MOB II WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
[CONHER]
Machine Id
Flota Barda - Barda1
Component
Diesel Engine
Fluid
TOTAL FINA RUBIA TIR 7900 15W40 (160 LTR)

RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

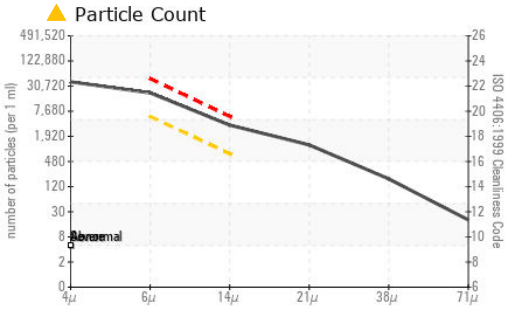
CONTAMINATION

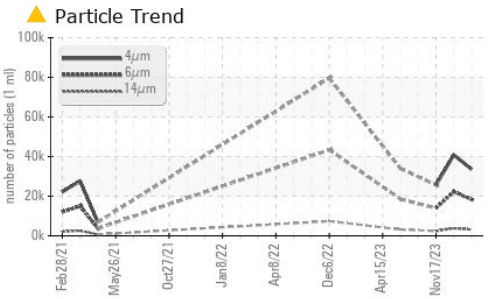
There is a high amount of particulates present in the oil.

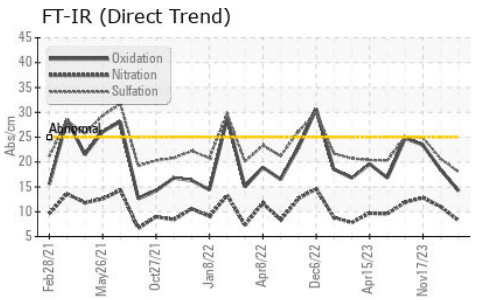
FLUID CONDITION

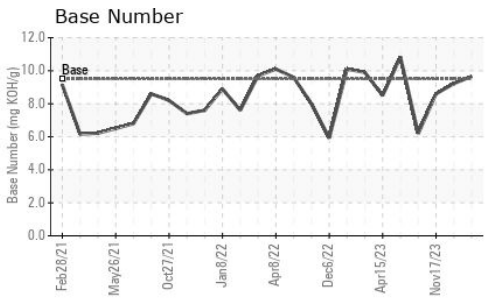
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

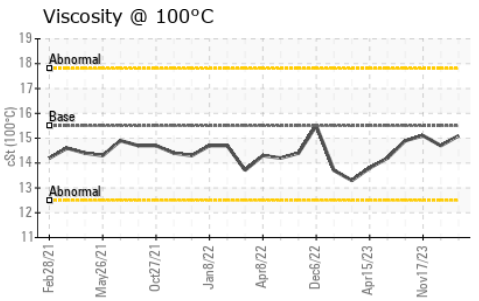
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		KL0014574	KL0014117	KL0013393
Sample Date		Client Info		19 Apr 2024	02 Feb 2024	17 Nov 2023
Machine Age	hrs	Client Info		6111	0	4022
Oil Age	hrs	Client Info		0	1	0
Filter Age	hrs	Client Info		0	1	0
Oil Changed		Client Info		N/A	Not Changd	N/A
Filter Changed		Client Info		N/A	Not Changd	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>100	8	19	44
Chromium	ppm	ASTM D5185m	>20	<1	0	<1
Nickel	ppm	ASTM D5185m	>2	<1	0	<1
Titanium	ppm	ASTM D5185m	>2	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	3	2
Lead	ppm	ASTM D5185m	>40	2	1	2
Copper	ppm	ASTM D5185m	>330	1	<1	3
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	5	5	5
Potassium	ppm	ASTM D5185m	>20	3	<1	0
Fuel		WC Method	>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	0.1	0.3	0.4
Nitration	Abs/cm	*ASTM D7624	>20	8.2	11.0	12.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.0	20.6	24.9
Particles >4µm		ASTM D7647		33589	40819	25612
Particles >6µm		ASTM D7647	>5000	▲ 18298	▲ 22236	▲ 13952
Particles >14µm		ASTM D7647	>640	▲ 3114	▲ 3784	▲ 2375
Particles >21µm		ASTM D7647	>160	▲ 1049	▲ 1275	▲ 800
Particles >38µm		ASTM D7647	>40	▲ 162	▲ 197	▲ 123
Particles >71µm		ASTM D7647	>10	▲ 17	▲ 20	▲ 13
Oil Cleanliness		ISO 4406 (c)	>19/16	▲ 21/19	▲ 22/19	▲ 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		<1	2	4
Boron	ppm	ASTM D5185m		75	39	35
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		94	91	96
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		30	65	34
Calcium	ppm	ASTM D5185m	3290	2195	2078	2311
Phosphorus	ppm	ASTM D5185m	1200	1116	967	1161
Zinc	ppm	ASTM D5185m	1400	1200	1158	1325
Sulfur	ppm	ASTM D5185m	4000	4459	3332	3851
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.2	18.4	23.4
Base Number (BN)	mg KOH/g	ASTM D2896	9.5	9.66	9.22	8.60
Visc @ 100°C	cSt	ASTM D445	15.5	15.1	14.7	15.1

