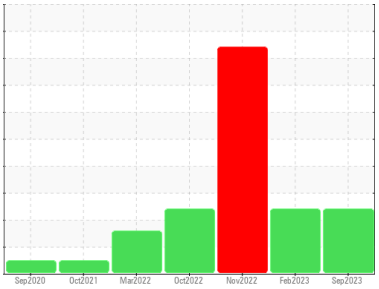
PROBLEM SUMMARY

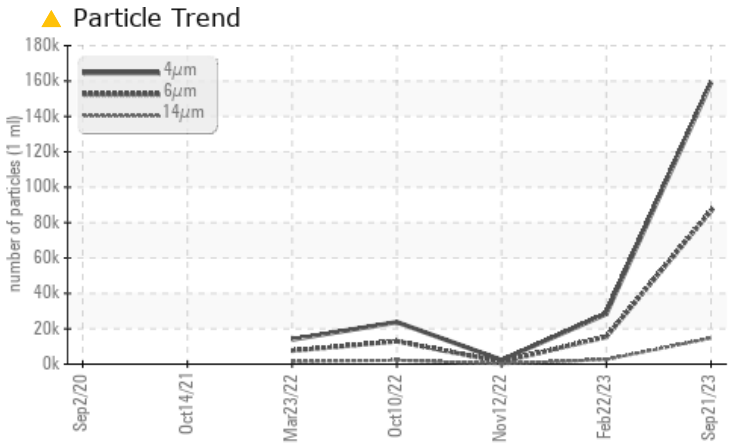
Area
GUAY SON [CONHER]
Machine Id
IBACO BM COZAR XIX
Component
Auxiliary Auxiliary Engine
Fluid
XTRA REV 15W40 (8 LTR)

Sample Rating Trend



ISO

COMPONENT CONDITION SUMMARY



RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. (Customer Sample Comment: Please add particule count)

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	ABNORMAL	SEVERE
Particles >6µm		ASTM D7647	>5000	▲ **86671**	▲ 15469	1268
Particles >14µm		ASTM D7647	>640	▲ **14750**	▲ 2633	216
Particles >21µm		ASTM D7647	>160	▲ **4969**	▲ 887	73
Particles >38µm		ASTM D7647	>40	▲ **767**	▲ 137	11
Particles >71µm		ASTM D7647	>10	▲ **78**	▲ 14	1
Oil Cleanliness		ISO 4406 (c)	>19/16	▲ **24/21**	▲ 21/19	17/15

Customer Id: CONHERKL
Sample No.: KL0012273
Lab Number: 05964777
Test Package: FLEET

To manage this report scan the QR code

To discuss the diagnosis or test data:
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angela.borella@wearcheckusa.com

To change component or sample information:
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customerservice@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Fluid	---	---	?	Oil and filter change at the time of sampling has been noted.
Change Filter	---	---	?	Oil and filter change at the time of sampling has been noted.

HISTORICAL DIAGNOSIS

22 Feb 2023 Diag: Doug Bogart

ISO

We recommend you service the filters on this component. 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 water content is negligible. Test for glycol is negative. 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

12 Nov 2022 Diag: Jonathan Hester

GLYCOL

We advise that you check for the source of the coolant leak. Check for low coolant level. 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.All component wear rates are normal. Sodium and/or potassium levels are high. There is a high concentration of glycol present in the oil. The amount and size of particulates present in the system are acceptable. The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.

view report

10 Oct 2022 Diag: Doug Bogart

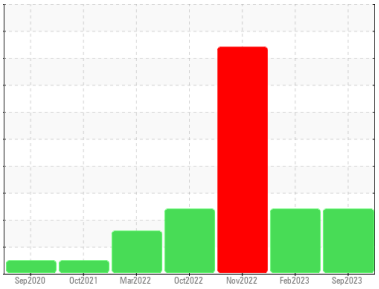
ISO

We recommend you service the filters on this component. 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 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 BM COZAR XIX
Component
Auxiliary Auxiliary Engine
Fluid
XTRA REV 15W40 (8 LTR)

DIAGNOSIS

Recommendation
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. (Customer Sample Comment: Please add particule count)

Wear
All component wear rates are normal.

