MOB II WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
GUAY SON [CONHER]
Machine Id
MADE IN MEXICO IBACO BM NAUTICO 4
Component
Auxiliary Auxiliary Engine
Fluid
XTRA REV 15W40 (8 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

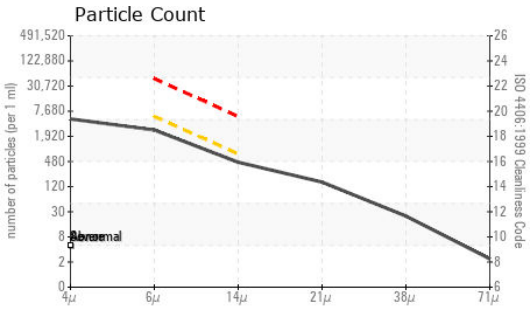
CONTAMINATION

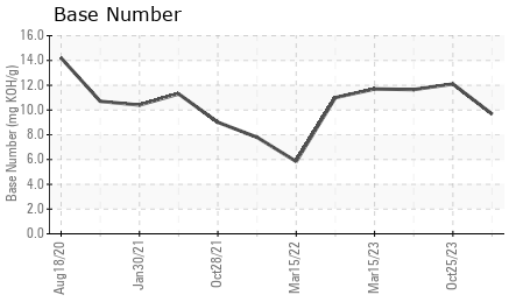
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

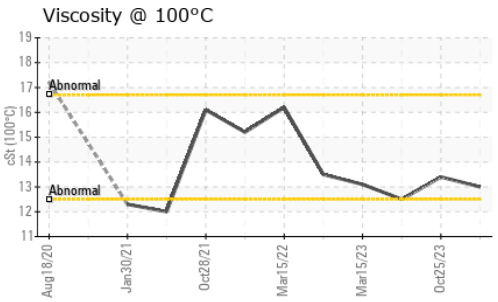
FLUID CONDITION

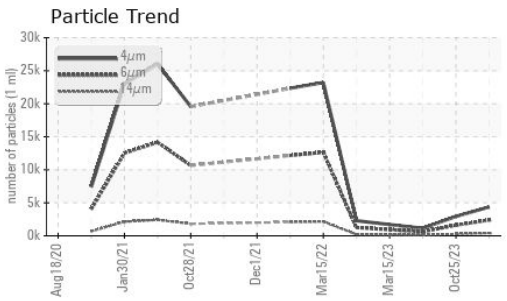
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

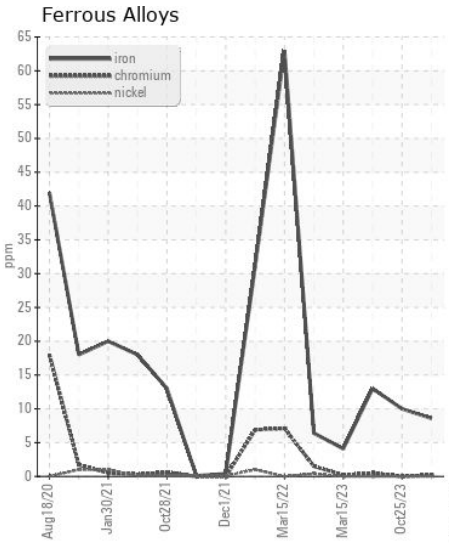
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		KL0013477	KL0013340	KL0012836
Sample Date		Client Info		20 Jan 2024	25 Oct 2023	20 Sep 2023
Machine Age	hrs	Client Info		0	3835	2891
Oil Age	hrs	Client Info		250	214	24
Filter Age	hrs	Client Info		250	214	24
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>100	9	10	13
Chromium	ppm	ASTM D5185m	>20	<1	0	<1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	<1	4
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	1	<1	2
Tin	ppm	ASTM D5185m	>15	0	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	3	3	5
Potassium	ppm	ASTM D5185m	>20	5	0	0
Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844		0.1	0.9	0.1
Nitration	Abs/cm	*ASTM D7624	>20	7.9	12.3	7.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.7	21.6	18.5
Particles >4µm		ASTM D7647		4367	2940	1140
Particles >6µm		ASTM D7647	>5000	2379	1602	621
Particles >14µm		ASTM D7647	>640	405	273	106
Particles >21µm		ASTM D7647	>160	136	92	36
Particles >38µm		ASTM D7647	>40	21	14	5
Particles >71µm		ASTM D7647	>10	2	1	1
Oil Cleanliness		ISO 4406 (c)	>19/16	18/16	18/15	16/14
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	>0.1	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m		0	1	2
Boron	ppm	ASTM D5185m		49	0	0
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		43	0	<1
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m		498	20	18
Calcium	ppm	ASTM D5185m		1730	3689	3889
Phosphorus	ppm	ASTM D5185m		990	939	980
Zinc	ppm	ASTM D5185m		1145	1138	1225
Sulfur	ppm	ASTM D5185m		3006	4309	5070
Oxidation	Abs/.1mm	*ASTM D7414	>25	22.6	17.5	13.4
Base Number (BN)	mg KOH/g	ASTM D2896		9.67	12.10	11.65
Visc @ 100°C	cSt	ASTM D445		13.0	13.4	12.5

