

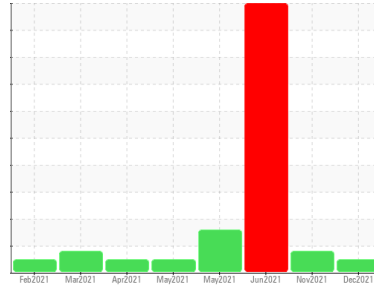


OIL ANALYSIS REPORT



Area
GUAY SON/Yavaros [CONHER]
 Machine Id
CATERPILLAR Pacifico industrial PISA2 MP
 Component
Diesel Engine
 Fluid
CHEVRON DELO 400 SDE SAE 15W40 (100 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 suitable for further service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		KL0009022	KL0007616	KL0007456
Sample Date	Client Info		11 Dec 2021	10 Nov 2021	26 Jun 2021
Machine Age	hrs	Client Info	33300	32980	32780
Oil Age	hrs	Client Info	520	200	332
Oil Changed	Client Info		Not Chngd	N/A	Not Chngd
Sample Status			NORMAL	ABNORMAL	SEVERE

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
Glycol	WC Method		NEG	NEG	0.12

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	21	30	36
Chromium	ppm	ASTM D5185m >20	<1	1	<1
Nickel	ppm	ASTM D5185m >2	0	<1	<1
Titanium	ppm	ASTM D5185m >2	<1	<1	0
Silver	ppm	ASTM D5185m >2	<1	0	<1
Aluminum	ppm	ASTM D5185m >25	2	4	2
Lead	ppm	ASTM D5185m >40	<1	2	16
Copper	ppm	ASTM D5185m >330	44	107	124
Tin	ppm	ASTM D5185m >15	1	0	4
Antimony	ppm	ASTM D5185m	0	0	1
Vanadium	ppm	ASTM D5185m	0	0	0
Cadmium	ppm	ASTM D5185m	0	<1	<1

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	208	153	157
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	120	111	122
Manganese	ppm	ASTM D5185m	<1	1	1
Magnesium	ppm	ASTM D5185m	710	767	▲ 272
Calcium	ppm	ASTM D5185m	1610	1722	▲ 663
Phosphorus	ppm	ASTM D5185m 760	689	674	▲ 325
Zinc	ppm	ASTM D5185m 800	811	813	▲ 421
Sulfur	ppm	ASTM D5185m 3000	1976	3053	▲ 1293

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	7	5	5
Sodium	ppm	ASTM D5185m	0	2	▲ 496
Potassium	ppm	ASTM D5185m >20	<1	<1	3

INFRA-RED

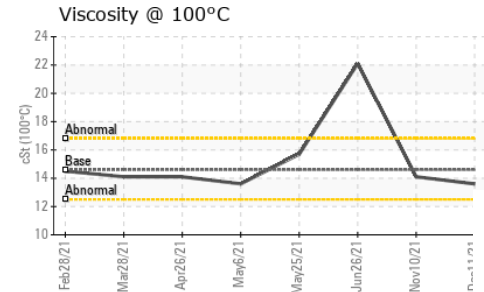
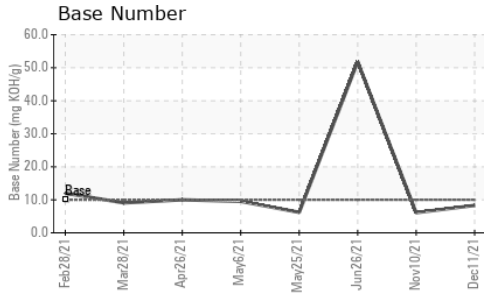
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	1.3	▲ 4.1	1.2
Nitration	Abs/cm	*ASTM D7624 >20	8.2	14.7	39.3
Sulfation	Abs/.1mm	*ASTM D7415 >30	26.2	27.9	0

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	17.2	18.6	34.2
Base Number (BN)	mg KOH/g	ASTM D2896 10	8.3	6.1	▲ 51.8