Contamination
There is a high amount of particulates present in the oil. The water content is negligible.

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		**KL0012273**	KL0010239	KL0011228
Sample Date		Client Info		**21 Sep 2023**	22 Feb 2023	12 Nov 2022
Machine Age	hrs	Client Info		**7724**	19107	0
Oil Age	hrs	Client Info		**24**	144	0
Oil Changed		Client Info		**Changed**	Not Changd	N/A
Sample Status				**ABNORMAL**	ABNORMAL	SEVERE

CONTAMINATION		method	limit/base	current	history1	history2
Fuel		WC Method	>4.0	**<1.0**	<1.0	<1.0
Glycol		WC Method		**NEG**	0.0	0.20

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	**83**	18	83
Chromium	ppm	ASTM D5185m	>20	**16**	1	4
Nickel	ppm	ASTM D5185m	>2	**0**	0	<1
Titanium	ppm	ASTM D5185m	>2	**<1**	0	0
Silver	ppm	ASTM D5185m	>2	**0**	0	<1
Aluminum	ppm	ASTM D5185m	>20	**11**	3	5
Lead	ppm	ASTM D5185m	>40	**<1**	1	4
Copper	ppm	ASTM D5185m	>330	**6**	1	7
Tin	ppm	ASTM D5185m	>15	**8**	<1	4
Vanadium	ppm	ASTM D5185m		**<1**	0	0
Cadmium	ppm	ASTM D5185m		**0**	0	<1

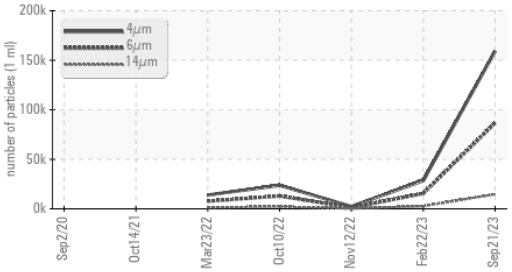
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**179**	0	11
Barium	ppm	ASTM D5185m		**0**	<1	0
Molybdenum	ppm	ASTM D5185m		**26**	2	208
Manganese	ppm	ASTM D5185m		**2**	<1	1
Magnesium	ppm	ASTM D5185m		**141**	8	45
Calcium	ppm	ASTM D5185m		**2350**	3435	1521
Phosphorus	ppm	ASTM D5185m		**1118**	1166	852
Zinc	ppm	ASTM D5185m		**1383**	1437	1064
Sulfur	ppm	ASTM D5185m		**3991**	5016	3542

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	**22**	7	12
Sodium	ppm	ASTM D5185m		**7**	4	483
Potassium	ppm	ASTM D5185m	>20	**4**	21	2413

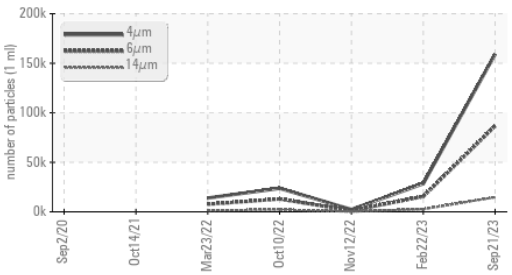
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		**0.1**	0.1	0.3
Nitration	Abs/cm	*ASTM D7624	>20	**5.2**	9.9	22.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	**16.0**	18.0	23.4

