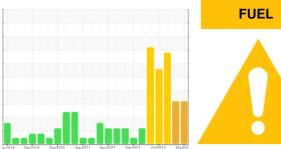


# **OIL ANALYSIS REPORT**

Sample Rating Trend



# GUAY SON [CONHER] IBACO COZAR VII

Main Diesel Engine

**RALOY 15W40 (160 LTR)** 

Fluid Fluid (100

## DIAGNOSIS

#### Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor. ( Customer Sample Comment: Fluid: Raloy 15W40 )

#### Wear

All component wear rates are normal.

## Contamination

There is a high amount of particulates present in the oil. Light fuel dilution occurring.

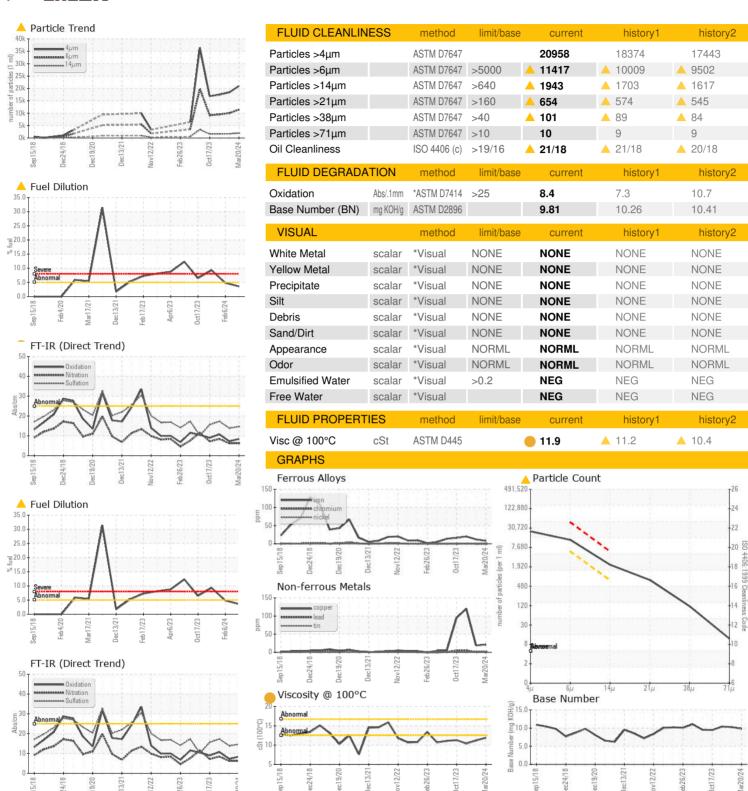
#### Fluid Condition

Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KL0014184	KL0014152	KL0013354
Sample Date		Client Info		20 Mar 2024	06 Feb 2024	01 Nov 2023
Machine Age	hrs	Client Info		0	19453	17869
Oil Age	hrs	Client Info		0	390	345
Oil Changed		Client Info		N/A	Not Changd	Not Changd
Sample Status				ABNORMAL	ABNORMAL	SEVERE
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	8	12	20
Chromium	ppm	ASTM D5185m	>20	0	0	<1
Nickel	ppm	ASTM D5185m	>4	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	1	2	2
Lead	ppm	ASTM D5185m	>40	2	<1	5
Copper	ppm	ASTM D5185m	>330	21	19	120
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
Cadmium  ADDITIVES	ppm	ASTM D5185m method	limit/base	o current	0 history1	0 history2
	ppm		limit/base			
ADDITIVES		method	limit/base	current	history1	history2
ADDITIVES Boron	ppm	method ASTM D5185m	limit/base	current 0	history1	history2
ADDITIVES Boron Barium	ppm ppm	method ASTM D5185m ASTM D5185m	limit/base	current 0 0	history1 4 0	history2 7 0
ADDITIVES  Boron  Barium  Molybdenum	ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	current 0 0 2	history1 4 0 5	history2 7 0 23
ADDITIVES  Boron  Barium  Molybdenum  Manganese	ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	current 0 0 2 0	history1  4  0  5  <1	history2 7 0 23 <1
ADDITIVES  Boron  Barium  Molybdenum  Manganese  Magnesium	ppm ppm ppm ppm	method  ASTM D5185m  ASTM D5185m  ASTM D5185m  ASTM D5185m  ASTM D5185m	limit/base	current 0 0 2 0 4 2732 1113	history1  4  0  5  <1  11	history2 7 0 23 <1 51
ADDITIVES  Boron  Barium  Molybdenum  Manganese  Magnesium  Calcium  Phosphorus  Zinc	ppm ppm ppm ppm ppm	method  ASTM D5185m	limit/base	current 0 0 2 0 4 2732	history1  4 0 5 <1 11 2429	history2  7  0 23 <1 51 2445
ADDITIVES  Boron  Barium  Molybdenum  Manganese  Magnesium  Calcium  Phosphorus	ppm ppm ppm ppm ppm ppm	method  ASTM D5185m	limit/base	current 0 0 2 0 4 2732 1113	history1  4  0  5  <1  11  2429  1004	history2  7  0 23  <1 51 2445 1072
ADDITIVES  Boron  Barium  Molybdenum  Manganese  Magnesium  Calcium  Phosphorus  Zinc	ppm ppm ppm ppm ppm ppm ppm ppm	method  ASTM D5185m	limit/base	current 0 0 2 0 4 2732 1113 1272	history1  4  0  5  <1  11  2429  1004  1223	history2  7  0 23 <1 51 2445 1072 1300
ADDITIVES  Boron  Barium  Molybdenum  Manganese  Magnesium  Calcium  Phosphorus  Zinc  Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm	method  ASTM D5185m	limit/base	current 0 0 2 0 4 2732 1113 1272 4069	history1  4  0  5  <1  11  2429  1004  1223  2919	history2  7  0 23  <1 51 2445 1072 1300 3600
