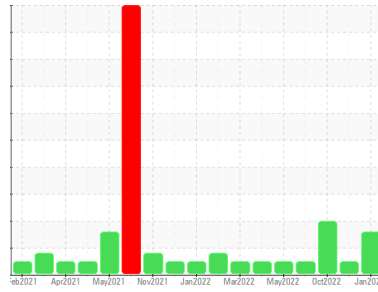




OIL ANALYSIS REPORT

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		KL0010216	KL0010205	KL0011191
Sample Date	Client Info		16 Jan 2023	15 Nov 2022	16 Oct 2022
Machine Age	hrs	Client Info	36860	36260	35980
Oil Age	hrs	Client Info	1200	600	320
Oil Changed	Client Info		Changed	Changed	Not Changd
Sample Status			NORMAL	NORMAL	ATTENTION

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.2	NEG	NEG	NEG
Glycol	WC Method		NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	▲ 118	76	21
Chromium	ppm	ASTM D5185m >20	2	2	2
Nickel	ppm	ASTM D5185m >2	0	0	<1
Titanium	ppm	ASTM D5185m >2	0	0	<1
Silver	ppm	ASTM D5185m >2	0	0	1
Aluminum	ppm	ASTM D5185m >25	3	3	3
Lead	ppm	ASTM D5185m >40	2	<1	<1
Copper	ppm	ASTM D5185m >330	23	19	8
Tin	ppm	ASTM D5185m >15	<1	<1	<1
Vanadium	ppm	ASTM D5185m	0	0	<1
Cadmium	ppm	ASTM D5185m	0	0	<1

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	85	356
Barium	ppm	ASTM D5185m	0	2	0
Molybdenum	ppm	ASTM D5185m	150	144	120
Manganese	ppm	ASTM D5185m	2	1	2
Magnesium	ppm	ASTM D5185m	715	678	670
Calcium	ppm	ASTM D5185m	1718	1659	1595
Phosphorus	ppm	ASTM D5185m 760	749	743	686
Zinc	ppm	ASTM D5185m 800	970	919	851
Sulfur	ppm	ASTM D5185m 3000	2750	2444	2846

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	7	7	6
Sodium	ppm	ASTM D5185m	2	<1	2
Potassium	ppm	ASTM D5185m >20	2	1	1
Fuel	%	ASTM D3524 >5	<1.0	<1.0	<1.0

INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	▲ 3.3	2.8	1.1
Nitration	Abs/cm	*ASTM D7624 >20	13.0	12.1	7.9
Sulfation	Abs/.1mm	*ASTM D7415 >30	30.9	28.8	26.3

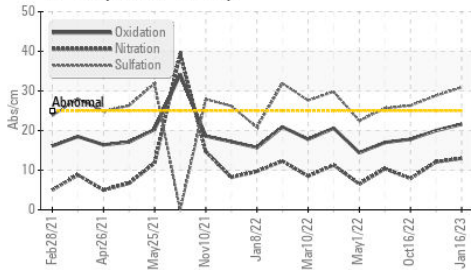
FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	21.6	20.0	17.8
Base Number (BN)	mg KOH/g	ASTM D2896 10	5.7	6.9	8.76

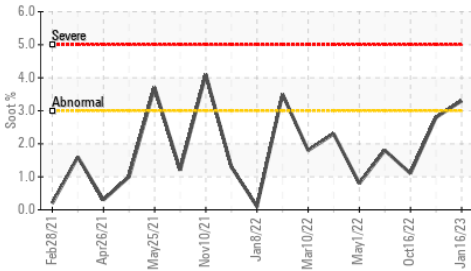


OIL ANALYSIS REPORT

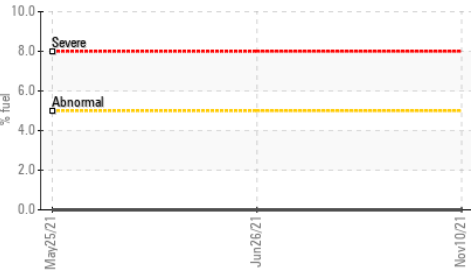
▲ FT-IR (Direct Trend)