OIL ANALYSIS REPORT

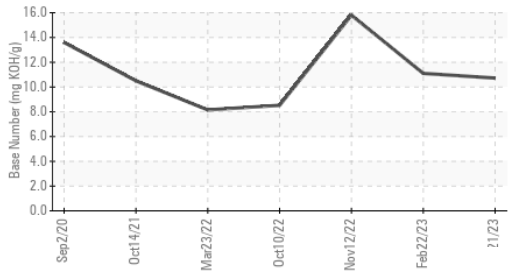
Particle Trend



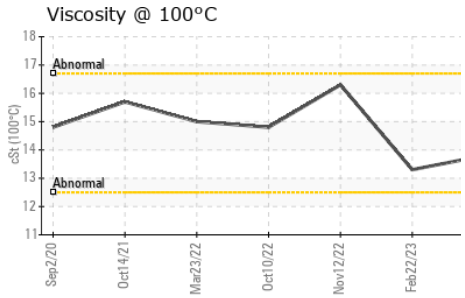
Particle Trend



Base Number



Viscosity @ 100°C



FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		**159099**	28396	2327
Particles >6µm		ASTM D7647	>5000	▲ **86671**	▲ 15469	1268
Particles >14µm		ASTM D7647	>640	▲ **14750**	▲ 2633	216
Particles >21µm		ASTM D7647	>160	▲ **4969**	▲ 887	73
Particles >38µm		ASTM D7647	>40	▲ **767**	▲ 137	11
Particles >71µm		ASTM D7647	>10	▲ **78**	▲ 14	1
Oil Cleanliness		ISO 4406 (c)	>19/16	▲ **24/21**	▲ 21/19	17/15

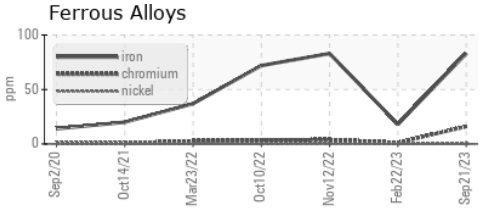
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	**10.1**	12.9	20.0
Base Number (BN)	mg KOH/g	ASTM D2896		**10.72**	11.1	15.8

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	>0.1	**NEG**	NEG	NEG
Free Water	scalar	*Visual		**NEG**	NEG	NEG

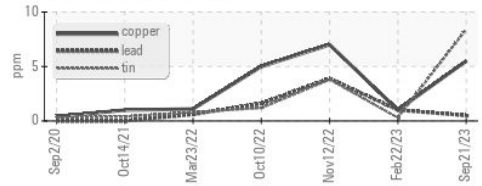
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445		**13.8**	13.3	16.3

GRAPHS

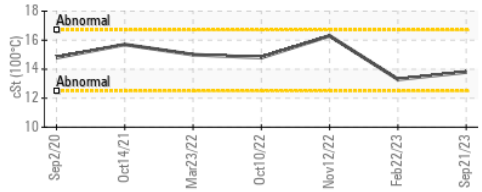
Ferrous Alloys



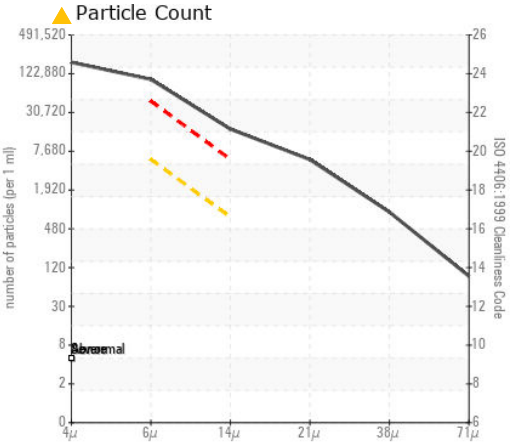
Non-ferrous Metals



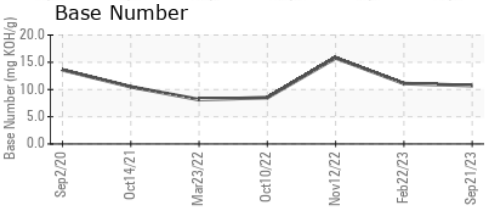
Viscosity @ 100°C



Particle Count



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0012273 **Received** : 29 Sep 2023
Lab Number : 05964777 **Diagnosed** : 02 Oct 2023
Unique Number : 10671328 **Diagnostician** : Angela Borella
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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