MOB II WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	ABNORMAL

Area
GUAY SON [CONHER]
Machine Id
BM CHUYITO 29 IBACO
Component
Auxilary Power Unit Diesel Engine
Fluid
RALOY 15W40 (8 LTR)

RECOMMENDATION

We advise that you check the fuel injection system. Resample at the next service interval to monitor. (Customer Sample Comment: Fluid: Raloy 15W40)

WEAR

All component wear rates are normal.

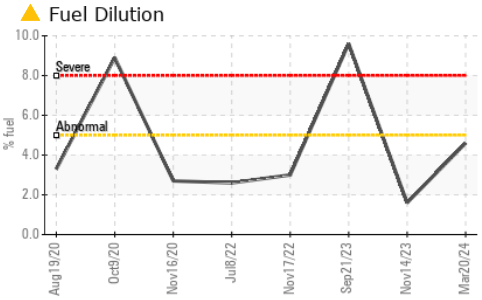
CONTAMINATION

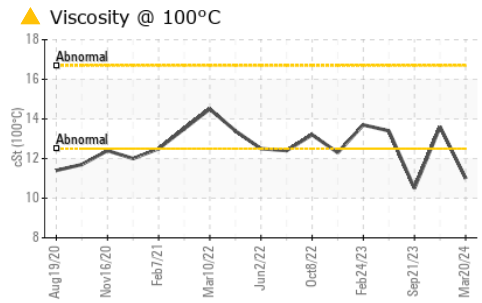
There is a moderate amount of fuel present in the oil. The amount and size of particulates present in the system are acceptable.

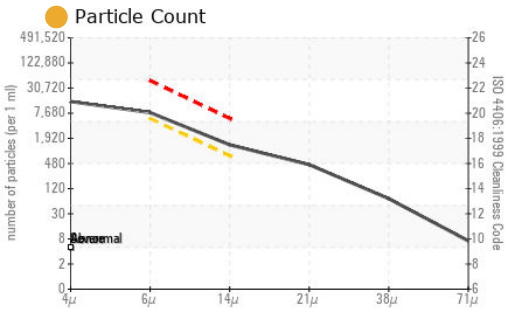
FLUID CONDITION

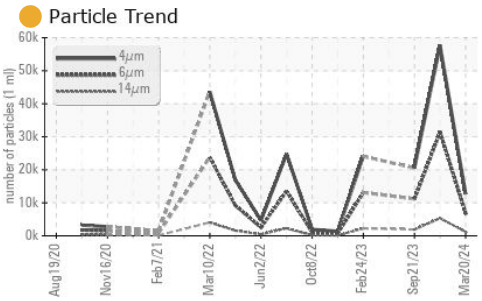
Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.

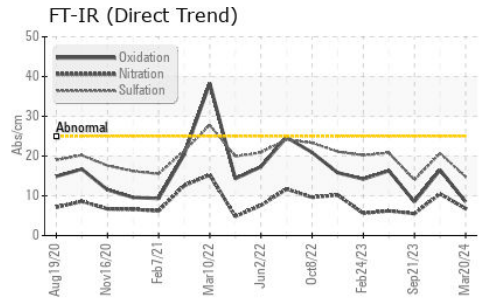
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		KL0014519	KL0013412	KL0012855
Sample Date		Client Info		20 Mar 2024	14 Nov 2023	21 Sep 2023
Machine Age	hrs	Client Info		0	0	16749
Oil Age	hrs	Client Info		171	96	24
Filter Age	hrs	Client Info		171	96	24
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Filter Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>100	27	17	87
Chromium	ppm	ASTM D5185m	>20	<1	1	<1
Nickel	ppm	ASTM D5185m	>4	0	<1	0
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	<1	4
Lead	ppm	ASTM D5185m	>40	<1	1	2
Copper	ppm	ASTM D5185m	>330	<1	7	2
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	7	8	10
Potassium	ppm	ASTM D5185m	>20	1	3	2
Fuel	%	ASTM D3524	>5	▲ 4.6	1.6	▲ 9.6
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.3	0.6	0.2
Nitration	Abs/cm	*ASTM D7624	>20	6.8	10.5	5.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	14.8	20.7	14.0
Particles >4µm		ASTM D7647		12684	57679	20523
Particles >6µm		ASTM D7647	>5000	● 6910	▲ 31421	▲ 11180
Particles >14µm		ASTM D7647	>640	● 1176	▲ 5347	▲ 1903
Particles >21µm		ASTM D7647	>160	● 396	▲ 1801	▲ 641
Particles >38µm		ASTM D7647	>40	● 61	▲ 278	▲ 99
Particles >71µm		ASTM D7647	>10	6	▲ 28	10
Oil Cleanliness		ISO 4406 (c)	>19/16	● 20/17	▲ 22/20	▲ 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		0	8	<1
Boron	ppm	ASTM D5185m		0	23	32
Barium	ppm	ASTM D5185m		0	<1	0
Molybdenum	ppm	ASTM D5185m		<1	27	15
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		3	18	64
Calcium	ppm	ASTM D5185m		2643	3420	2309
Phosphorus	ppm	ASTM D5185m		1094	890	1041
Zinc	ppm	ASTM D5185m		1278	1040	1245
Sulfur	ppm	ASTM D5185m		3652	3740	3389
Oxidation	Abs/.1mm	*ASTM D7414	>25	8.5	16.5	8.5
Base Number (BN)	mg KOH/g	ASTM D2896		9.45	10.42	9.52
Visc @ 100°C	cSt	ASTM D445		▲ 11.0	13.6	▲ 10.5

