

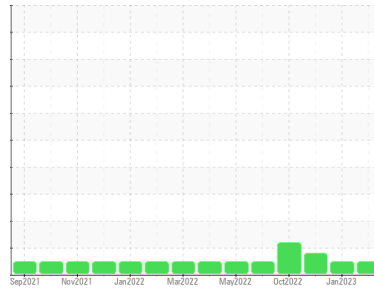


OIL ANALYSIS REPORT



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



NORMAL



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

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		KL0010249	KL0010213	KL0010206
Sample Date	Client Info		22 Feb 2023	25 Jan 2023	15 Nov 2022
Machine Age	hrs	Client Info	0	0	0
Oil Age	hrs	Client Info	100	125	0
Oil Changed	Client Info		Not Chngd	Not Chngd	N/A
Sample Status			NORMAL	NORMAL	ABNORMAL

CONTAMINATION

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

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	16	11	33
Chromium	ppm	ASTM D5185m >20	<1	<1	<1
Nickel	ppm	ASTM D5185m >2	<1	0	0
Titanium	ppm	ASTM D5185m >2	0	0	0
Silver	ppm	ASTM D5185m >2	0	0	0
Aluminum	ppm	ASTM D5185m >25	2	<1	3
Lead	ppm	ASTM D5185m >40	<1	<1	3
Copper	ppm	ASTM D5185m >330	20	17	▲ 190
Tin	ppm	ASTM D5185m >15	<1	<1	<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	239	386	188
Barium	ppm	ASTM D5185m	2	0	2
Molybdenum	ppm	ASTM D5185m	111	107	126
Manganese	ppm	ASTM D5185m	<1	<1	<1
Magnesium	ppm	ASTM D5185m	473	471	554
Calcium	ppm	ASTM D5185m	1371	1422	1487
Phosphorus	ppm	ASTM D5185m 1360	871	887	653
Zinc	ppm	ASTM D5185m 1480	1076	1064	807
Sulfur	ppm	ASTM D5185m	2894	3066	2269

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	7	7	17
Sodium	ppm	ASTM D5185m	84	45	15
Potassium	ppm	ASTM D5185m >20	2	2	1
Glycol	%	*ASTM D2982	NEG	NEG	NEG

INFRA-RED

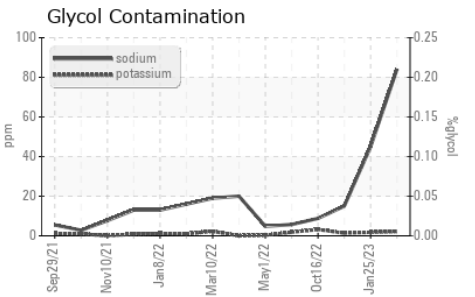
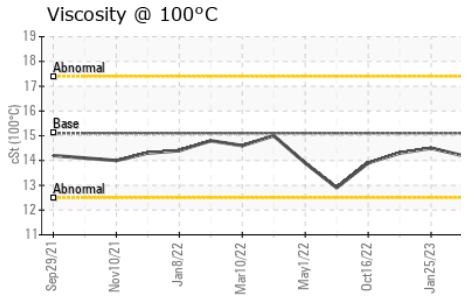
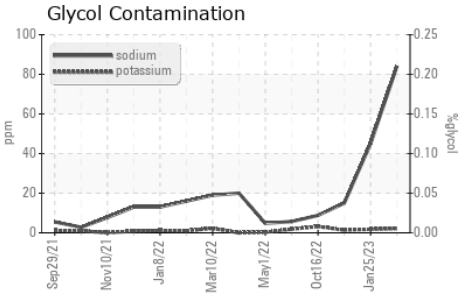
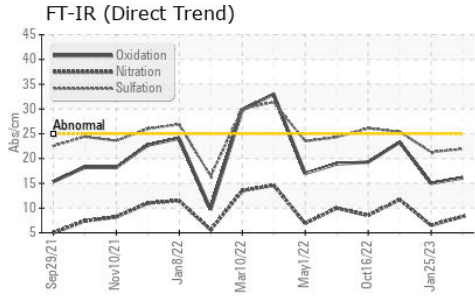
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	0.2	0.1	0.4
Nitration	Abs/cm	*ASTM D7624 >20	8.3	6.5	11.7
Sulfation	Abs/.1mm	*ASTM D7415 >30	21.9	21.3	25.4

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	16.1	15.0	23.3
Base Number (BN)	mg KOH/g	ASTM D2896 12.2	8.7	8.7	7.4



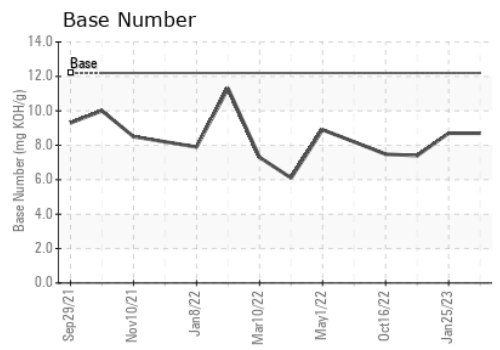
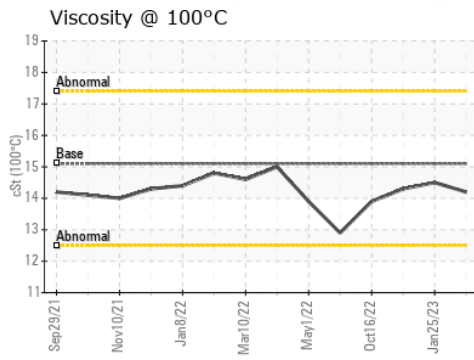
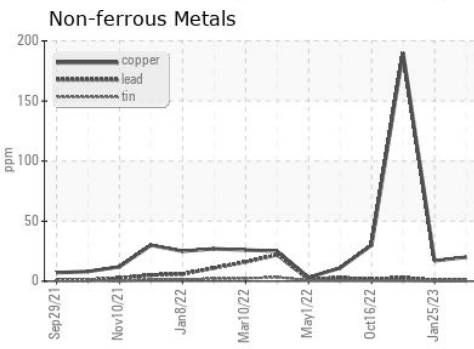
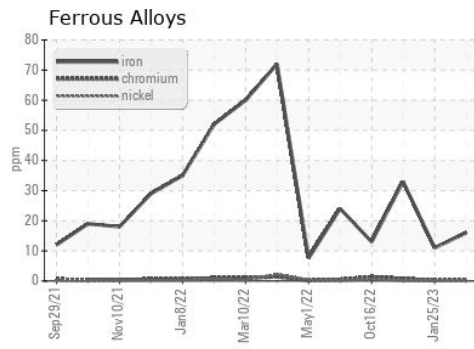
OIL ANALYSIS REPORT



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	14.2	14.5	14.3

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0010249 **Received** : 13 Mar 2023
Lab Number : **05789407** **Tested** : 14 Mar 2023
Unique Number : 10374078 **Diagnosed** : 14 Mar 2023 - Angela Borella
Test Package : FLEET (Additional Tests: Glycol)

CONOR
 JUAREZ 348
 HERMOSILLO,
 MX 83140

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Contact: EDUARDO GARCIA
 egarcia.comsa@gmail.com

* - 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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