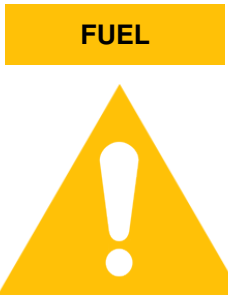
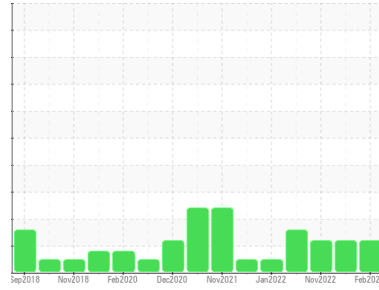




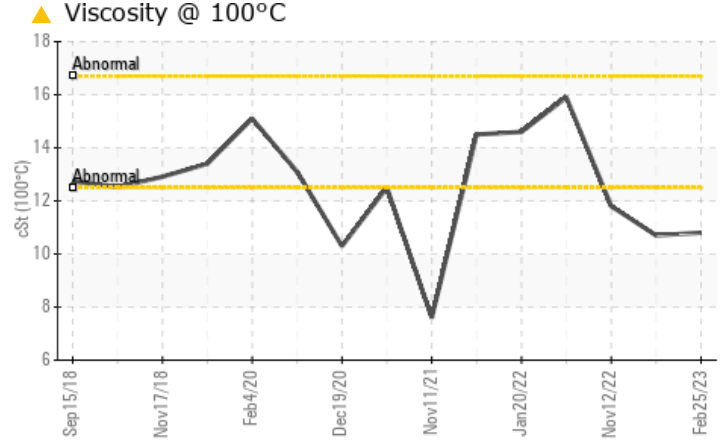
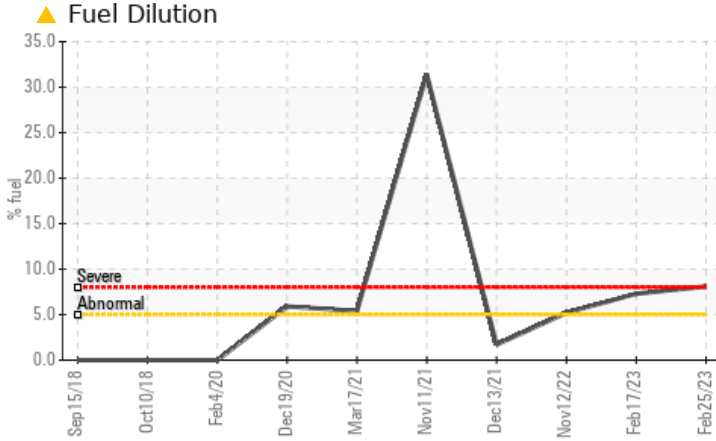
# PROBLEM SUMMARY

Area  
**GUAY SON [CONHER]**  
 Machine Id  
**IBACO COZAR VII**  
 Component  
**Main Diesel Engine**  
 Fluid  
**XTRA REV 15W40 (160 LTR)**

Sample Rating Trend



## COMPONENT CONDITION SUMMARY



## RECOMMENDATION

We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

## PROBLEMATIC TEST RESULTS

Sample Status			<b>ABNORMAL</b>	ABNORMAL	ABNORMAL
Fuel	%	ASTM D3524 >5	▲ 8.1	▲ 7.3	▲ 5.2
Visc @ 100°C	cSt	ASTM D445	▲ 10.8	▲ 10.7	▲ 11.8

Customer Id: CONHERKL  
 Sample No.: KL0010259  
 Lab Number: 05789404  
 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data:  
 Jonathan Hester +1 919-379-4092 x4092  
[jhester@wearcheckusa.com](mailto:jhester@wearcheckusa.com)

To change component or sample information:  
 Customer Service +1 1-800-237-1369  
[customerservice@wearcheck.com](mailto:customerservice@wearcheck.com)

## RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Fluid	---	---	?	Oil and filter change at the time of sampling has been noted.
Change Filter	---	---	?	Oil and filter change at the time of sampling has been noted.
Check Fuel/injector System	MISSED	Apr 19 2023	?	We advise that you check the fuel injection system.

