MOB II WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	ATTENTION

Area
IBACO [CONHER]
Machine Id
COZAR I
Component
Bottom Diesel Engine
Fluid
RALOY 15W40 (160 LTR)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor. (Customer Sample Comment: Fluid: Raloy 15W40)

WEAR

All component wear rates are normal.

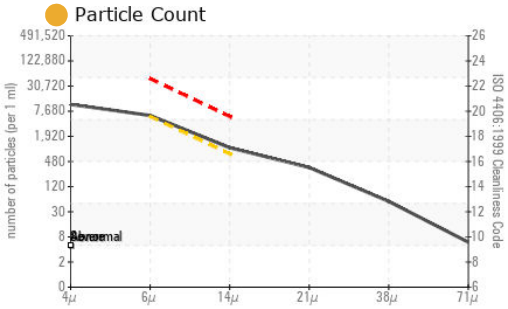
CONTAMINATION

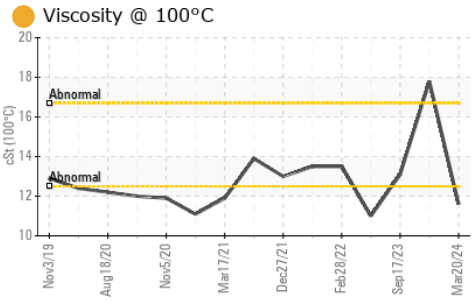
There is a moderate amount of particulates present in the oil. Fuel content negligible.

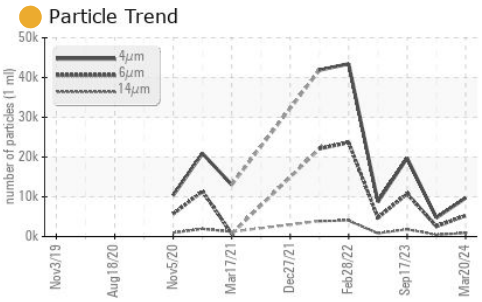
FLUID CONDITION

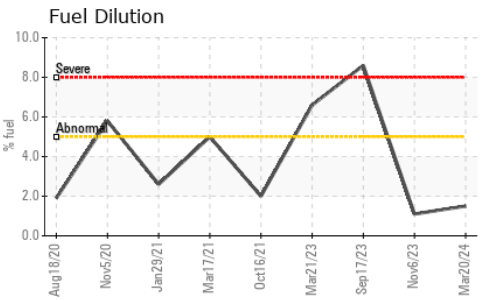
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

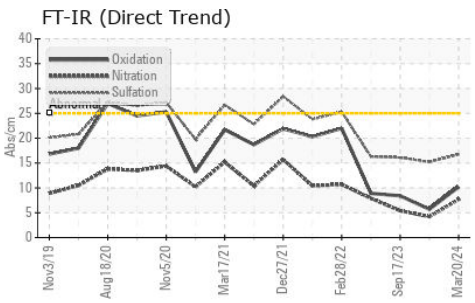
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		KL0014190	KL0013369	KL0012789
Sample Date		Client Info		20 Mar 2024	06 Nov 2023	17 Sep 2023
Machine Age	hrs	Client Info		0	16750	16025
Oil Age	hrs	Client Info		0	280	15
Filter Age	hrs	Client Info		0	280	15
Oil Changed		Client Info		N/A	Not Changd	Not Changd
Filter Changed		Client Info		N/A	Not Changd	Not Changd
Sample Status				ATTENTION	ATTENTION	SEVERE
Iron	ppm	ASTM D5185m	>100	22	30	3
Chromium	ppm	ASTM D5185m	>20	<1	<1	0
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	<1	<1
Lead	ppm	ASTM D5185m	>40	7	1	<1
Copper	ppm	ASTM D5185m	>330	3	47	<1
Tin	ppm	ASTM D5185m	>15	1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	12	8	6
Potassium	ppm	ASTM D5185m	>20	4	0	6
Fuel	%	ASTM D3524	>5	1.5	1.1	▲ 8.6
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.2	0	0
Nitration	Abs/cm	*ASTM D7624	>20	7.7	4.2	5.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	16.7	15.2	16.1
Particles >4µm		ASTM D7647		9709	4715	19722
Particles >6µm		ASTM D7647	>5000	● 5289	2569	▲ 10744
Particles >14µm		ASTM D7647	>640	● 900	437	▲ 1828
Particles >21µm		ASTM D7647	>160	● 303	147	▲ 616
Particles >38µm		ASTM D7647	>40	● 47	23	▲ 95
Particles >71µm		ASTM D7647	>10	5	2	10
Oil Cleanliness		ISO 4406 (c)	>19/16	● 20/17	19/16	▲ 21/18
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		25	2	<1
Boron	ppm	ASTM D5185m		<1	0	28
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		3	0	8
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		12	0	43
Calcium	ppm	ASTM D5185m		2878	3233	2727
Phosphorus	ppm	ASTM D5185m		1209	936	1133
Zinc	ppm	ASTM D5185m		1391	809	1373
Sulfur	ppm	ASTM D5185m		4112	6199	4586
Oxidation	Abs/.1mm	*ASTM D7414	>25	10.2	5.7	8.4
Base Number (BN)	mg KOH/g	ASTM D2896		9.48	9.95	9.71
Visc @ 100°C	cSt	ASTM D445		● 11.6	● 17.8	13.1

