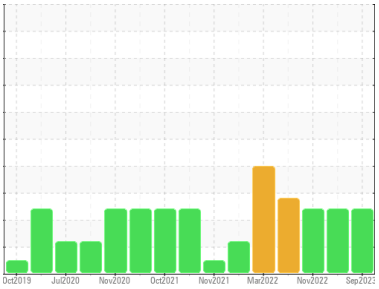
PROBLEM SUMMARY

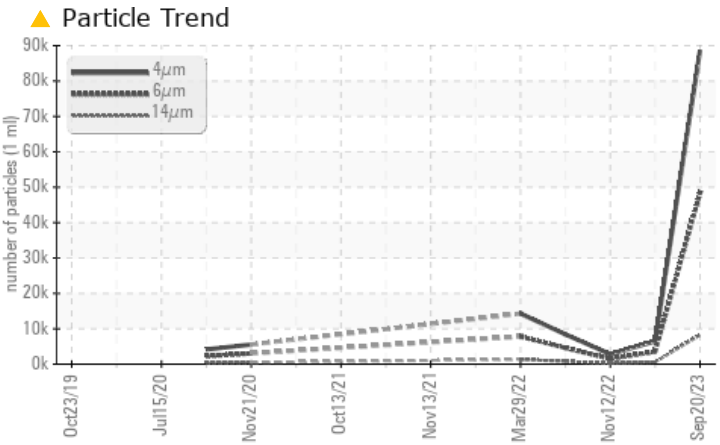
Sample Rating Trend



ISO

Area
IBACO [CONHER]
Machine Id
BM JLV II
Component
Bottom Diesel Engine
Fluid
XTRA REV 15W40 (160 LTR)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor. (Customer Sample Comment: Please Add particule count)

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	SEVERE	SEVERE
Particles >6µm		ASTM D7647	>5000	▲ **48283**	3531	1525
Particles >14µm		ASTM D7647	>640	▲ **8217**	601	260
Particles >21µm		ASTM D7647	>160	▲ **2768**	202	87
Particles >38µm		ASTM D7647	>40	▲ **427**	31	13
Particles >71µm		ASTM D7647	>10	▲ **44**	3	1
Oil Cleanliness		ISO 4406 (c)	>19/16	▲ **23/20**	19/16	18/15

Customer Id: CONHERKL
Sample No.: KL0012271
Lab Number: 05964776
Test Package: FLEET

To manage this report scan the QR code

To discuss the diagnosis or test data:
Angela Borella +1 800-237-1369
angela.borella@wearcheckusa.com

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

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Filter	---	---	?	We recommend you service the filters on this component.

HISTORICAL DIAGNOSIS

22 Feb 2023 Diag: Doug Bogart

FUEL

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.All component wear rates are normal. There is a high amount of fuel present in the oil. The amount and size of particulates present in the system are acceptable. Fuel is present in the oil and is lowering the viscosity. 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

12 Nov 2022 Diag: Jonathan Hester

FUEL

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.All component wear rates are normal. There is a high amount of fuel present in the oil. The amount and size of particulates present in the system are acceptable. Fuel is present in the oil and is lowering the viscosity. 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

06 Oct 2022 Diag: Doug Bogart

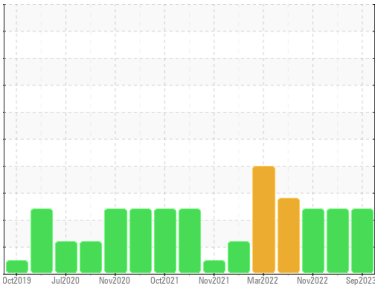
FUEL

We advise that you check the fuel injection system. Resample at the next service interval to monitor.All component wear rates are normal. There is a moderate amount of particulates present in the oil. There is a moderate amount of fuel present in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity.

view report

OIL ANALYSIS REPORT

Sample Rating Trend



ISO

Area
IBACO [CONHER]
Machine Id
BM JLV II
Component
Bottom Diesel Engine
Fluid
XTRA REV 15W40 (160 LTR)

DIAGNOSIS

Recommendation
We recommend you service the filters on this component. Resample at the next service interval to monitor. (Customer Sample Comment: Please Add particule count)

Wear
All component wear rates are normal.