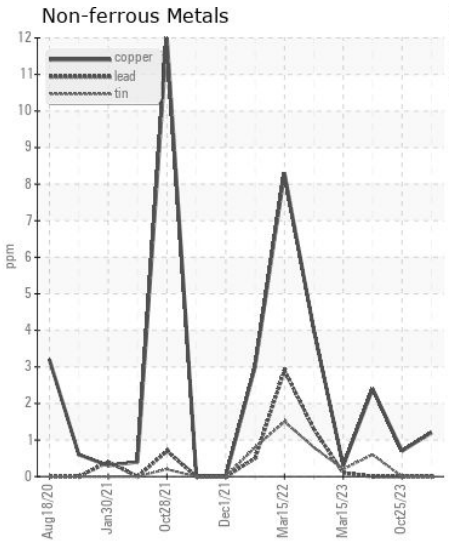


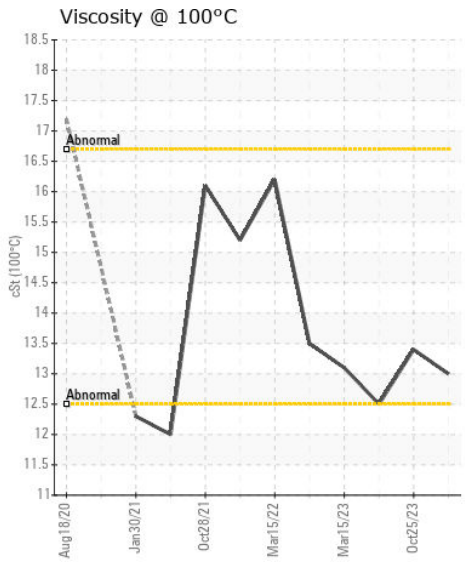


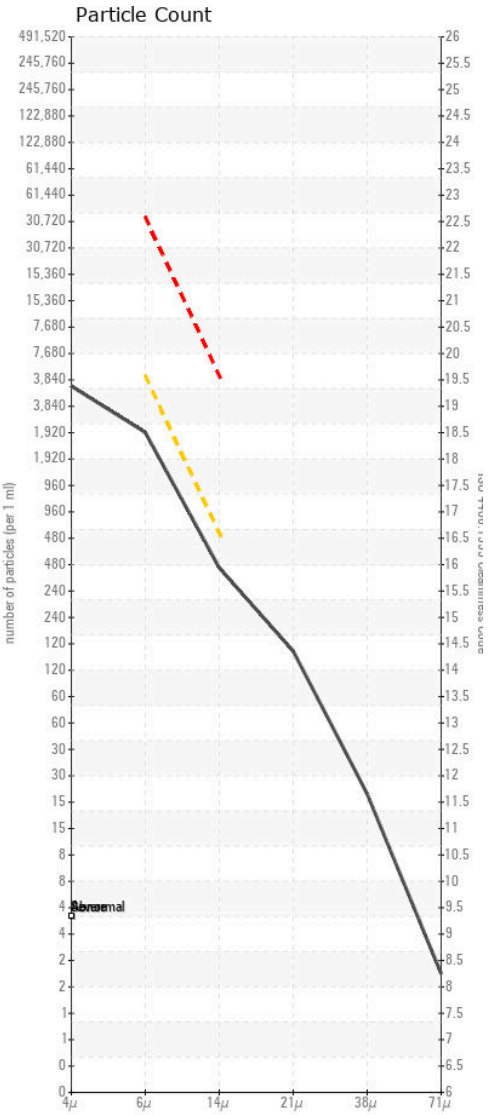


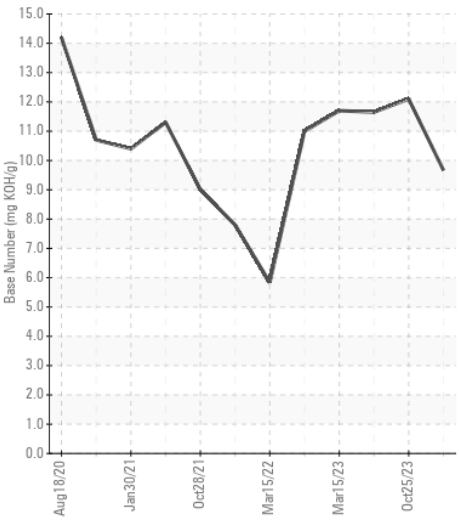












Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0013477 **Recieved** : 30 Jan 2024
Lab Number : 06075002 **Diagnosed** : 02 Feb 2024
Unique Number : 10857093 **Diagnostician** : Jonathan Hester
Test Package : MOB 2 (Additional Tests: 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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