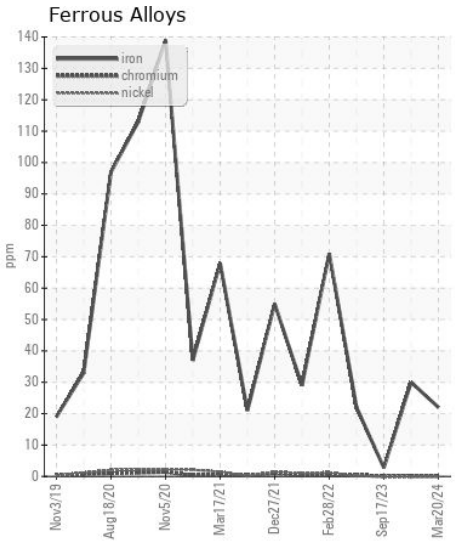


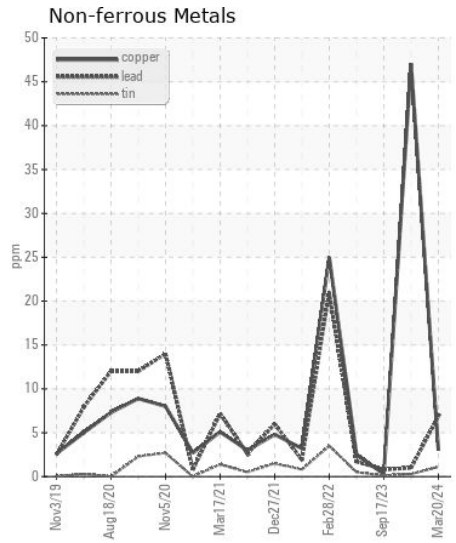


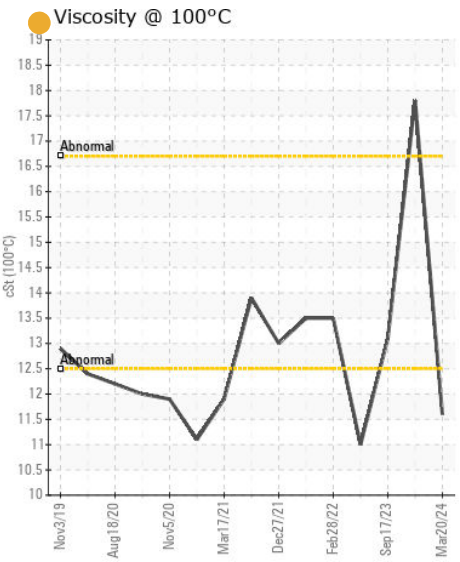


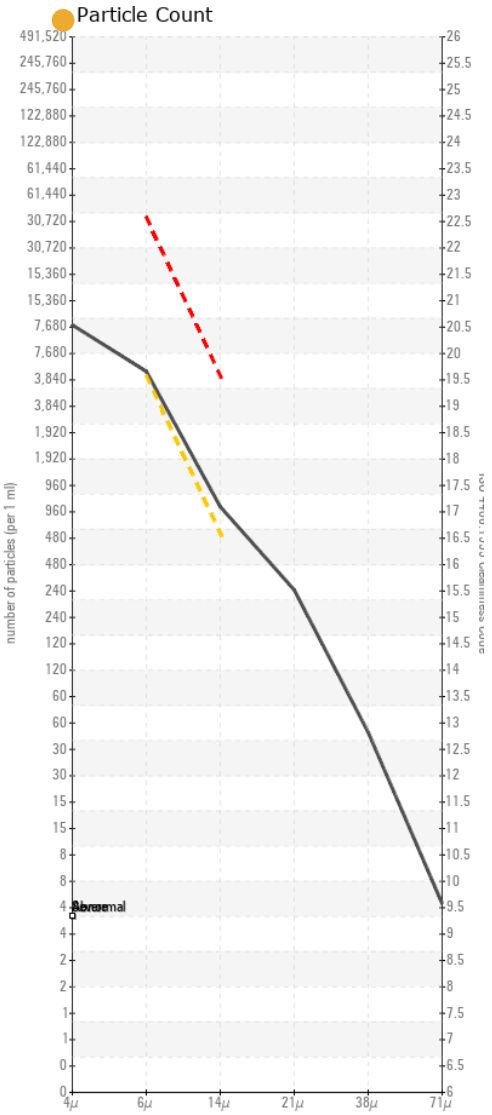


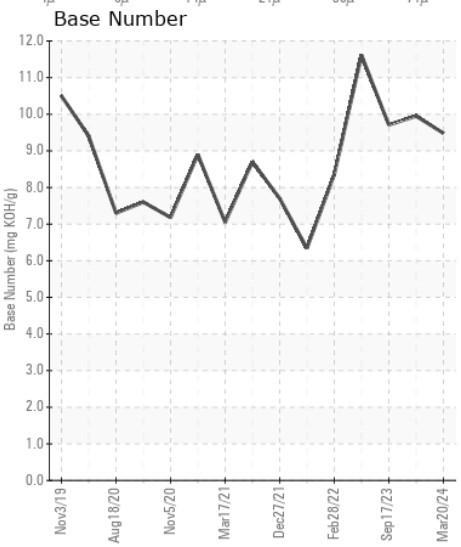












Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0014190 **Received** : 18 Apr 2024
Lab Number : 06153320 **Tested** : 23 Apr 2024
Unique Number : 10983398 **Diagnosed** : 23 Apr 2024 - 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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