MOB II WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	ATTENTION

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

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

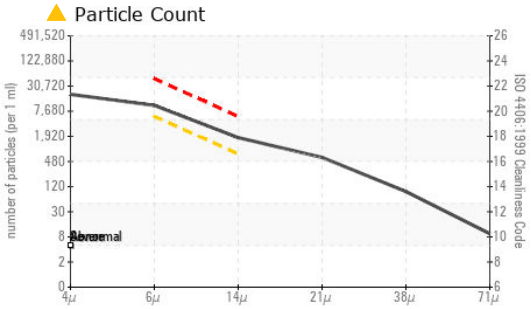
CONTAMINATION

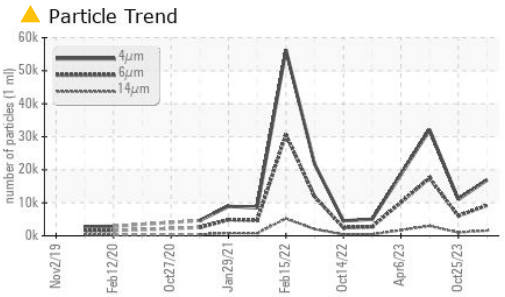
There is a high amount of particulates present in the oil. Light fuel dilution occurring.

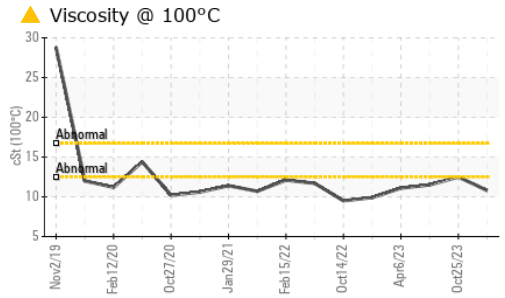
FLUID CONDITION

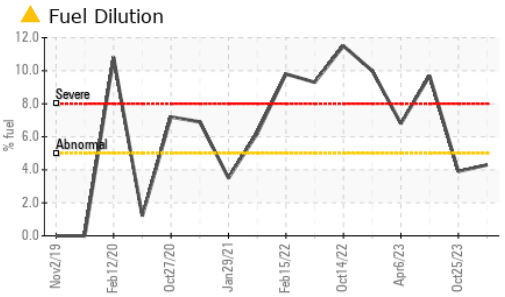
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

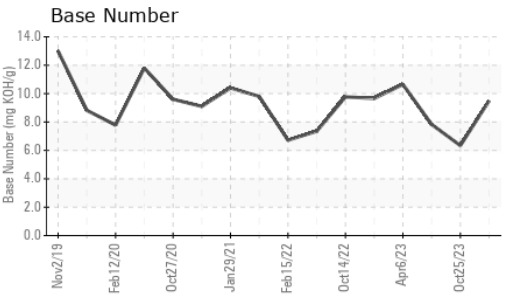
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		KL0013490	KL0013330	KL0012820
Sample Date		Client Info		24 Jan 2024	25 Oct 2023	16 Sep 2023
Machine Age	hrs	Client Info		0	16703	16023
Oil Age	hrs	Client Info		700	692	12
Filter Age	hrs	Client Info		700	692	12
Oil Changed		Client Info		Changed	Changed	Not Changd
Filter Changed		Client Info		Changed	Changed	Not Changd
Sample Status				ABNORMAL	ATTENTION	SEVERE
Iron	ppm	ASTM D5185m	>100	12	19	10
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	1	<1
Lead	ppm	ASTM D5185m	>40	0	0	<1
Copper	ppm	ASTM D5185m	>330	<1	8	<1
Tin	ppm	ASTM D5185m	>15	0	0	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	8	6	6
Potassium	ppm	ASTM D5185m	>20	4	<1	4
Fuel	%	ASTM D3524	>5	▲ 4.3	▲ 3.9	⬢ 9.7
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.2	1.2	0
Nitration	Abs/cm	*ASTM D7624	>20	9.7	14.5	10.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.7	22.5	23.0
Particles >4µm		ASTM D7647		16903	11040	32084
Particles >6µm		ASTM D7647	>5000	▲ 9208	▲ 6014	▲ 17478
Particles >14µm		ASTM D7647	>640	▲ 1567	▲ 1024	▲ 2975
Particles >21µm		ASTM D7647	>160	▲ 528	▲ 345	▲ 1002
Particles >38µm		ASTM D7647	>40	▲ 81	▲ 53	▲ 155
Particles >71µm		ASTM D7647	>10	8	5	▲ 16
Oil Cleanliness		ISO 4406 (c)	>19/16	▲ 20/18	▲ 20/17	▲ 21/19
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
Sodium	ppm	ASTM D5185m		0	4	2
Boron	ppm	ASTM D5185m		0	88	222
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		<1	60	84
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m		5	252	382
Calcium	ppm	ASTM D5185m		2809	1975	1929
Phosphorus	ppm	ASTM D5185m		1188	830	930
Zinc	ppm	ASTM D5185m		1337	984	1135
Sulfur	ppm	ASTM D5185m		3722	3244	4075
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.2	21.4	18.6
Base Number (BN)	mg KOH/g	ASTM D2896		9.49	6.34	7.83
Visc @ 100°C	cSt	ASTM D445		▲ 10.8	12.5	▲ 11.5

