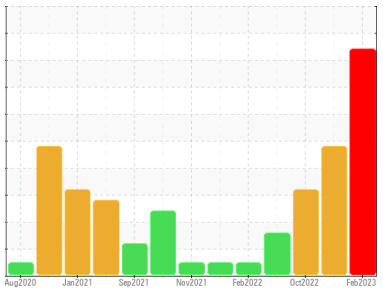
OIL ANALYSIS REPORT

Sample Rating Trend



GLYCOL

Area
GUAY SON [CONHER]
Machine Id
Máquina principal Mantito I
Component
Diesel Engine
Fluid
Xtra Rev 15W40 (160 LTR)

DIAGNOSIS

Recommendation

We advise that you check for possible coolant leak. Check for low coolant level. We advise that you check the fuel injection system. We recommend you service the filters on this component. We recommend an early resample to monitor this condition. (Customer Sample Comment: Looking for fuel please add particule count)

Wear

All component wear rates are normal.

Contamination

Sodium and/or potassium levels are high. There is a high amount of particulates present in the oil. There is a moderate amount of fuel present in the oil.

Fluid Condition

Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**KL0010243**	KL0011233	KL0011198
Sample Date		Client Info		**23 Feb 2023**	12 Nov 2022	18 Oct 2022
Machine Age	hrs	Client Info		**0**	0	8998
Oil Age	hrs	Client Info		**0**	0	257
Oil Changed		Client Info		**N/A**	N/A	Not Changd
Sample Status				**ABNORMAL**	ABNORMAL	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	**42**	16	23
Chromium	ppm	ASTM D5185m	>20	**<1**	<1	2
Nickel	ppm	ASTM D5185m	>4	**<1**	<1	1
Titanium	ppm	ASTM D5185m		**0**	0	<1
Silver	ppm	ASTM D5185m	>3	**<1**	<1	1
Aluminum	ppm	ASTM D5185m	>20	**2**	1	2
Lead	ppm	ASTM D5185m	>40	**3**	6	4
Copper	ppm	ASTM D5185m	>330	**20**	58	24
Tin	ppm	ASTM D5185m	>15	**1**	1	3
Vanadium	ppm	ASTM D5185m		**0**	0	<1
Cadmium	ppm	ASTM D5185m		**<1**	0	<1

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**5**	2	0
Barium	ppm	ASTM D5185m		**2**	0	0
Molybdenum	ppm	ASTM D5185m		**33**	31	24
Manganese	ppm	ASTM D5185m		**<1**	<1	2
Magnesium	ppm	ASTM D5185m		**11**	12	38
Calcium	ppm	ASTM D5185m		**3042**	2918	2858
Phosphorus	ppm	ASTM D5185m		**1128**	1124	1160
Zinc	ppm	ASTM D5185m		**1306**	1350	1408
Sulfur	ppm	ASTM D5185m		**5182**	4438	4662

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	**11**	8	21
Sodium	ppm	ASTM D5185m		▲ **42**	▲ 52	24
Potassium	ppm	ASTM D5185m	>20	▲ **245**	▲ 194	99
Fuel	%	ASTM D3524	>5	▲ **5.5**	▲ 5.2	▲ 3.4
Glycol	%	*ASTM D2982		▲ **0.06**	NEG	NEG

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	**0.4**	0.2	0.7
Nitration	Abs/cm	*ASTM D7624	>20	**10.1**	6.3	7.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	**17.1**	15.0	17.1

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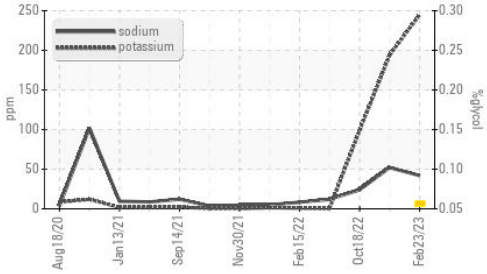
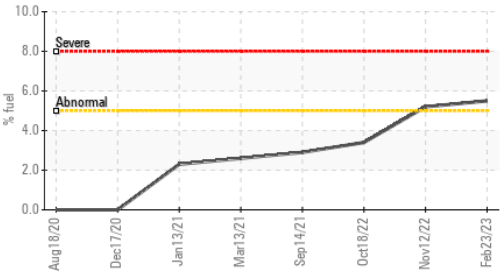
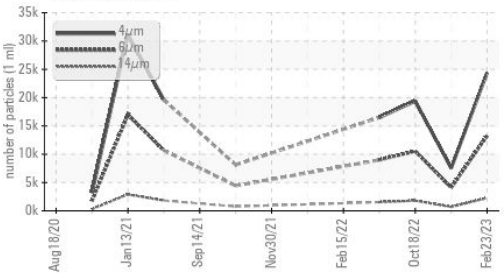
Glycol Contamination