Contamination
Fuel content negligible. There is a high 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	history1	history2
Sample Number		Client Info		**KL0012271**	KL0010234	KL0011214
Sample Date		Client Info		**20 Sep 2023**	22 Feb 2023	12 Nov 2022
Machine Age	hrs	Client Info		**11428**	11418	10348
Oil Age	hrs	Client Info		**10**	1818	748
Oil Changed		Client Info		**Not Changd**	Not Changd	Not Changd
Sample Status				**ABNORMAL**	SEVERE	SEVERE

CONTAMINATION		method	limit/base	current	history1	history2
Glycol		WC Method		**NEG**	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	**6**	73	42
Chromium	ppm	ASTM D5185m	>20	**0**	1	<1
Nickel	ppm	ASTM D5185m	>2	**0**	1	1
Titanium	ppm	ASTM D5185m	>2	**<1**	0	0
Silver	ppm	ASTM D5185m	>2	**0**	0	0
Aluminum	ppm	ASTM D5185m	>25	**3**	2	2
Lead	ppm	ASTM D5185m	>40	**<1**	1	<1
Copper	ppm	ASTM D5185m	>330	**4**	4	4
Tin	ppm	ASTM D5185m	>15	**<1**	<1	<1
Vanadium	ppm	ASTM D5185m		**<1**	0	0
Cadmium	ppm	ASTM D5185m		**0**	0	0

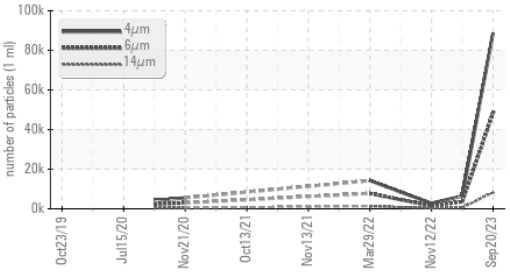
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**<1**	60	150
Barium	ppm	ASTM D5185m		**0**	<1	0
Molybdenum	ppm	ASTM D5185m		**6**	55	81
Manganese	ppm	ASTM D5185m		**<1**	<1	<1
Magnesium	ppm	ASTM D5185m		**8**	189	317
Calcium	ppm	ASTM D5185m		**2509**	2108	1597
Phosphorus	ppm	ASTM D5185m		**1098**	830	748
Zinc	ppm	ASTM D5185m		**1336**	1015	867
Sulfur	ppm	ASTM D5185m		**3745**	4003	3420

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	**15**	10	10
Sodium	ppm	ASTM D5185m		**10**	9	11
Potassium	ppm	ASTM D5185m	>20	**30**	6	3
Fuel	%	ASTM D3524	>5	**2.0**	13.7	15.4

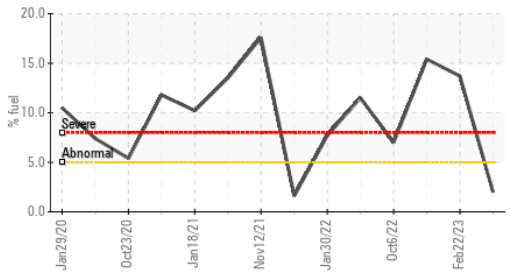
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	**0.1**	1.4	1
Nitration	Abs/cm	*ASTM D7624	>20	**4.5**	12.8	11.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	**12.3**	22.9	22.5

