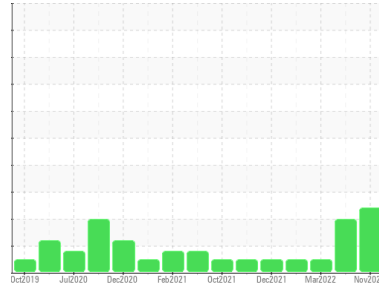




OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area
GUAY SON [CONHER]
Machine Id
MAIN ENGINE
Component
Bottom Diesel Engine
Fluid
Xtra Rev SAE 15W40 (160 LTR)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a high amount of particulates present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		KL0011230	KL0010141	KL0009211
Sample Date	Client Info		12 Nov 2022	05 Oct 2022	23 Mar 2022
Machine Age	hrs	Client Info	10850	10060	0
Oil Age	hrs	Client Info	790	233	0
Oil Changed	Client Info		Not Chngd	Not Chngd	N/A
Sample Status			ABNORMAL	ATTENTION	NORMAL

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	30	18	15
Chromium	ppm	ASTM D5185m >20	1	<1	<1
Nickel	ppm	ASTM D5185m >4	<1	0	0
Titanium	ppm	ASTM D5185m	<1	<1	<1
Silver	ppm	ASTM D5185m >3	0	0	<1
Aluminum	ppm	ASTM D5185m >20	2	2	2
Lead	ppm	ASTM D5185m >40	7	3	2
Copper	ppm	ASTM D5185m >330	5	3	2
Tin	ppm	ASTM D5185m >15	3	2	1
Antimony	ppm	ASTM D5185m	---	---	---
Vanadium	ppm	ASTM D5185m	0	0	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	116	172	271
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	75	87	102
Manganese	ppm	ASTM D5185m	<1	<1	<1
Magnesium	ppm	ASTM D5185m	330	361	498
Calcium	ppm	ASTM D5185m	1803	1659	1365
Phosphorus	ppm	ASTM D5185m	781	877	816
Zinc	ppm	ASTM D5185m	933	1030	913
Sulfur	ppm	ASTM D5185m	3439	3545	2523

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	8	8	8
Sodium	ppm	ASTM D5185m	6	2	3
Potassium	ppm	ASTM D5185m >20	6	2	0

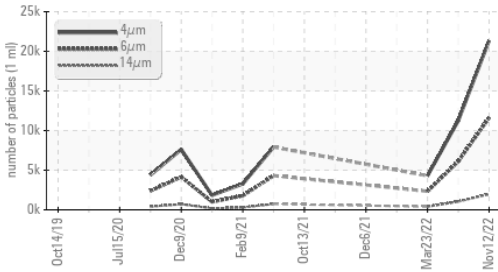
INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	0.5	0.4	0.3
Nitration	Abs/cm	*ASTM D7624 >20	13.0	10.1	8.8
Sulfation	Abs/.1mm	*ASTM D7415 >30	26.1	22.6	22.3