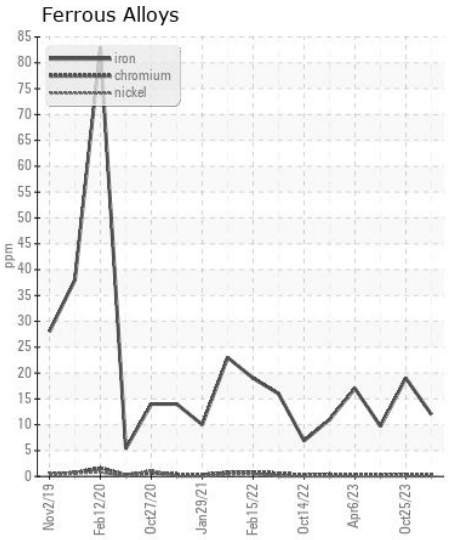


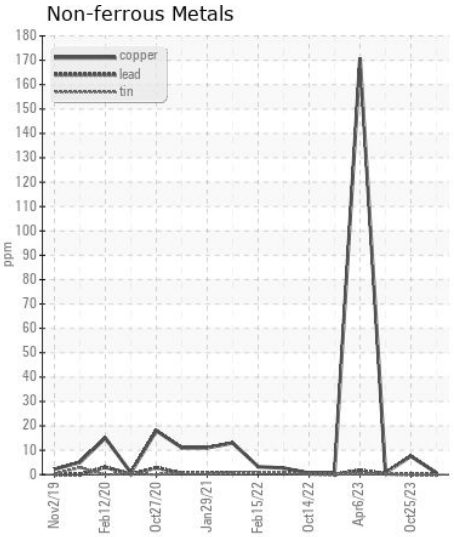


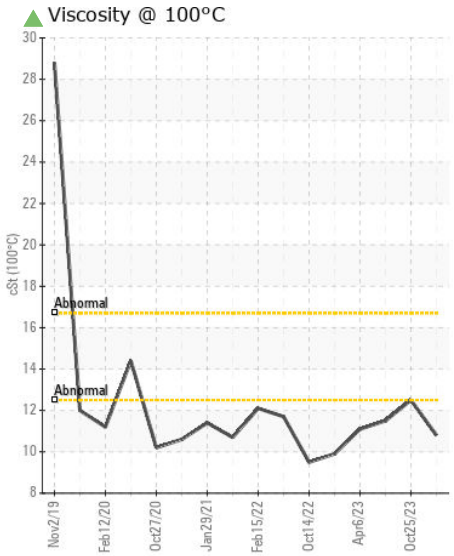


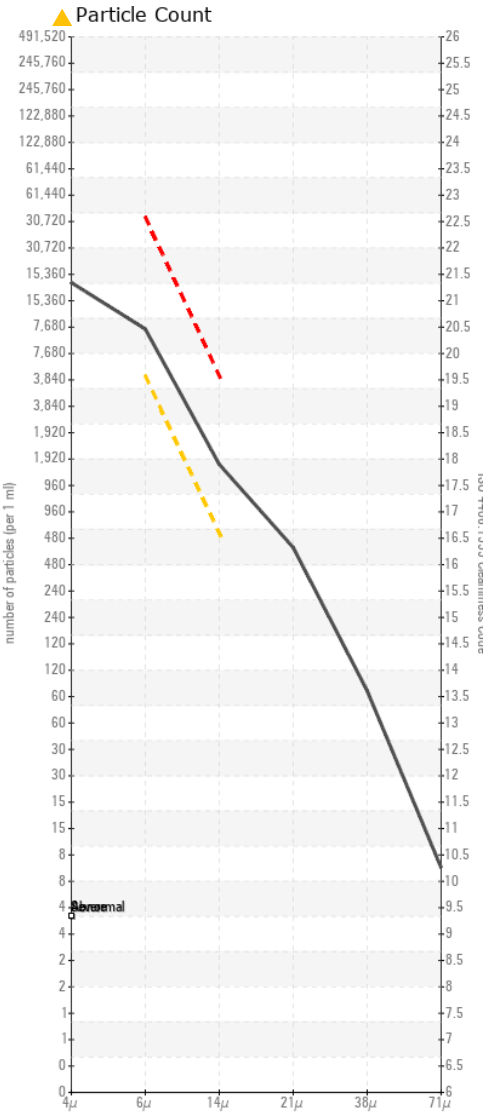


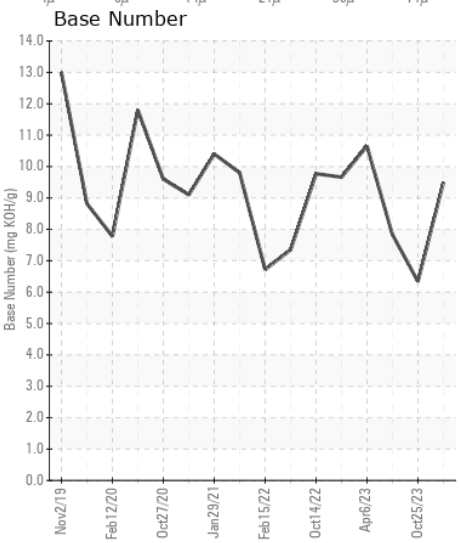












Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0013490 **Recieved** : 30 Jan 2024
Lab Number : 06074995 **Diagnosed** : 02 Feb 2024
Unique Number : 10857086 **Diagnostician** : Jonathan Hester
Test Package : MOB 2 (Additional Tests: FuelDilution, 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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