MOB II WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	ATTENTION

Area
GUAY SON [CONHER]
Machine Id
IBACO ARCENIO VICENTE MAIN
Component
Diesel Engine
Fluid
XTRA REV 15W40 (160 LTR)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

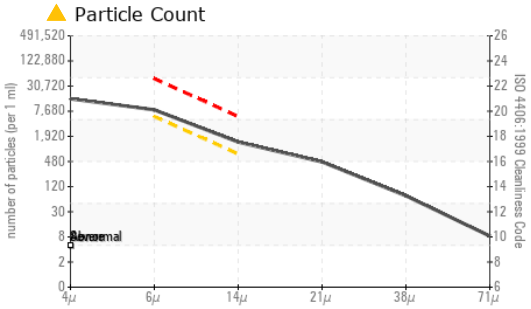
CONTAMINATION

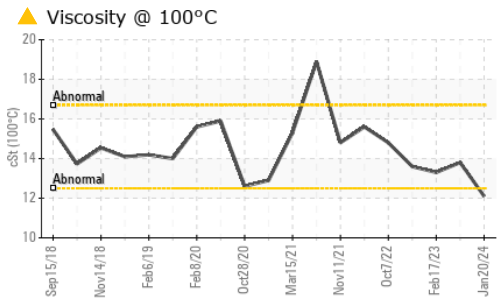
There is a moderate amount of particulates present in the oil. Fuel content negligible.

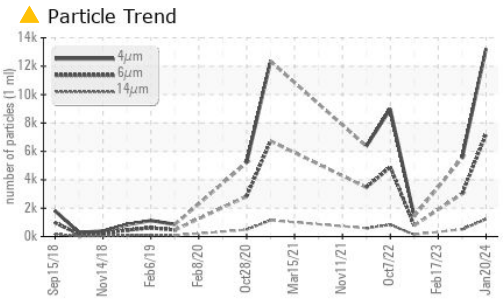
FLUID CONDITION

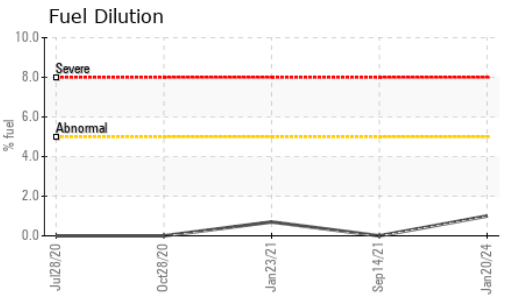
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

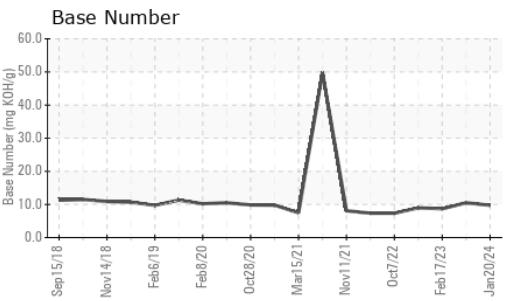
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		KL0013484	KL0012847	KL0010226
Sample Date		Client Info		20 Jan 2024	20 Sep 2023	17 Feb 2023
Machine Age	hrs	Client Info		17357	16159	15690
Oil Age	hrs	Client Info		151	2	1216
Filter Age	hrs	Client Info		151	2	1216
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ATTENTION	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>100	11	3	17
Chromium	ppm	ASTM D5185m	>20	<1	0	1
Nickel	ppm	ASTM D5185m	>2	0	0	<1
Titanium	ppm	ASTM D5185m	>2	0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	3	<1
Lead	ppm	ASTM D5185m	>40	0	0	1
Copper	ppm	ASTM D5185m	>330	2	<1	3
Tin	ppm	ASTM D5185m	>15	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	9	9	7
Potassium	ppm	ASTM D5185m	>20	6	5	36
Fuel	%	ASTM D3524	>5	1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.5	0.1	0.6
Nitration	Abs/cm	*ASTM D7624	>20	6.6	4.1	8.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.3	14.2	20.4
Particles >4µm		ASTM D7647		13232	5533	---
Particles >6µm		ASTM D7647	>5000	▲ 7208	3014	---
Particles >14µm		ASTM D7647	>640	▲ 1227	513	---
Particles >21µm		ASTM D7647	>160	▲ 413	173	---
Particles >38µm		ASTM D7647	>40	▲ 64	27	---
Particles >71µm		ASTM D7647	>10	7	3	---
Oil Cleanliness		ISO 4406 (c)	>19/16	▲ 20/17	19/16	---
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	<1	17
Boron	ppm	ASTM D5185m		59	104	86
Barium	ppm	ASTM D5185m		1	0	0
Molybdenum	ppm	ASTM D5185m		17	17	68
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		82	92	267
Calcium	ppm	ASTM D5185m		2508	2344	2412
Phosphorus	ppm	ASTM D5185m		1145	1126	1075
Zinc	ppm	ASTM D5185m		1335	1374	1298
Sulfur	ppm	ASTM D5185m		3734	3788	4192
Oxidation	Abs/.1mm	*ASTM D7414	>25	9.9	7.6	14.4
Base Number (BN)	mg KOH/g	ASTM D2896		9.74	10.50	8.7
Visc @ 100°C	cSt	ASTM D445		▲ 12.1	13.8	13.3