## HISTORICAL DIAGNOSIS

### 17 Feb 2023 Diag: Don Baldrige

#### FUEL



We advise that you check the fuel injection system. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of fuel present in the oil. Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.

view report



### 12 Nov 2022 Diag: Jonathan Hester

#### FUEL



We advise that you check the fuel injection system. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of fuel present in the oil. The amount and size of particulates present in the system are acceptable. Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.

view report



### 23 Mar 2022 Diag: Doug Bogart

#### ISO



No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of particulates present in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

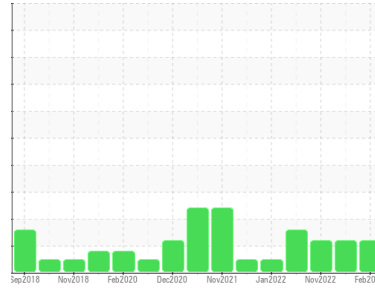
view report





# OIL ANALYSIS REPORT

Sample Rating Trend



FUEL



Area  
**GUAY SON [CONHER]**  
 Machine Id  
**IBACO COZAR VII**  
 Component  
**Main Diesel Engine**  
 Fluid  
**XTRA REV 15W40 (160 LTR)**

## DIAGNOSIS

### Recommendation

We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is a moderate 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.

## SAMPLE INFORMATION

	method	limit/base	current	history 1	history 2
Sample Number	Client Info		<b>KL0010259</b>	KL0010224	KL0011217
Sample Date	Client Info		<b>25 Feb 2023</b>	17 Feb 2023	12 Nov 2022
Machine Age	hrs	Client Info	<b>16709</b>	16617	15438
Oil Age	hrs	Client Info	<b>610</b>	518	767
Oil Changed	Client Info		<b>Changed</b>	Not Changd	Not Changd
Sample Status			<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

## CONTAMINATION

	method	limit/base	current	history 1	history 2
Glycol	WC Method		<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m >100	<b>9</b>	9	20
Chromium	ppm	ASTM D5185m >20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m >4	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185m	<b>0</b>	0	0
Silver	ppm	ASTM D5185m >3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >20	<b>2</b>	0	2
Lead	ppm	ASTM D5185m >40	<b>&lt;1</b>	1	1
Copper	ppm	ASTM D5185m >330	<b>3</b>	4	6
Tin	ppm	ASTM D5185m >15	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	<b>0</b>	0	38
Barium	ppm	ASTM D5185m	<b>2</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>&lt;1</b>	2	21
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	<b>9</b>	8	88
Calcium	ppm	ASTM D5185m	<b>2908</b>	3006	2765
Phosphorus	ppm	ASTM D5185m	<b>1207</b>	1251	1080
Zinc	ppm	ASTM D5185m	<b>1371</b>	1470	1291
Sulfur	ppm	ASTM D5185m	<b>3396</b>	4099	4519

## CONTAMINANTS

	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m >25	<b>6</b>	6	19
Sodium	ppm	ASTM D5185m	<b>2</b>	4	1
Potassium	ppm	ASTM D5185m >20	<b>4</b>	2	0
Fuel	%	ASTM D3524 >5	<b>▲ 8.1</b>	▲ 7.3	▲ 5.2