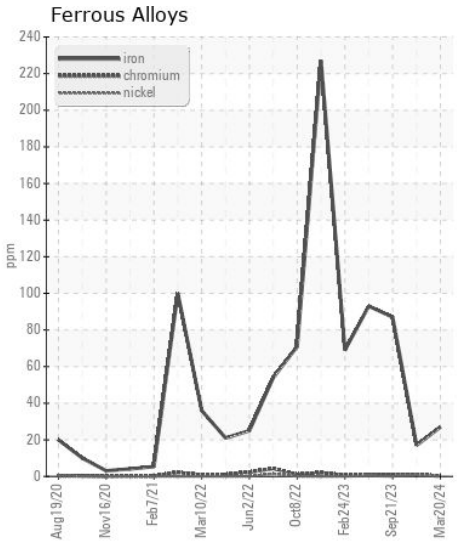


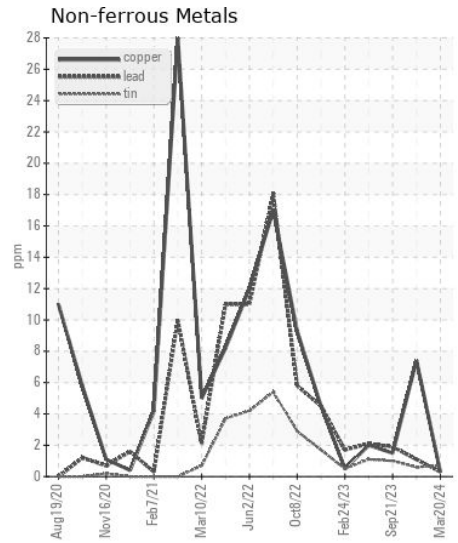


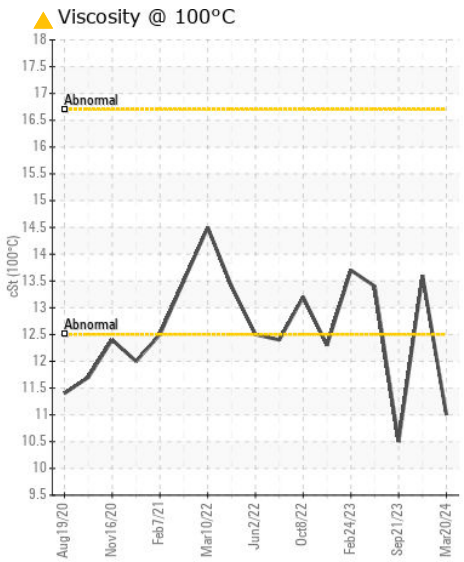


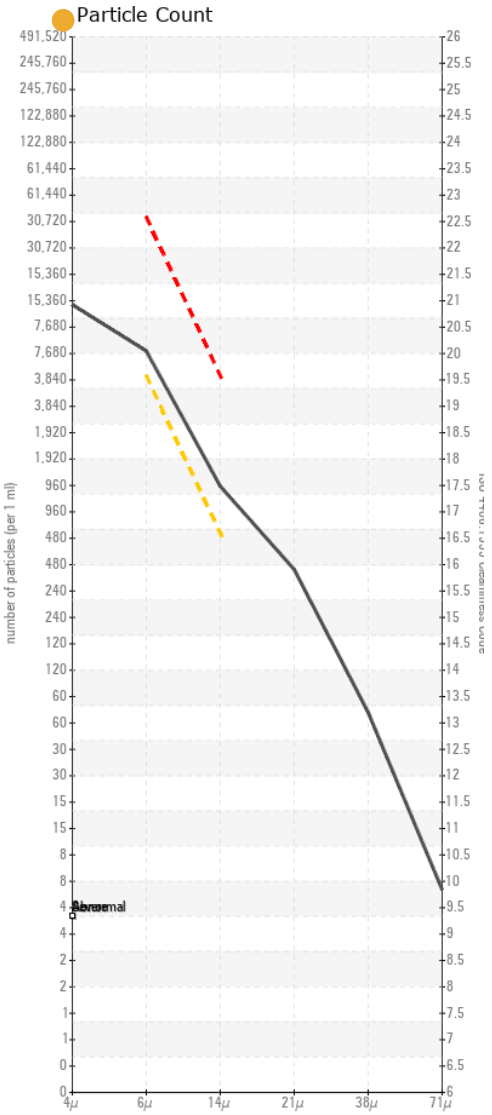


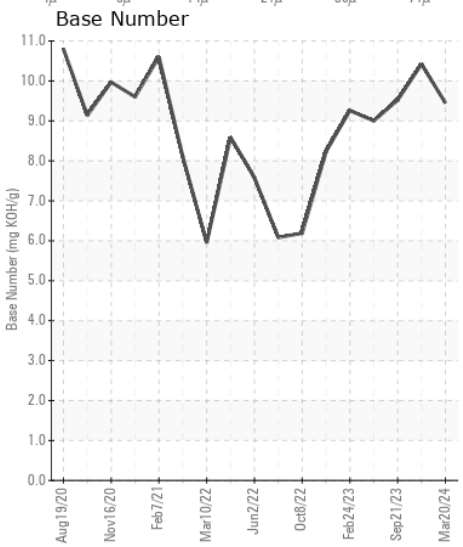












Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0014519 **Received** : 18 Apr 2024
Lab Number : 06153284 **Tested** : 23 Apr 2024
Unique Number : 10983362 **Diagnosed** : 23 Apr 2024 - Don Baldridge
Test Package : MOB 2 (Additional Tests: FuelDilution, PercentFuel, PrtCount)

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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