5185m	>40	2	6	4
Copper	ppm	ASTM D5185m	>330	5	72	93
Tin	ppm	ASTM D5185m	>15	<1	1	1
Antimony	ppm	ASTM D5185m				<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	63	28
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	114	115
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		5	566	562
Calcium	ppm	ASTM D5185m		2525	1669	1679
Phosphorus	ppm	ASTM D5185m		1123	901	885
Zinc	ppm	ASTM D5185m		1366	1080	1161
Sulfur	ppm	ASTM D5185m		3485	2650	2947
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	9	18	20
Sodium	ppm	ASTM D5185m		3	55	52
Potassium	ppm	ASTM D5185m		2	4	6
Fuel	%	ASTM D3524	>5	△ 4.8	<1.0	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0	1.2	1.2
Nitration	Abs/cm	*ASTM D7624	>20	4.3	11.0	10.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	12.3	30.1	30.6



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