## INFRA-RED

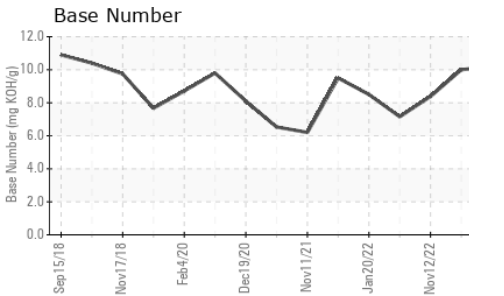
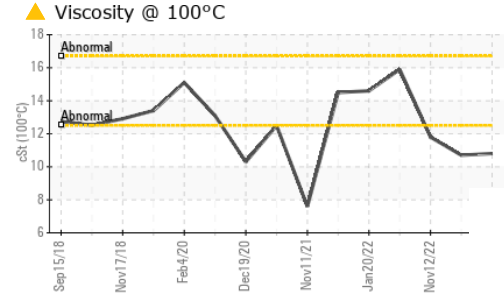
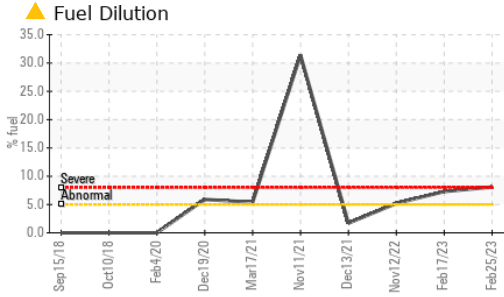
	method	limit/base	current	history 1	history 2
Soot %	%	*ASTM D7844 >3	<b>0.2</b>	0.2	0.4
Nitration	Abs/cm	*ASTM D7624 >20	<b>8.4</b>	8.1	9.9
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>16.9</b>	16.7	20.1

## FLUID DEGRADATION

	method	limit/base	current	history 1	history 2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>10.0</b>	9.9	14.0
Base Number (BN)	mg KOH/g	ASTM D2896	<b>10.2</b>	10.0	8.38



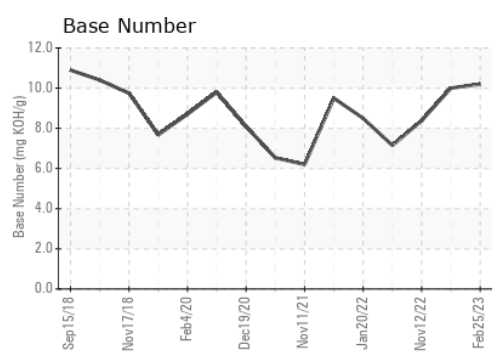
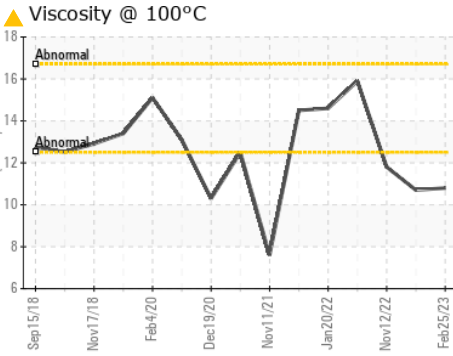
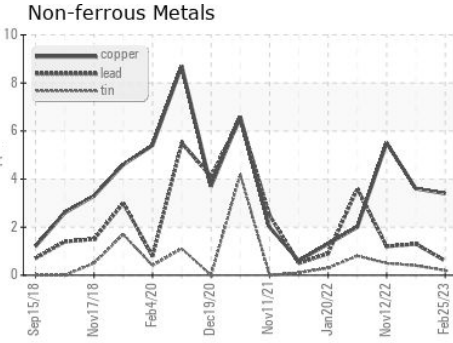
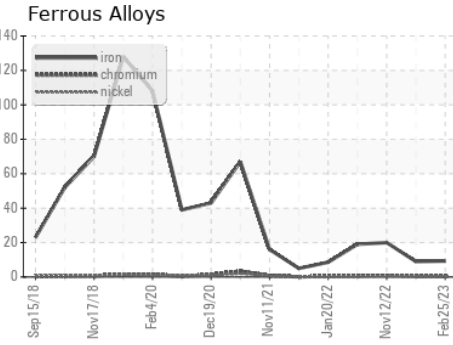
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history 1	history 2
Visc @ 100°C	cSt	ASTM D445	▲ 10.8	▲ 10.7	▲ 11.8

### GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KL0010259 **Received** : 13 Mar 2023  
**Lab Number** : 05789404 **Diagnosed** : 16 Mar 2023  
**Unique Number** : 10374075 **Diagnostician** : Jonathan Hester  
**Test Package** : FLEET ( Additional Tests: PercentFuel )

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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