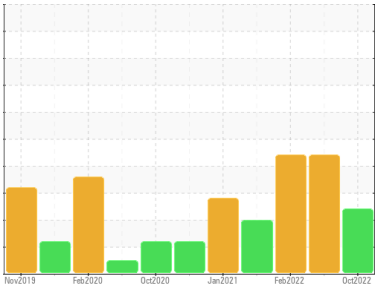
OIL ANALYSIS REPORT

Sample Rating Trend



FUEL

Area
IBACO [CONHER]
Machine Id
BM COZAR VI
Component
Bottom Diesel Engine
Fluid
Xtra Rev 15W40 (160 LTR)

DIAGNOSIS

Recommendation
We advise that you check the fuel injection system. We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition.

Wear
All component wear rates are normal.

Contamination
There is a high amount of fuel present in the oil. The amount and size of particulates present in the system are acceptable.

Fluid Condition
Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION		method	limit/base	current	history 1	history 2
Sample Number		Client Info		**KL0011173**	KL0009265	KL0007700
Sample Date		Client Info		**14 Oct 2022**	31 Mar 2022	15 Feb 2022
Machine Age	hrs	Client Info		**0**	0	13385
Oil Age	hrs	Client Info		**0**	0	2573
Oil Changed		Client Info		**N/A**	N/A	Not Changd
Sample Status				**SEVERE**	SEVERE	SEVERE

CONTAMINATION		method	limit/base	current	history 1	history 2
Glycol		WC Method		**NEG**	NEG	NEG

WEAR METALS		method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>100	**7**	16	19
Chromium	ppm	ASTM D5185m	>20	**<1**	<1	<1
Nickel	ppm	ASTM D5185m	>2	**0**	0	<1
Titanium	ppm	ASTM D5185m	>2	**0**	0	<1
Silver	ppm	ASTM D5185m	>2	**0**	0	0
Aluminum	ppm	ASTM D5185m	>25	**1**	2	2
Lead	ppm	ASTM D5185m	>40	**<1**	<1	<1
Copper	ppm	ASTM D5185m	>330	**<1**	3	3
Tin	ppm	ASTM D5185m	>15	**<1**	<1	<1
Antimony	ppm	ASTM D5185m		**---**	---	<1
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		**0**	180	167
Barium	ppm	ASTM D5185m		**0**	0	0
Molybdenum	ppm	ASTM D5185m		**<1**	81	81
Manganese	ppm	ASTM D5185m		**<1**	<1	<1
Magnesium	ppm	ASTM D5185m		**5**	429	443
Calcium	ppm	ASTM D5185m		**2787**	2040	2064
Phosphorus	ppm	ASTM D5185m		**1072**	931	981
Zinc	ppm	ASTM D5185m		**1267**	1074	1099
Sulfur	ppm	ASTM D5185m		**4461**	2971	3150

CONTAMINANTS		method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	**4**	7	9
Sodium	ppm	ASTM D5185m		**0**	1	4
Potassium	ppm	ASTM D5185m	>20	**0**	0	2
Fuel	%	ASTM D3524	>5	**11.5**	9.3	9.8

INFRA-RED		method	limit/base	current	history 1	history 2
Soot %	%	*ASTM D7844	>3	**0.3**	0.5	0.5
Nitration	Abs/cm	*ASTM D7624	>20	**8.0**	10.3	11.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	**15.8**	21.9	24.1

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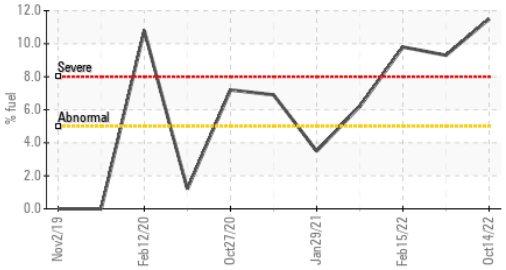
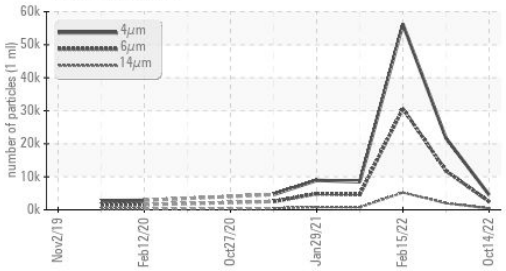
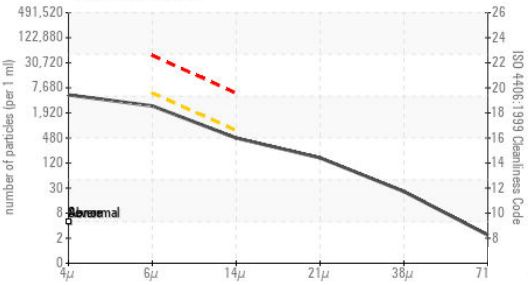
Fuel Dilution



