

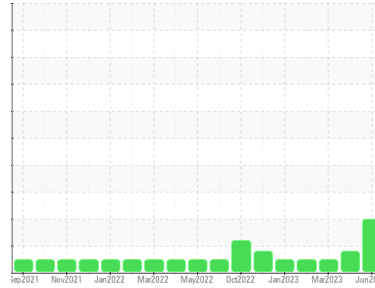


# OIL ANALYSIS REPORT



Area  
**GUAY SON/Yavaros [CONHER]**  
 Machine Id  
**CATERPILLAR Pacifico Ind Azteca MP**  
 Component  
**Diesel Engine**  
 Fluid  
**CHEVRON DELO 400 MULTIGRADE 15W40 (160 LTR)**

Sample Rating Trend



GLYCOL



## DIAGNOSIS

### ▲ Recommendation

No corrective action is recommended at this time. We recommend an early resample to monitor this condition.

### ▲ Wear

Cylinder, crank, or cam shaft wear is indicated.

### Contamination

Sodium and/or potassium levels are high. Test for glycol is negative.

### ▲ Fluid Condition

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

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>KL0012247</b>	KL0012234	KL0010265
Sample Date	Client Info		<b>03 Jun 2023</b>	26 Apr 2023	24 Mar 2023
Machine Age	hrs	Client Info	<b>0</b>	0	0
Oil Age	hrs	Client Info	<b>345</b>	358	404
Oil Changed	Client Info		<b>Not Chngd</b>	Not Chngd	Not Chngd
Sample Status			<b>ABNORMAL</b>	ATTENTION	NORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0
Water	WC Method	>0.2	<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	<b>▲ 130</b>	▲ 92	27
Chromium	ppm	ASTM D5185m >20	<b>2</b>	1	<1
Nickel	ppm	ASTM D5185m >2	<b>2</b>	2	<1
Titanium	ppm	ASTM D5185m >2	<b>0</b>	<1	0
Silver	ppm	ASTM D5185m >2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >25	<b>2</b>	3	2
Lead	ppm	ASTM D5185m >40	<b>8</b>	5	1
Copper	ppm	ASTM D5185m >330	<b>73</b>	69	62
Tin	ppm	ASTM D5185m >15	<b>1</b>	1	<1
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	<1
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>82</b>	86	224
Barium	ppm	ASTM D5185m	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>141</b>	122	111
Manganese	ppm	ASTM D5185m	<b>1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	<b>638</b>	545	518
Calcium	ppm	ASTM D5185m	<b>1638</b>	1437	1356
Phosphorus	ppm	ASTM D5185m 1360	<b>891</b>	772	862
Zinc	ppm	ASTM D5185m 1480	<b>1136</b>	990	1069
Sulfur	ppm	ASTM D5185m	<b>3212</b>	2630	2885

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>12</b>	8	7
Sodium	ppm	ASTM D5185m	<b>▲ 101</b>	86	88
Potassium	ppm	ASTM D5185m >20	<b>2</b>	4	2
Glycol	%	*ASTM D2982	<b>NEG</b>	NEG	NEG