OIL ANALYSIS REPORT

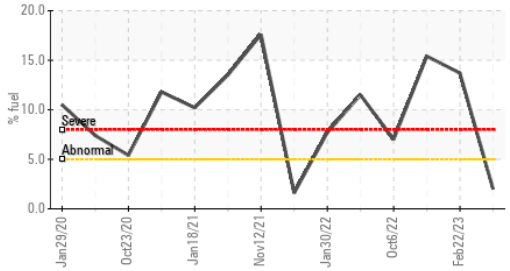
Particle Trend



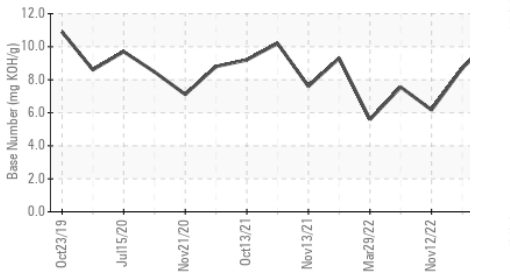
Fuel Dilution



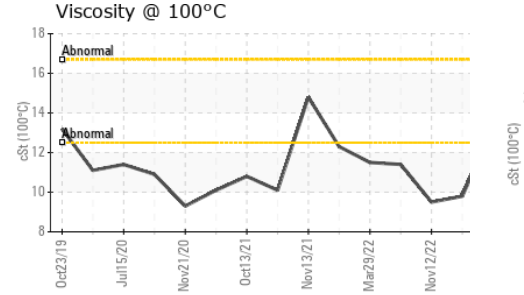
Fuel Dilution



Base Number



Viscosity @ 100°C



FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		**88632**	6481	2799
Particles >6µm		ASTM D7647	>5000	▲ **48283**	3531	1525
Particles >14µm		ASTM D7647	>640	▲ **8217**	601	260
Particles >21µm		ASTM D7647	>160	▲ **2768**	202	87
Particles >38µm		ASTM D7647	>40	▲ **427**	31	13
Particles >71µm		ASTM D7647	>10	▲ **44**	3	1
Oil Cleanliness		ISO 4406 (c)	>19/16	▲ **23/20**	19/16	18/15

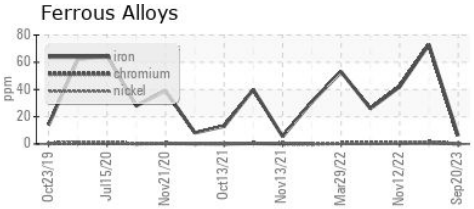
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	**5.7**	19.6	19.5
Base Number (BN)	mg KOH/g	ASTM D2896		**10.51**	8.7	6.17

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

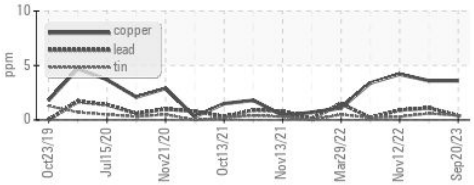
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445		**13.3**	▲ 9.8	▲ 9.5

GRAPHS

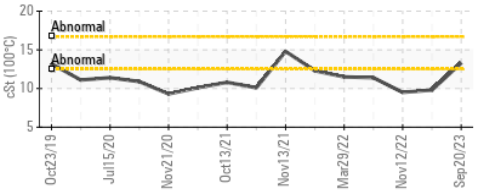
Ferrous Alloys



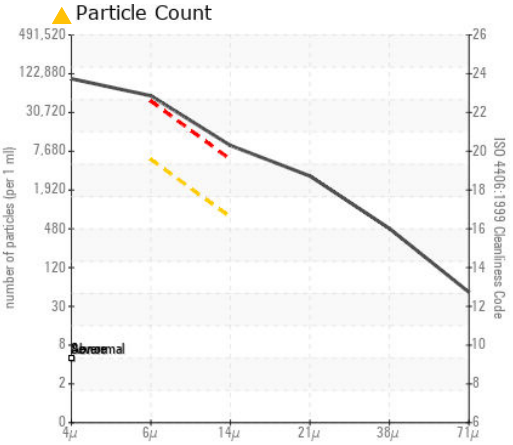
Non-ferrous Metals



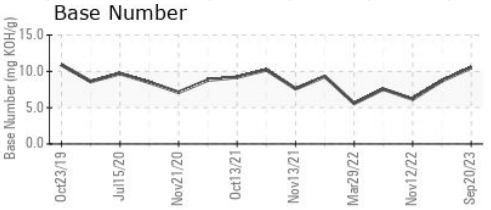
Viscosity @ 100°C



Particle Count



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0012271 **Received** : 29 Sep 2023
Lab Number : 05964776 **Diagnosed** : 03 Oct 2023
Unique Number : 10671327 **Diagnostician** : Angela Borella
Test Package : FLEET (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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