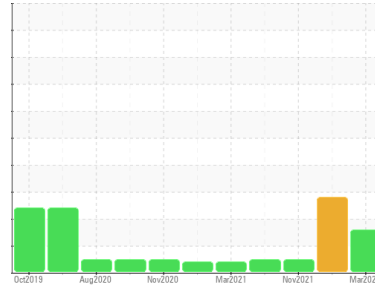




PROBLEM SUMMARY

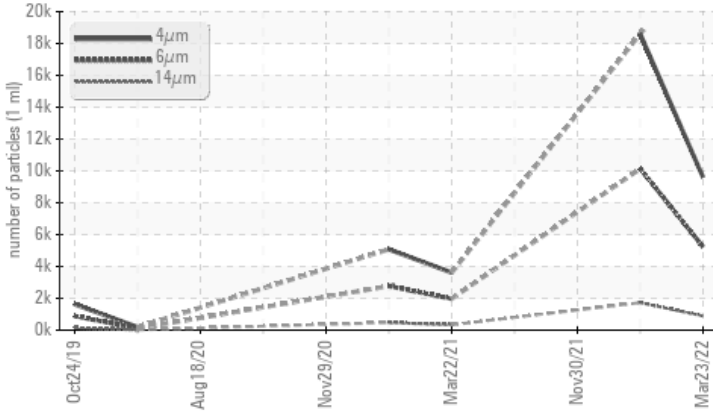
Sample Rating Trend



Area
GUAY SON [CONHER]
 Machine Id
IBACO NANDO
 Component
Bottom Diesel Engine
 Fluid
Xtra Rev 15W-40 (160 LTR)

COMPONENT CONDITION SUMMARY

▲ Particle Trend



RECOMMENDATION

No corrective action is recommended at this time.
 Resample at the next service interval to monitor. (Customer Sample Comment: Add particule count)

PROBLEMATIC TEST RESULTS

Sample Status			ATTENTION	ABNORMAL	NORMAL
Particles >6µm	ASTM D7647	>5000	▲ 5235	▲ 10135	---
Particles >14µm	ASTM D7647	>640	▲ 891	▲ 1725	---
Particles >21µm	ASTM D7647	>160	▲ 300	▲ 581	---
Particles >38µm	ASTM D7647	>40	▲ 46	▲ 90	---
Oil Cleanliness	ISO 4406 (c)	>19/16	▲ 20/17	▲ 21/18	---

Customer Id: CONHERKL
 Sample No.: KL0009215
 Lab Number: 05505980
 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Doug Bogart +1 (800)237-1369 x4016
dougb@wearcheckusa.com

To change component or sample information:
 Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

24 Feb 2022 Diag: Jonathan Hester

DEGRADATION



We recommend that you drain the oil and perform a filter service on this component if not already done. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates present in the oil. The BN level is low. The condition of the oil is acceptable for the time in service.

view report



30 Nov 2021 Diag: Angela Borella

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

view report



19 Oct 2021 Diag: Jonathan Hester

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

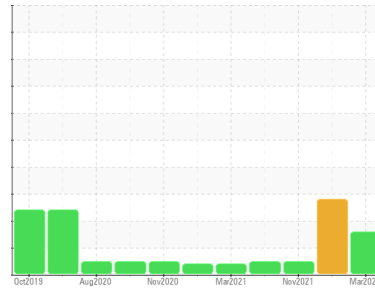
view report





OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area
GUAY SON [CONHER]
Machine Id
IBACO NANDO
Component
Bottom Diesel Engine
Fluid
Xtra Rev 15W-40 (160 LTR)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor. (Customer Sample Comment: Add particule count)

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of particulates present 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	history 1	history 2
Sample Number	Client Info		KL0009215	KL0009127	KL0009004
Sample Date	Client Info		23 Mar 2022	24 Feb 2022	30 Nov 2021
Machine Age	hrs	Client Info	0	8994	8020
Oil Age	hrs	Client Info	447	2140	1166
Oil Changed	Client Info		N/A	Not Changd	Not Changd
Sample Status			ATTENTION	ABNORMAL	NORMAL

CONTAMINATION

	method	limit/base	current	history 1	history 2
Fuel	WC Method	>5	<1.0	<1.0	<1.0
Glycol	WC Method		NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m >100	63	56	24
Chromium	ppm	ASTM D5185m >20	5	6	1
Nickel	ppm	ASTM D5185m >4	0	<1	0
Titanium	ppm	ASTM D5185m	0	0	<1
Silver	ppm	ASTM D5185m >3	<1	0	<1
Aluminum	ppm	ASTM D5185m >20	6	6	3
Lead	ppm	ASTM D5185m >40	6	4	1
Copper	ppm	ASTM D5185m >330	72	93	80
Tin	ppm	ASTM D5185m >15	1	1	<1
Antimony	ppm	ASTM D5185m	---	<1	0
Vanadium	ppm	ASTM D5185m	0	0	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	63	28	122
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	114	115	116
Manganese	ppm	ASTM D5185m	<1	<1	<1
Magnesium	ppm	ASTM D5185m	566	562	508
Calcium	ppm	ASTM D5185m	1669	1679	1657
Phosphorus	ppm	ASTM D5185m	901	885	899
Zinc	ppm	ASTM D5185m	1080	1161	1049
Sulfur	ppm	ASTM D5185m	2650	2947	2584

CONTAMINANTS

	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m >25	18	20	22
Sodium	ppm	ASTM D5185m	55	52	29
Potassium	ppm	ASTM D5185m >20	4	6	3

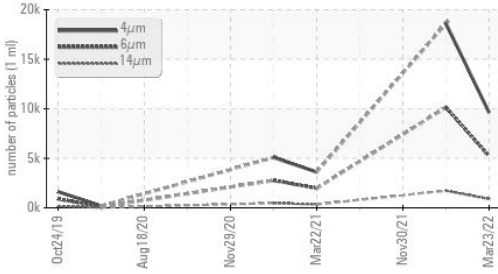
INFRA-RED

	method	limit/base	current	history 1	history 2
Soot %	%	*ASTM D7844 >3	1.2	1.2	0.7
Nitration	Abs/cm	*ASTM D7624 >20	11.0	10.4	9.3
Sulfation	Abs/.1mm	*ASTM D7415 >30	30.1	30.6	26.5

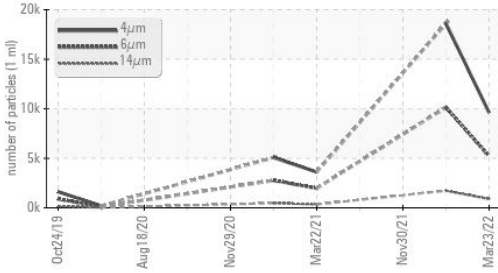


OIL ANALYSIS REPORT

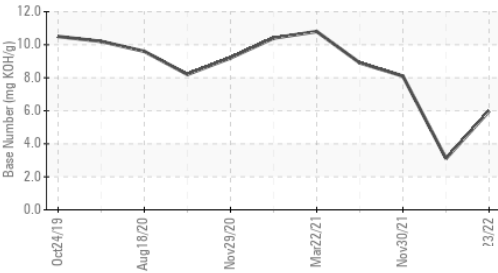
▲ Particle Trend



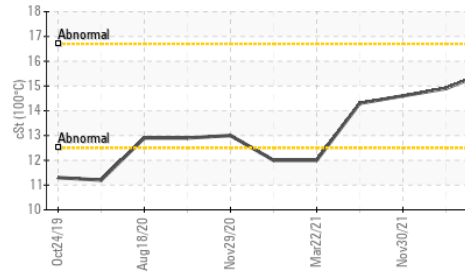
▲ Particle Trend



Base Number



Viscosity @ 100°C



FLUID CLEANLINESS	method	limit/base	current	history 1	history 2
Particles >4µm	ASTM D7647		9609	18604	---
Particles >6µm	ASTM D7647	>5000	▲ 5235	▲ 10135	---
Particles >14µm	ASTM D7647	>640	▲ 891	▲ 1725	---
Particles >21µm	ASTM D7647	>160	▲ 300	▲ 581	---
Particles >38µm	ASTM D7647	>40	▲ 46	▲ 90	---
Particles >71µm	ASTM D7647	>10	5	9	---
Oil Cleanliness	ISO 4406 (c)	>19/16	▲ 20/17	▲ 21/18	---

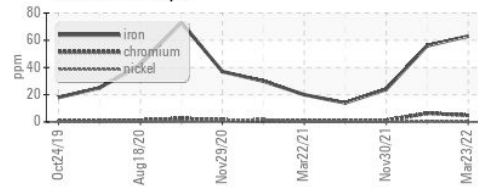
FLUID DEGRADATION	method	limit/base	current	history 1	history 2
Oxidation	Abs/.1mm *ASTM D7414	>25	24.9	24.8	19.8
Base Number (BN)	mg KOH/g ASTM D2896		5.98	▲ 3.11	8.1

VISUAL	method	limit/base	current	history 1	history 2
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

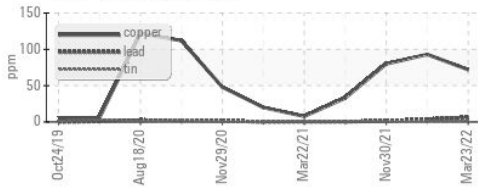
FLUID PROPERTIES	method	limit/base	current	history 1	history 2
Visc @ 100°C	cSt ASTM D445		15.6	14.9	14.6

GRAPHS

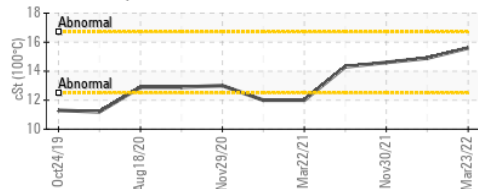
Ferrous Alloys



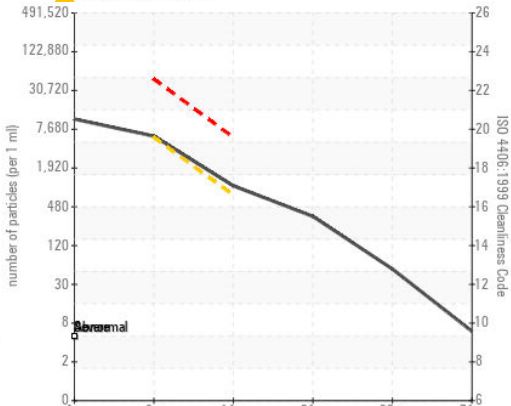
Non-ferrous Metals



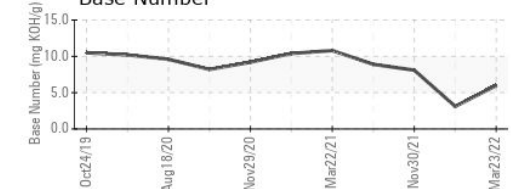
Viscosity @ 100°C



▲ Particle Count



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0009215 **Received** : 30 Mar 2022
Lab Number : 05505980 **Diagnosed** : 31 Mar 2022
Unique Number : 9915254 **Diagnostician** : Doug Bogart
Test Package : FLEET (Additional Tests: PrtCount)

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)

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