## INFRA-RED

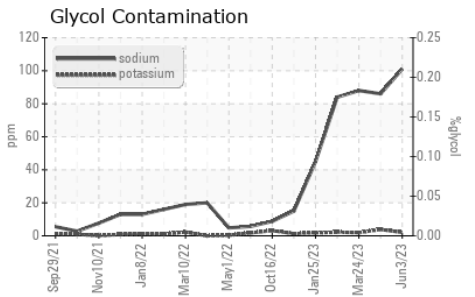
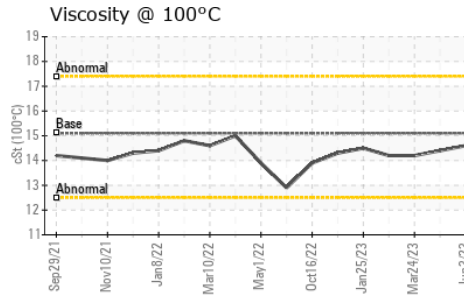
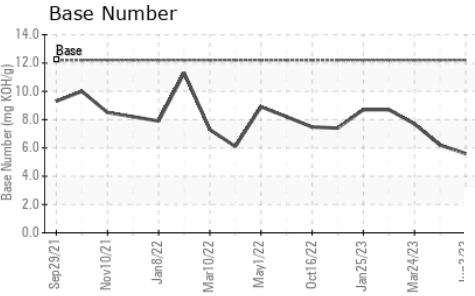
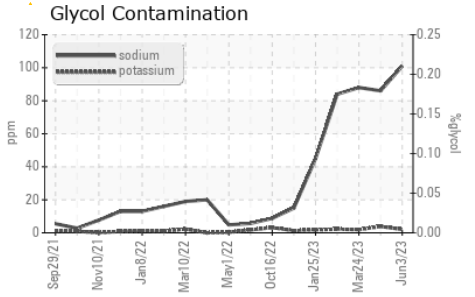
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>1</b>	1	0.5
Nitration	Abs/cm	*ASTM D7624 >20	<b>13.1</b>	12.6	9.4
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>29.2</b>	28.1	23.0

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>30.1</b>	27.2	18.0
Base Number (BN)	mg KOH/g	ASTM D2896 12.2	<b>5.6</b>	6.2	7.7



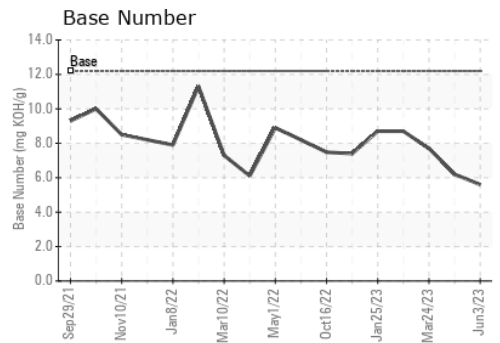
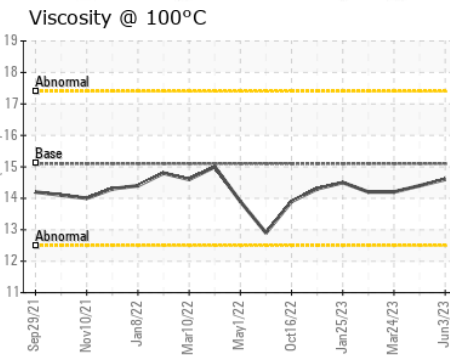
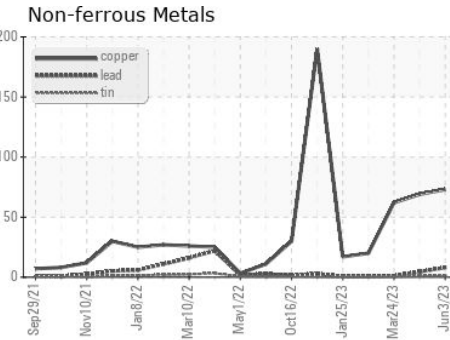
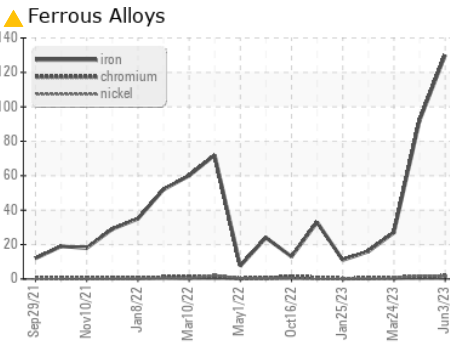
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
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	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.1	14.6	14.4

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KL0012247  
**Lab Number** : 05870110  
**Unique Number** : 10509894  
**Test Package** : FLEET ( Additional Tests: Glycol )

**Received** : 09 Jun 2023  
**Tested** : 14 Jun 2023  
**Diagnosed** : 14 Jun 2023 - Jonathan Hester

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)

**CONOR**  
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