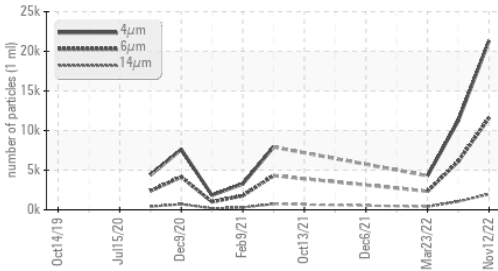


OIL ANALYSIS REPORT

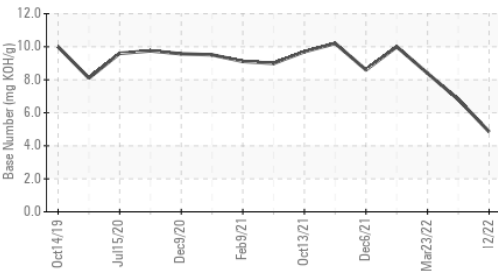
▲ Particle Trend



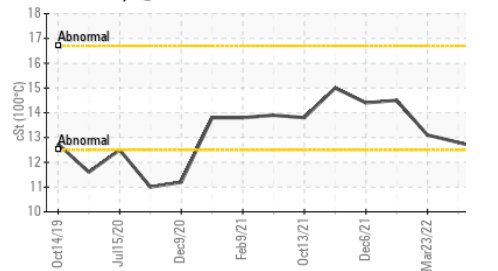
▲ Particle Trend



Base Number



Viscosity @ 100°C



FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		21338	11244	4294
Particles >6µm	ASTM D7647	>5000	▲ 11624	▲ 6125	2339
Particles >14µm	ASTM D7647	>640	▲ 1978	▲ 1042	398
Particles >21µm	ASTM D7647	>160	▲ 666	▲ 351	134
Particles >38µm	ASTM D7647	>40	▲ 103	▲ 54	21
Particles >71µm	ASTM D7647	>10	▲ 11	▲ 6	2
Oil Cleanliness	ISO 4406 (c)	>19/16	▲ 21/18	▲ 20/17	18/16

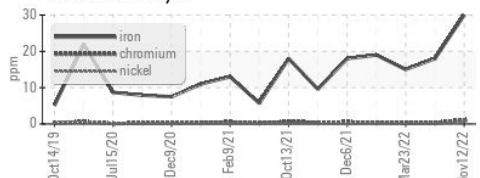
FLUID DEGRADATION	method	limit/base	current	history1	history2
Oxidation	Abs./1mm *ASTM D7414	>25	24.7	18.3	18.5
Base Number (BN)	mg KOH/g ASTM D2896		4.85	6.81	8.39

VISUAL	method	limit/base	current	history1	history2
White Metal	scalar *Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar *Visual	NONE	NONE	NONE	NONE
Precipitate	scalar *Visual	NONE	NONE	NONE	NONE
Silt	scalar *Visual	NONE	NONE	NONE	NONE
Debris	scalar *Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar *Visual	NONE	NONE	NONE	NONE
Appearance	scalar *Visual	NORML	NORML	NORML	NORML
Odor	scalar *Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar *Visual	>0.2	NEG	NEG	NEG
Free Water	scalar *Visual		NEG	NEG	NEG

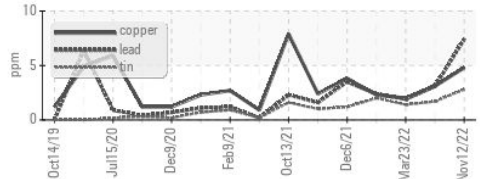
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt ASTM D445		12.5	12.8	13.1

GRAPHS

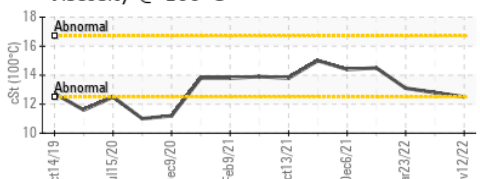
Ferrous Alloys



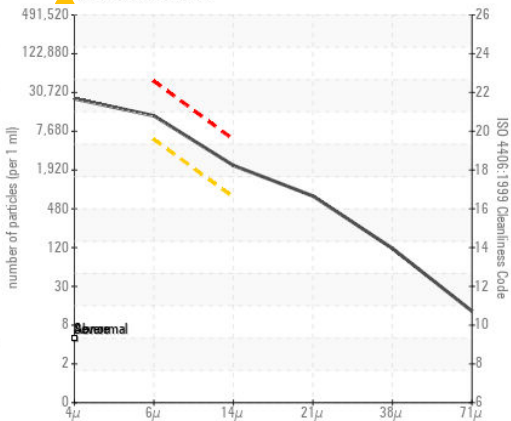
Non-ferrous Metals



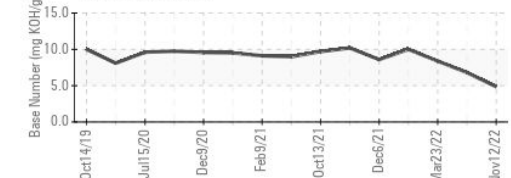
Viscosity @ 100°C



▲ Particle Count



Base Number



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0011230 **Received** : 25 Nov 2022
Lab Number : **05703102** **Diagnosed** : 29 Nov 2022
Unique Number : 10232676 **Diagnostician** : Jonathan Hester
Test Package : MOB 2 (Additional Tests: PrtCount)

CONOR
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 HERMOSILLO,
 MX 83140
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 egarcia.comsa@gmail.com
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 F: x:

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)