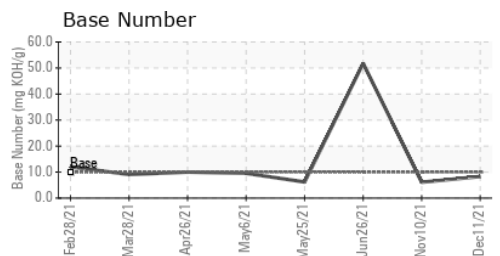
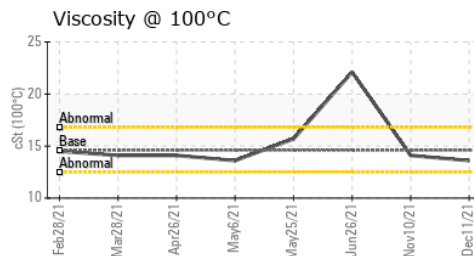
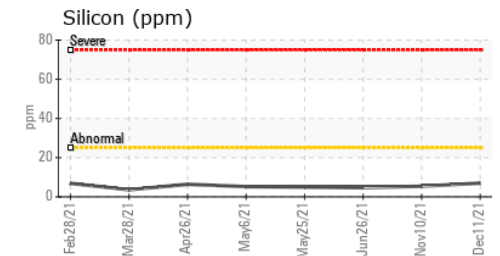
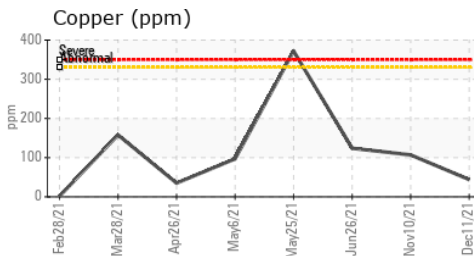
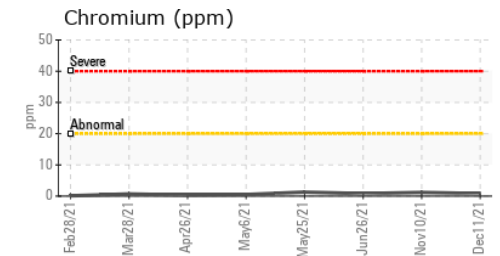
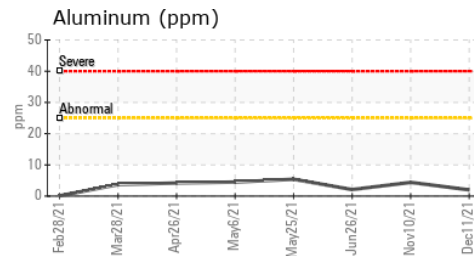
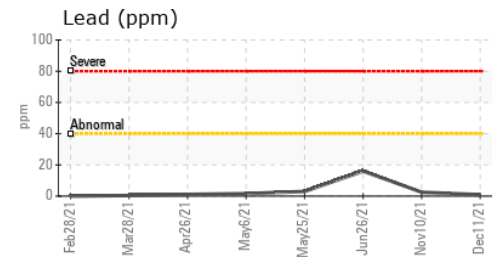
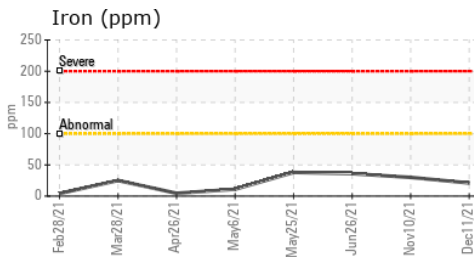
OIL ANALYSIS REPORT



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	14.6	13.6	14.1 ▲ 22.1

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : KL0009022
 Lab Number : 05424388
 Unique Number : 9778579
 Test Package : MOB1+
 Received : 16 Dec 2021
 Tested : 17 Dec 2021
 Diagnosed : 17 Dec 2021 - Angela Borella

CONOR
 JUAREZ 348
 HERMOSILLO,
 MX 83140
 Contact: EDUARDO GARCIA
 egarcia.comsa@gmail.com

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)

T: (526)622-1581 x:81

F: x: