MOB II WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

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

RECOMMENDATION

Resample at the next service interval to monitor. (Customer Sample Comment: Fluid: Raloy 15W40)

WEAR

All component wear rates are normal.

CONTAMINATION

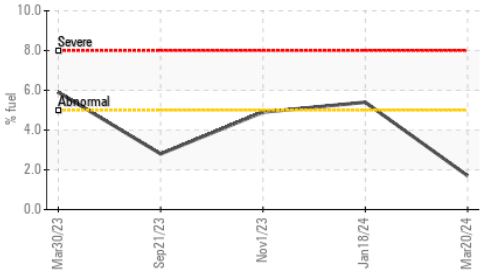
Fuel content negligible. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

FLUID CONDITION

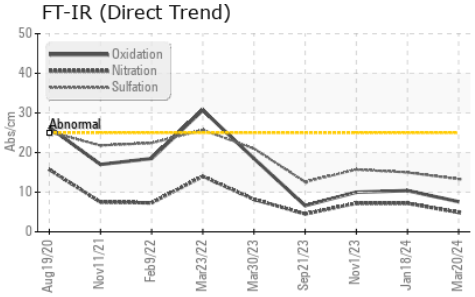
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		KL0014516	KL0013480	KL0013349
Sample Date		Client Info		20 Mar 2024	18 Jan 2024	01 Nov 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		240	100	240
Filter Age	hrs	Client Info		240	100	240
Oil Changed		Client Info		Changed	Not Changd	Changed
Filter Changed		Client Info		Changed	Not Changd	Changed
Sample Status				NORMAL	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>100	10	30	40
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	3	5
Lead	ppm	ASTM D5185m	>40	<1	0	1
Copper	ppm	ASTM D5185m	>330	<1	2	29
Tin	ppm	ASTM D5185m	>15	<1	0	1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	11	14	18
Potassium	ppm	ASTM D5185m	>20	2	4	3
Fuel	%	ASTM D3524	>5	1.7	▲ 5.4	▲ 4.9
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	4.9	7.2	7.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	13.3	15.0	15.7
Particles >4µm		ASTM D7647		4489	9100	45569
Particles >6µm		ASTM D7647	>5000	2445	4957	▲ 24824
Particles >14µm		ASTM D7647	>640	416	● 844	▲ 4225
Particles >21µm		ASTM D7647	>160	140	● 284	▲ 1423
Particles >38µm		ASTM D7647	>40	22	● 44	▲ 220
Particles >71µm		ASTM D7647	>10	2	4	▲ 22
Oil Cleanliness		ISO 4406 (c)	>19/16	18/16	● 19/17	▲ 22/19
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	6	10
Boron	ppm	ASTM D5185m		0	2	52
Barium	ppm	ASTM D5185m		0	<1	<1
Molybdenum	ppm	ASTM D5185m		<1	0	<1
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m		17	6	13
Calcium	ppm	ASTM D5185m		2803	2496	3454
Phosphorus	ppm	ASTM D5185m		1197	1076	1066
Zinc	ppm	ASTM D5185m		1371	1186	1366
Sulfur	ppm	ASTM D5185m		4156	3543	3612
Oxidation	Abs/.1mm	*ASTM D7414	>25	7.6	10.4	10.0
Base Number (BN)	mg KOH/g	ASTM D2896		9.85	9.23	13.68
Visc @ 100°C	cSt	ASTM D445		13.0	▲ 10.9	▲ 12.2

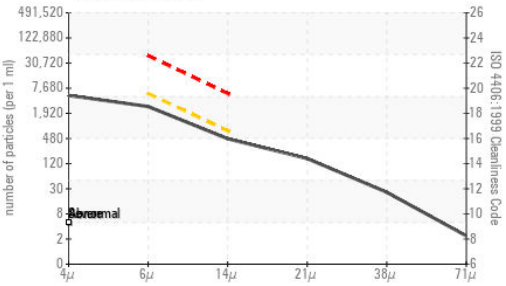
Fuel Dilution



FT-IR (Direct Trend)



Particle Count



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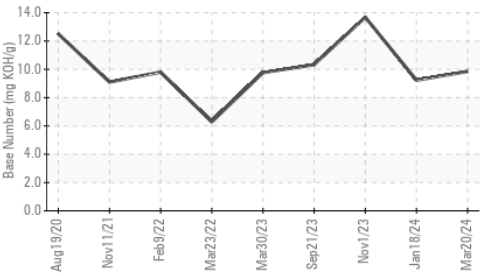
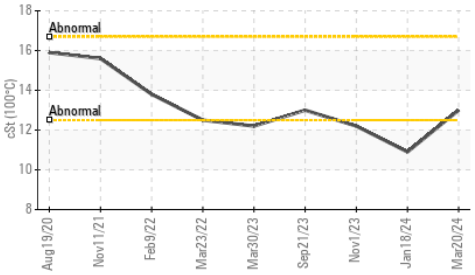
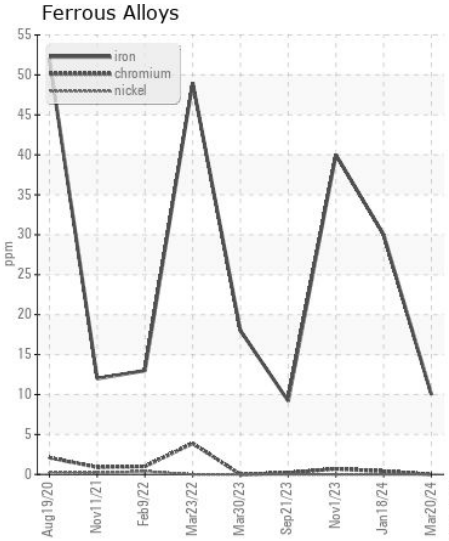


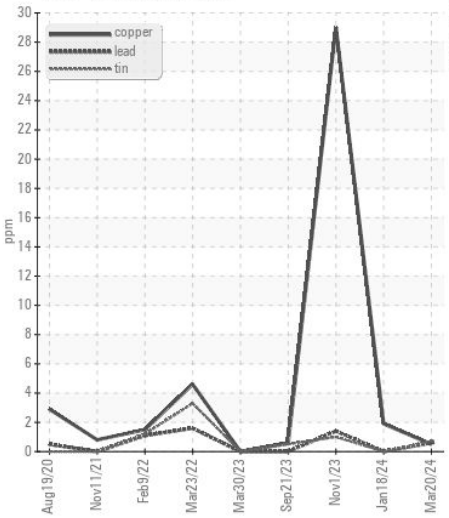
Viscosity @ 100°C



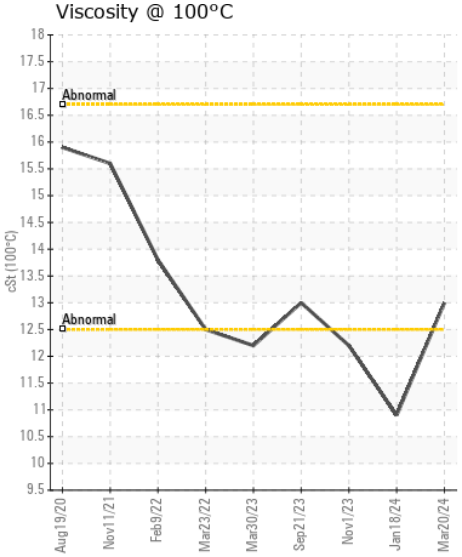
Ferrous Alloys



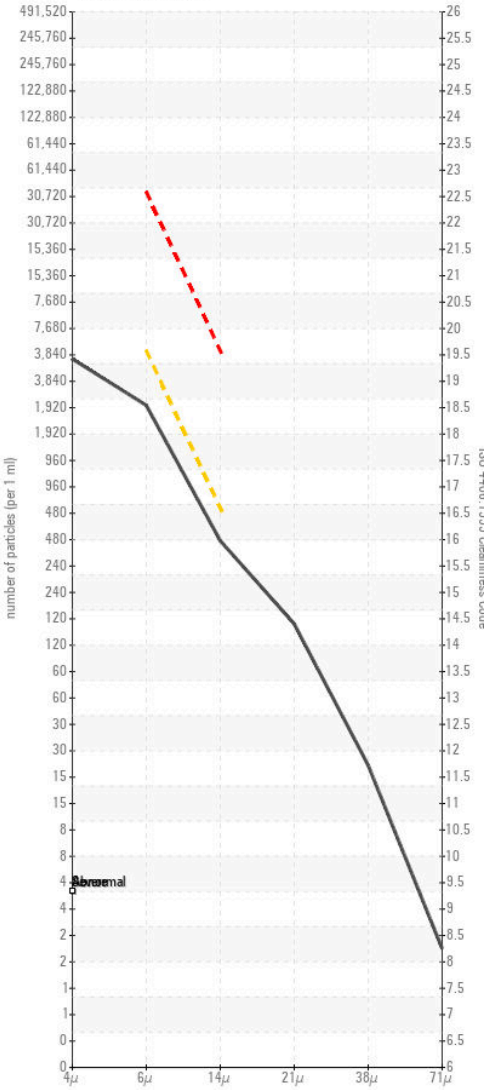
Non-ferrous Metals



Viscosity @ 100°C



Particle Count



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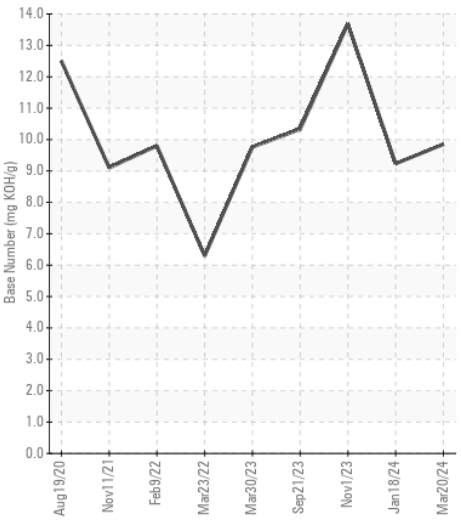

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0014516 **Received** : 18 Apr 2024
Lab Number : 06153322 **Tested** : 23 Apr 2024
Unique Number : 10983400 **Diagnosed** : 23 Apr 2024 - Jonathan Hester
Test Package : MOB 2 (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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