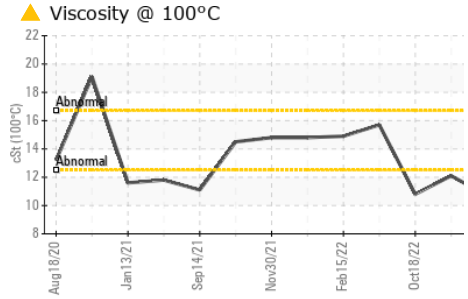
Fuel Dilution



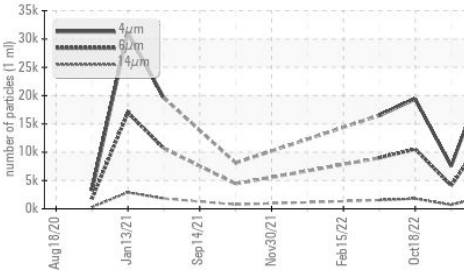
Particle Trend



Viscosity @ 100°C



Particle Trend



FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		**24376**	7530	19376
Particles >6µm		ASTM D7647	>5000	▲ **13279**	4102	▲ 10555
Particles >14µm		ASTM D7647	>640	▲ **2260**	▲ 698	▲ 1796
Particles >21µm		ASTM D7647	>160	▲ **761**	▲ 235	▲ 605
Particles >38µm		ASTM D7647	>40	▲ **118**	36	▲ 93
Particles >71µm		ASTM D7647	>10	▲ **12**	4	10
Oil Cleanliness		ISO 4406 (c)	>19/16	▲ **21/18**	▲ 19/17	▲ 21/18

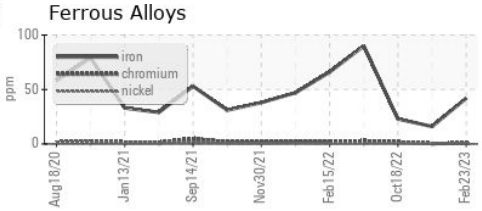
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	**10.1**	7.5	8.6
Base Number (BN)	mg KOH/g	ASTM D2896		**12.8**	10.9	10.0

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

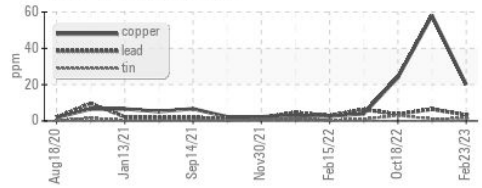
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445		▲ **10.7**	▲ 12.1	▲ 10.8

GRAPHS

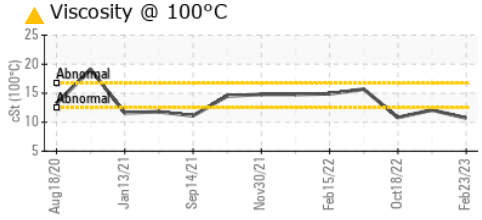
Ferrous Alloys



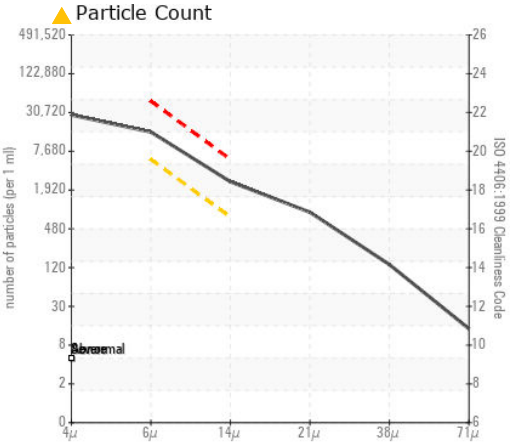
Non-ferrous Metals



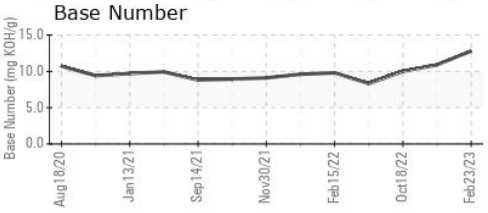
Viscosity @ 100°C



Particle Count



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0010243 **Received** : 28 Feb 2023
Lab Number : 05779242 **Diagnosed** : 05 Mar 2023
Unique Number : 10358912 **Diagnostician** : Doug Bogart
Test Package : MOB 2 (Additional Tests: Glycol, 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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