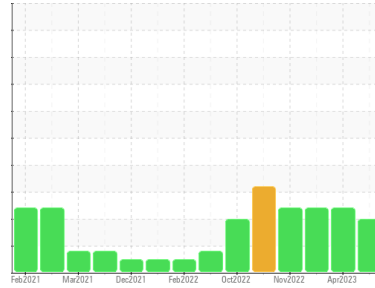




# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area  
**GUAY SON [CONHER]**  
 Machine Id  
**IBACO BM CHUYITO 28 MP**  
 Component  
**Diesel Engine**  
 Fluid  
**XTRA REV 15W40 (--- LTR)**

## DIAGNOSIS

### Recommendation

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. Fuel content negligible.

### Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>KL0012875</b>	KL0011396	KL0011273
Sample Date	Client Info		<b>21 Sep 2023</b>	06 Apr 2023	22 Nov 2022
Machine Age	hrs	Client Info	<b>14980</b>	14970	13719
Oil Age	hrs	Client Info	<b>10</b>	13888	439
Oil Changed	Client Info		<b>Not Chngd</b>	Not Chngd	Not Chngd
Sample Status			<b>ABNORMAL</b>	SEVERE	SEVERE

## CONTAMINATION

	method	limit/base	current	history1	history2
Glycol	WC Method		<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	<b>4</b>	49	15
Chromium	ppm	ASTM D5185m >20	<b>0</b>	<1	<1
Nickel	ppm	ASTM D5185m >4	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m >3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >20	<b>3</b>	<1	1
Lead	ppm	ASTM D5185m >40	<b>&lt;1</b>	<1	1
Copper	ppm	ASTM D5185m >330	<b>1</b>	7	3
Tin	ppm	ASTM D5185m >15	<b>&lt;1</b>	<1	1
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>0</b>	18	1
Barium	ppm	ASTM D5185m	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>1</b>	17	1
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	<b>8</b>	66	6
Calcium	ppm	ASTM D5185m	<b>2559</b>	2360	2447
Phosphorus	ppm	ASTM D5185m	<b>1103</b>	844	978
Zinc	ppm	ASTM D5185m	<b>1342</b>	1045	1109
Sulfur	ppm	ASTM D5185m	<b>3722</b>	3453	3549

## CONTAMINANTS

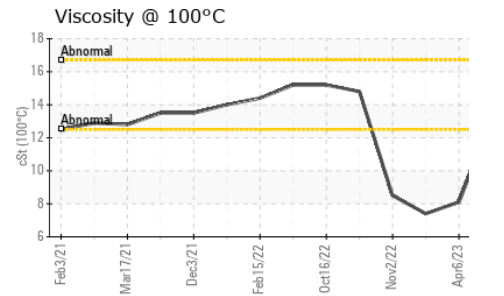
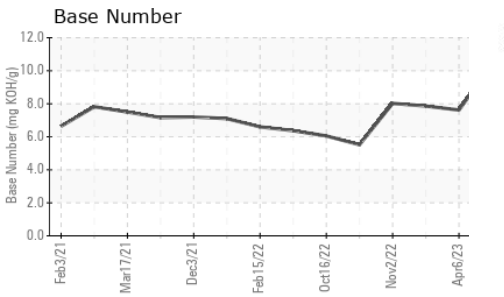
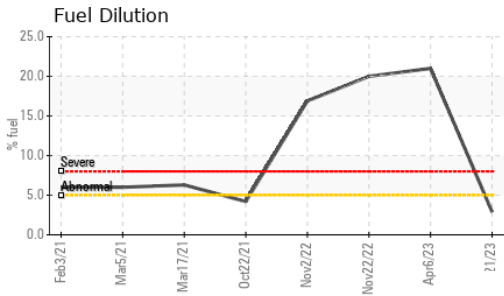
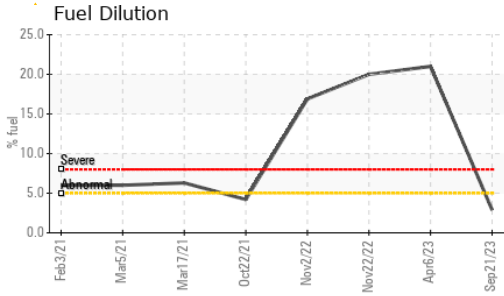
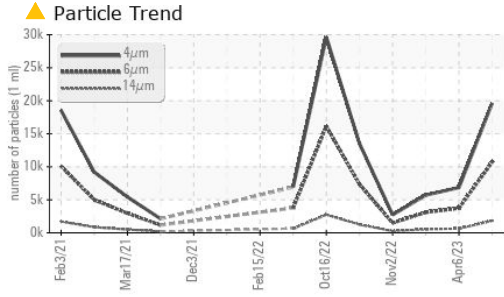
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>6</b>	7	10
Sodium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	1
Potassium	ppm	ASTM D5185m >20	<b>2</b>	1	2
Fuel	%	ASTM D3524 >5	<b>2.9</b>	21.0	20.0

## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>0</b>	0.4	0.2
Nitration	Abs/cm	*ASTM D7624 >20	<b>4.4</b>	10.6	7.4
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>12.3</b>	19.5	15.6



# OIL ANALYSIS REPORT



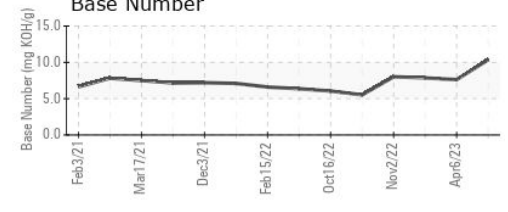
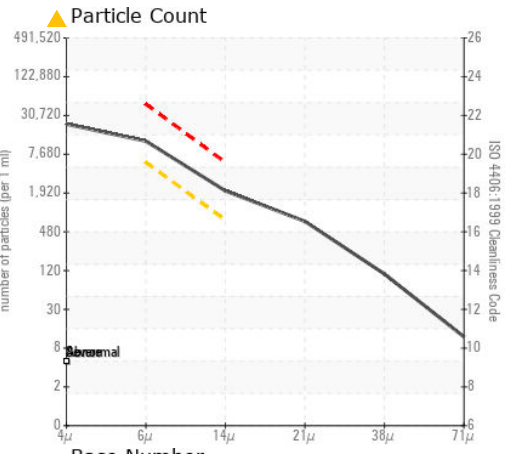
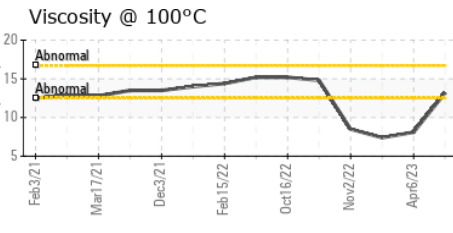
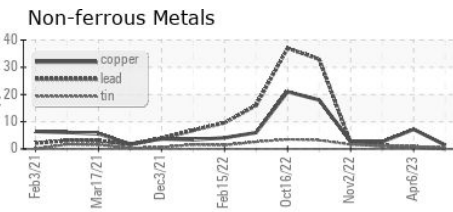
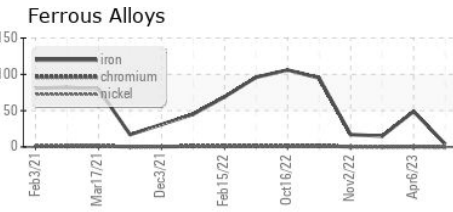
FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		19600	6855	5709
Particles >6µm	ASTM D7647	>5000	▲ 10677	3734	3110
Particles >14µm	ASTM D7647	>640	▲ 1817	636	529
Particles >21µm	ASTM D7647	>160	▲ 612	214	178
Particles >38µm	ASTM D7647	>40	▲ 94	33	28
Particles >71µm	ASTM D7647	>10	▲ 10	3	3
Oil Cleanliness	ISO 4406 (c)	>19/16	▲ 21/18	19/16	19/16

FLUID DEGRADATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414	>25	5.8	14.4	7.9
Base Number (BN)	mg KOH/g ASTM D2896		10.36	7.62	7.86

VISUAL	method	limit/base	current	history1	history2
White Metal	scalar *Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar *Visual	NONE	NONE	NONE	NONE
Precipitate	scalar *Visual	NONE	NONE	NONE	NONE
Silt	scalar *Visual	NONE	NONE	NONE	NONE
Debris	scalar *Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar *Visual	NONE	NONE	NONE	NONE
Appearance	scalar *Visual	NORML	NORML	NORML	NORML
Odor	scalar *Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar *Visual	>0.2	NEG	NEG	NEG
Free Water	scalar *Visual		NEG	NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt ASTM D445		13.2	▲ 8.1	▲ 7.4

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KL0012875 **Received** : 29 Sep 2023  
**Lab Number** : 05964795 **Diagnosed** : 03 Oct 2023  
**Unique Number** : 10671346 **Diagnostician** : Angela Borella  
**Test Package** : MOB 2 ( Additional Tests: PercentFuel, PrtCount )

**CONOR**  
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 HERMOSILLO,  
 MX 83140  
 Contact: EDUARDO GARCIA  
 egarcia.comsa@gmail.com  
 T: (526)622-1581 x:81  
 F: x:

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)