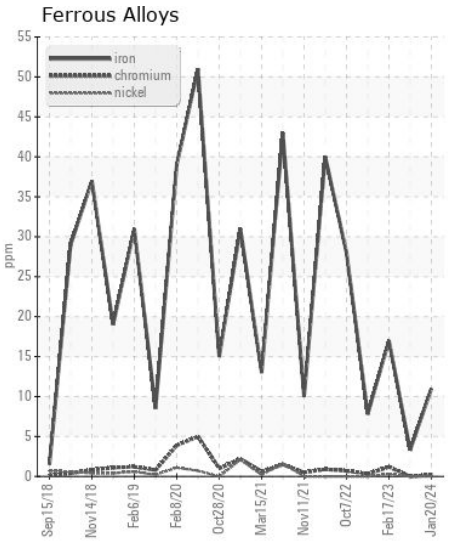


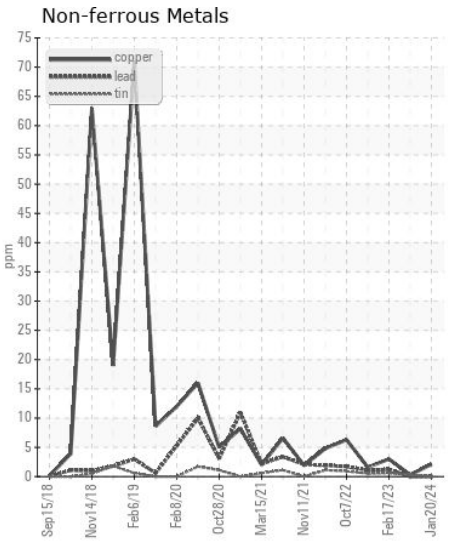


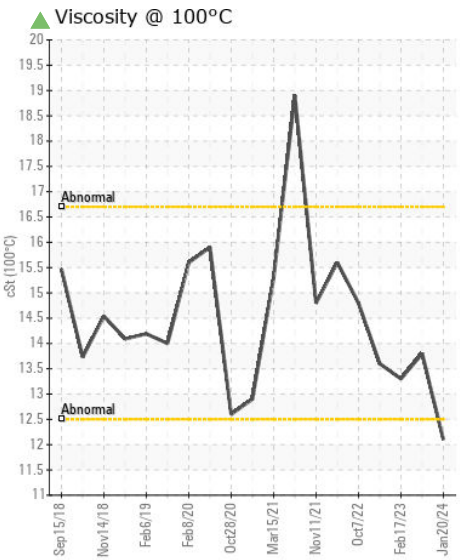


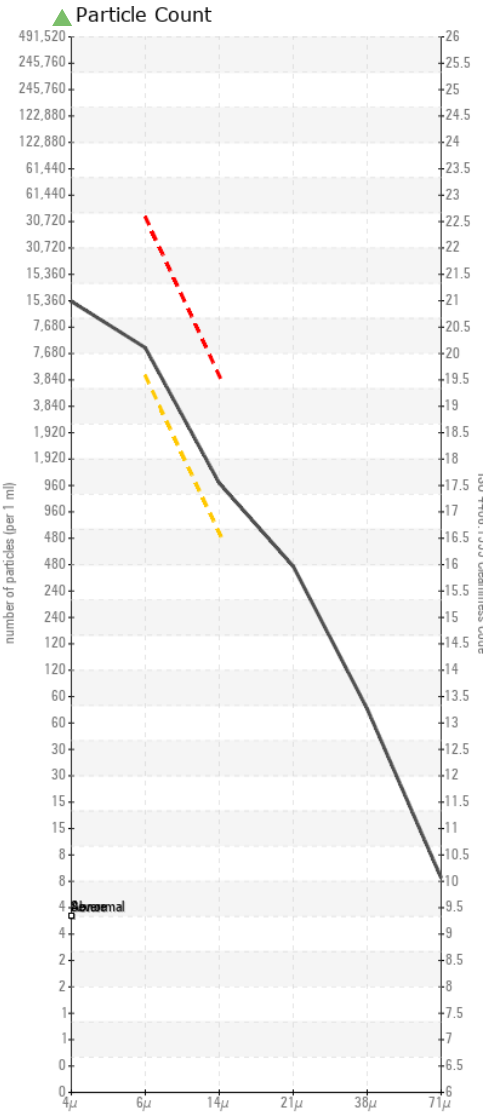


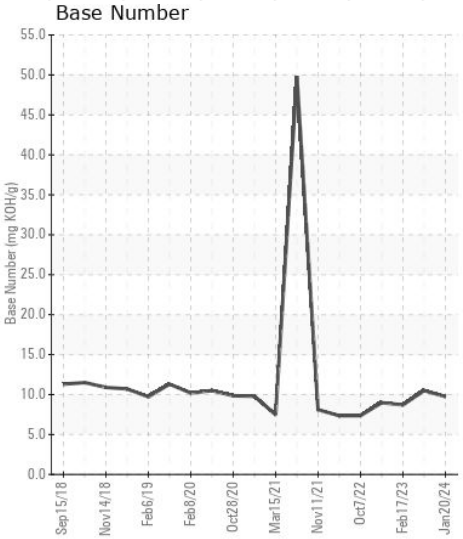












Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0013484 **Recieved** : 30 Jan 2024
Lab Number : 06074999 **Diagnosed** : 02 Feb 2024
Unique Number : 10857090 **Diagnostician** : Jonathan Hester
Test Package : MOB 2 (Additional Tests: FuelDilution, PercentFuel, PrtCount)

Certificate L2367

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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