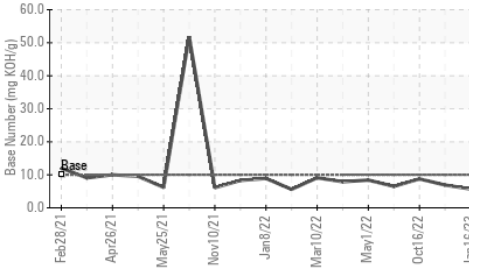
▲ Soot %



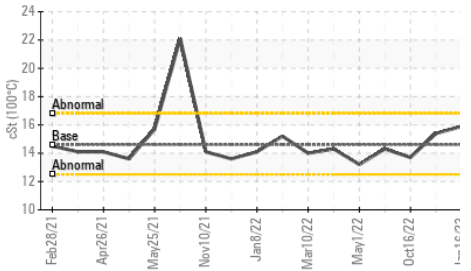
Fuel Dilution



Base Number



Viscosity @ 100°C

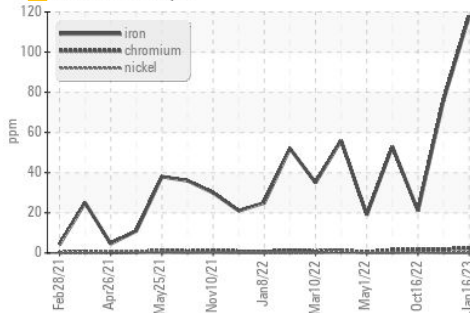


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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

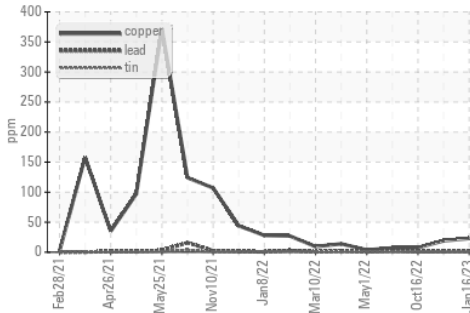
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14.6	15.9	15.4

GRAPHS

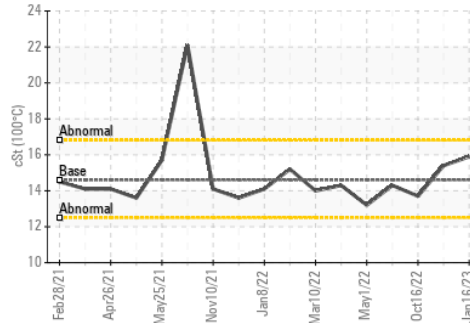
▲ Ferrous Alloys



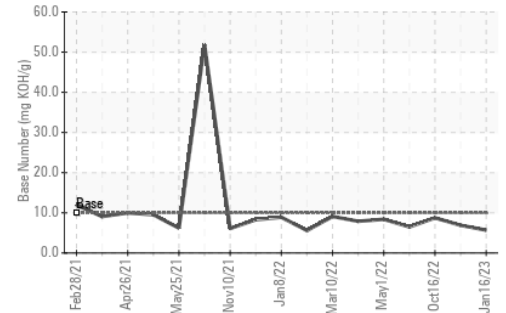
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : KL0010216

Lab Number : 05755976

Unique Number : 10320583

Test Package : FLEET (Additional Tests : FuelDilution)

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)

Received : 01 Feb 2023

Tested : 02 Feb 2023

Diagnosed : 02 Feb 2023 - Angela Borella

CONOR

JUAREZ 348

HERMOSILLO,

MX 83140

Contact: EDUARDO GARCIA

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T: (526)622-1581 x:81

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