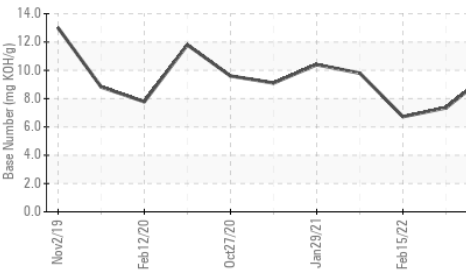
Particle Trend



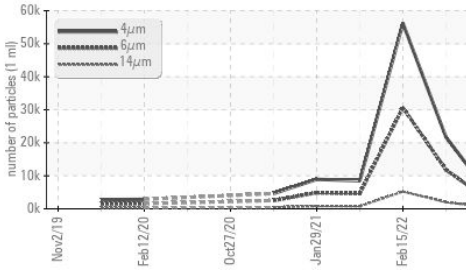
Particle Count



Base Number



Particle Trend



FLUID CLEANLINESS		method	limit/base	current	history 1	history 2
Particles >4µm		ASTM D7647		**4530**	21714	56246
Particles >6µm		ASTM D7647	>5000	**2468**	▲ 11829	▲ 30640
Particles >14µm		ASTM D7647	>640	**420**	▲ 2013	▲ 5215
Particles >21µm		ASTM D7647	>160	**141**	▲ 678	▲ 1756
Particles >38µm		ASTM D7647	>40	**22**	▲ 105	▲ 271
Particles >71µm		ASTM D7647	>10	**2**	▲ 11	▲ 28
Oil Cleanliness		ISO 4406 (c)	>19/16	**18/16**	▲ 21/18	▲ 22/20

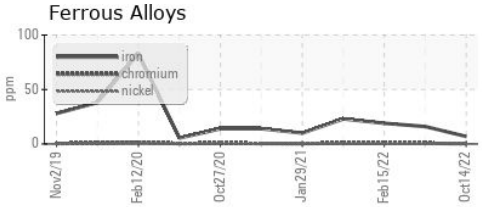
FLUID DEGRADATION		method	limit/base	current	history 1	history 2
Oxidation	Abs/.1mm	*ASTM D7414	>25	**8.6**	19.5	22.1
Base Number (BN)	mg KOH/g	ASTM D2896		**9.77**	7.35	6.72

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

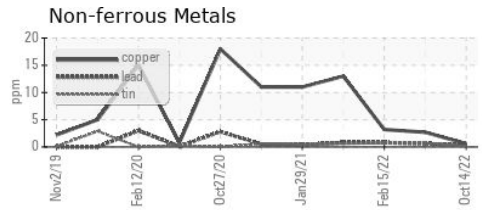
FLUID PROPERTIES		method	limit/base	current	history 1	history 2
Visc @ 100°C	cSt	ASTM D445		▲ **9.5**	▲ 11.7	▲ 12.1

GRAPHS

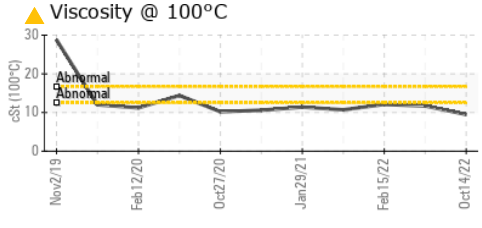
Ferrous Alloys



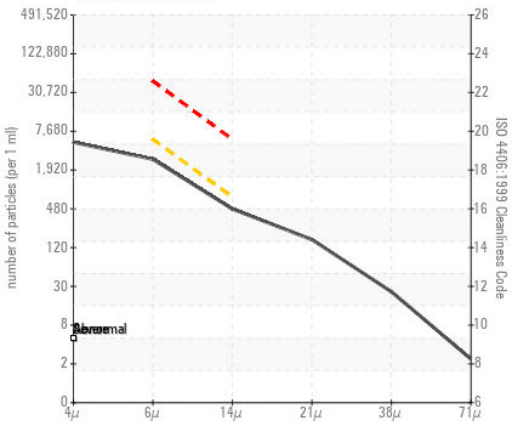
Non-ferrous Metals



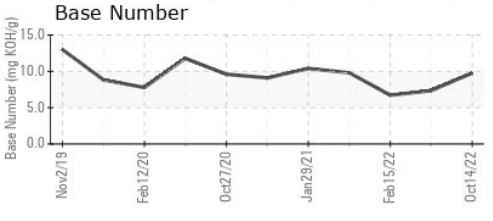
Viscosity @ 100°C



Particle Count



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0011173 **Received** : 21 Oct 2022
Lab Number : 05673596 **Diagnosed** : 25 Oct 2022
Unique Number : 10183166 **Diagnostician** : Don Baldridge
Test Package : MOB 2 (Additional Tests: PercentFuel, 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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