

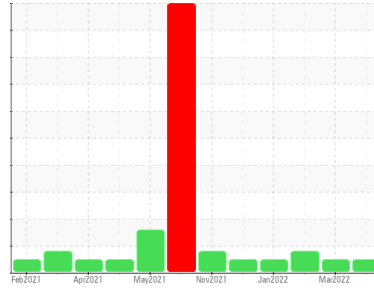


OIL ANALYSIS REPORT



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. (Customer Sample Comment: Estimated oil hours)

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		KL0009227	KL0009095	KL0009065
Sample Date	Client Info		08 Apr 2022	10 Mar 2022	09 Feb 2022
Machine Age	hrs	Client Info	35310	34960	33900
Oil Age	hrs	Client Info	586	236	1120
Oil Changed	Client Info		N/A	Not Changd	Not Changd
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
Glycol	WC Method		NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	56	35	52
Chromium	ppm	ASTM D5185m >20	1	<1	1
Nickel	ppm	ASTM D5185m >2	1	0	0
Titanium	ppm	ASTM D5185m >2	<1	<1	0
Silver	ppm	ASTM D5185m >2	0	0	<1
Aluminum	ppm	ASTM D5185m >25	4	5	4
Lead	ppm	ASTM D5185m >40	2	<1	3
Copper	ppm	ASTM D5185m >330	14	9	27
Tin	ppm	ASTM D5185m >15	2	<1	1
Antimony	ppm	ASTM D5185m	---	---	<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	133	230	62
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	121	131	109
Manganese	ppm	ASTM D5185m	1	<1	1
Magnesium	ppm	ASTM D5185m	773	693	710
Calcium	ppm	ASTM D5185m	1708	1585	1508
Phosphorus	ppm	ASTM D5185m 760	779	764	652
Zinc	ppm	ASTM D5185m 800	888	933	817
Sulfur	ppm	ASTM D5185m 3000	2354	2395	2042

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	7	5	6
Sodium	ppm	ASTM D5185m	2	<1	1
Potassium	ppm	ASTM D5185m >20	0	1	0

INFRA-RED

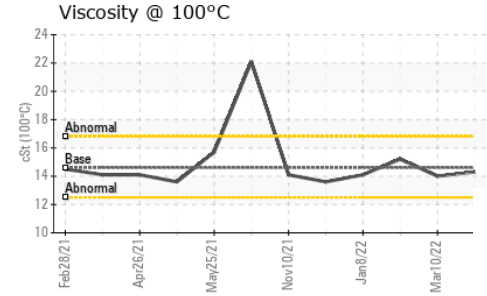
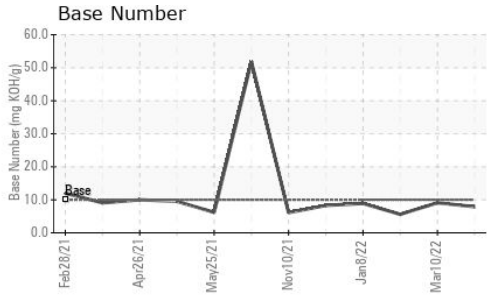
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	2.3	1.8	▲ 3.5
Nitration	Abs/cm	*ASTM D7624 >20	11.3	8.5	12.3
Sulfation	Abs/.1mm	*ASTM D7415 >30	29.8	27.6	31.9

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	20.6	17.8	20.9
Base Number (BN)	mg KOH/g	ASTM D2896 10	7.9	9.1	5.6



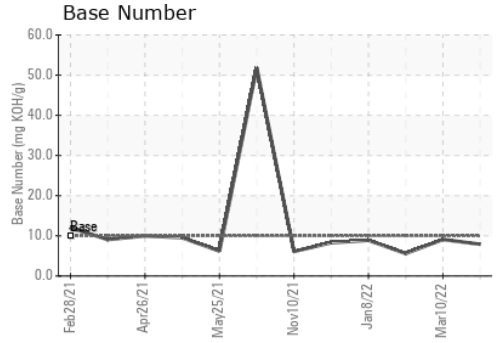
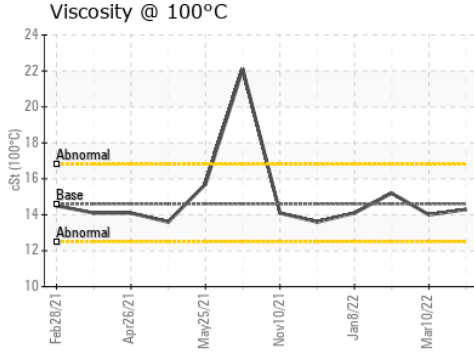
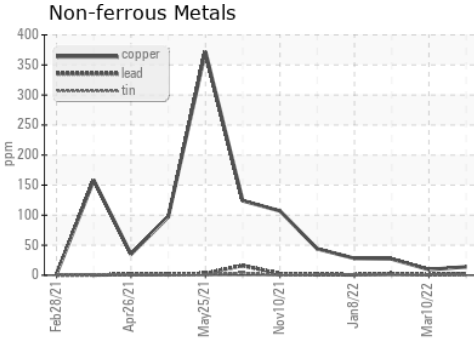
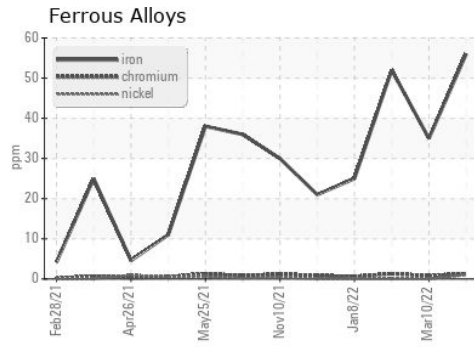
OIL ANALYSIS REPORT



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	14.3	14.0	15.2

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0009227
Lab Number : **05517847**
Unique Number : 9932126
Test Package : FLEET
Received : 13 Apr 2022
Tested : 14 Apr 2022
Diagnosed : 14 Apr 2022 - Angela Borella

CONOR
 JUAREZ 348
 HERMOSILLO,
 MX 83140
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Certificate L2367
 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)