ADDITIVES  Boron  Barium  Molybdenum  Manganese  Magnesium  Calcium  Phosphorus  Zinc  Sulfur  CONTAMINANTS  Silicon  Sodium	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	limit/base >25	current 0 0 0 2 0 4 2732 1113 1272 4069 current 10 24	history1  4  0  5  <1  11  2429  1004  1223  2919  history1  8  40	history2  7  0 23 <1 51 2445 1072 1300 3600 history2 8  85
ADDITIVES  Boron  Barium  Molybdenum  Manganese  Magnesium  Calcium  Phosphorus  Zinc  Sulfur  CONTAMINANTS  Silicon  Sodium  Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method  ASTM D5185m	limit/base >25 >20	current  0  0  2  0  4  2732  1113  1272  4069  current  10  24  16	history1  4  0  5  <1  11  2429  1004  1223  2919  history1  8  40  28	history2  7  0 23 <1 51 2445 1072 1300 3600 history2  8  85 61
ADDITIVES  Boron  Barium  Molybdenum  Manganese  Magnesium  Calcium  Phosphorus  Zinc  Sulfur  CONTAMINANTS  Silicon  Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	limit/base >25 >20	current 0 0 0 2 0 4 2732 1113 1272 4069 current 10 24	history1  4  0  5  <1  11  2429  1004  1223  2919  history1  8  40	history2  7  0 23 <1 51 2445 1072 1300 3600 history2 8  85
ADDITIVES  Boron  Barium  Molybdenum  Manganese  Magnesium  Calcium  Phosphorus  Zinc  Sulfur  CONTAMINANTS  Silicon  Sodium  Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method  ASTM D5185m	limit/base >25 >20	current  0  0  2  0  4  2732  1113  1272  4069  current  10  24  16	history1  4  0  5  <1  11  2429  1004  1223  2919  history1  8  40  28	history2  7  0 23 <1 51 2445 1072 1300 3600 history2  8  85 61
ADDITIVES  Boron  Barium  Molybdenum  Manganese  Magnesium  Calcium  Phosphorus  Zinc  Sulfur  CONTAMINANTS  Silicon  Sodium  Potassium  Fuel	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	limit/base >25 >20 >5	current  0 0 0 2 0 4 2732 1113 1272 4069  current 10 24 16 ▲ 3.6	history1  4  0  5  <1  11  2429  1004  1223  2919  history1  8  40  28  ▲ 4.8	history2  7  0 23 <1 51 2445 1072 1300 3600 history2  8  85 61  9.3
ADDITIVES  Boron  Barium  Molybdenum  Manganese  Magnesium  Calcium  Phosphorus  Zinc  Sulfur  CONTAMINANTS  Silicon  Sodium  Potassium  Fuel  INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method  ASTM D5185m	limit/base >25 >20 >5 limit/base >3	current  0 0 2 0 4 2732 1113 1272 4069 current 10 24 16 ▲ 3.6 current	history1  4  0  5  <1  11  2429  1004  1223  2919  history1  8  40  28  ▲ 4.8  history1	history2  7  0 23 <1 51 2445 1072 1300 3600 history2 8  85 61  9.3 history2



## OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No. Lab Number

: 06153292 Unique Number : 10983370

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : KL0014184 Received : 18 Apr 2024 **Tested** : 23 Apr 2024 Diagnosed : 23 Apr 2024 - Don Baldridge

Test Package: MOB 2 (Additional Tests: PercentFuel, PrtCount) 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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Report Id: CONHERKL [WUSCAR] 06153292 (Generated: 04/23/2024 10:13:07) Rev: 1

Submitted By: EDUARDO GARCIA

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