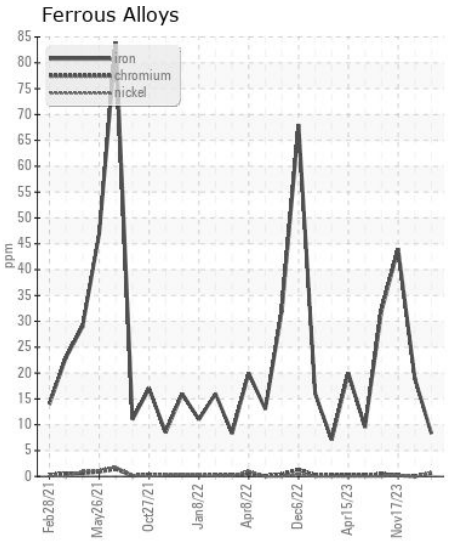


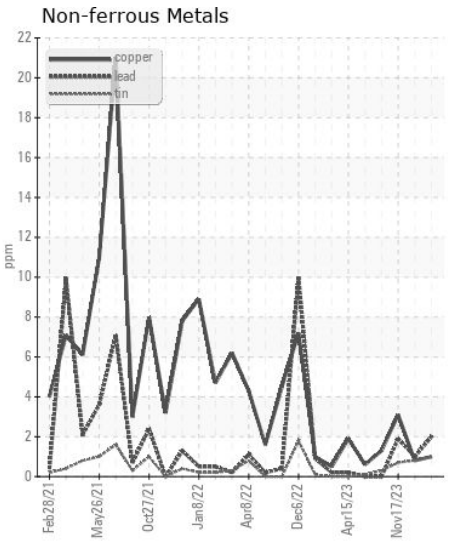


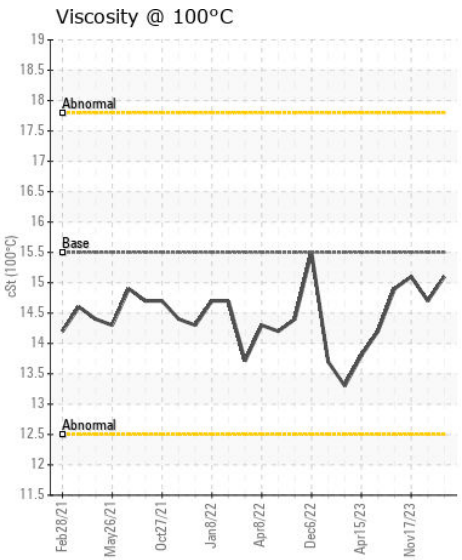


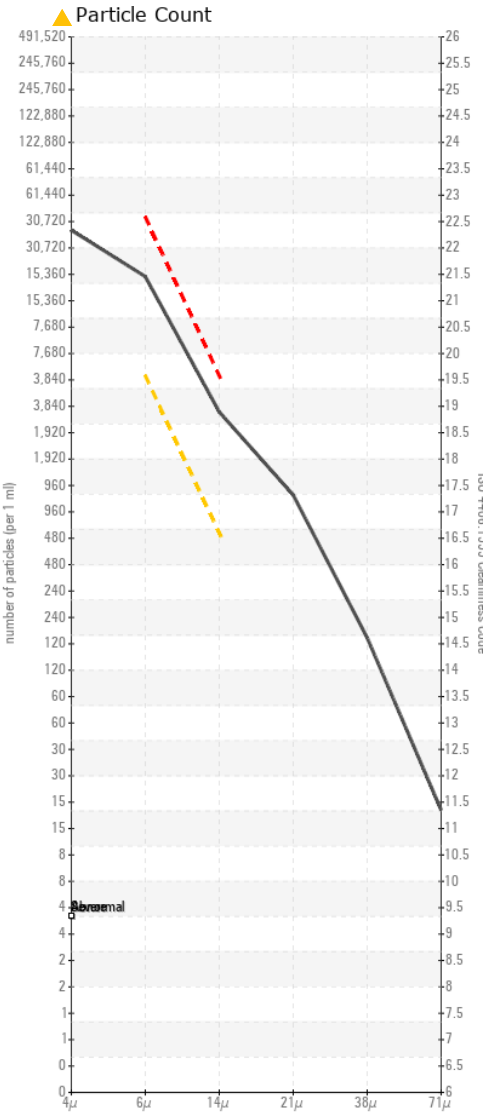


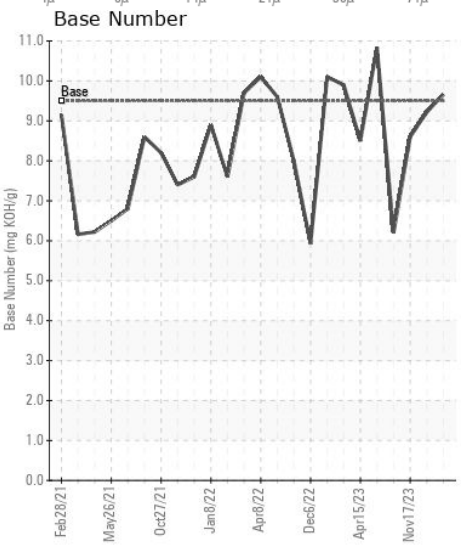












Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0014574
Lab Number : 06174062
Unique Number : 11020115
Test Package : MOB 2 (Additional Tests: PrtCount)
Received : 09 May 2024
Tested : 10 May 2024
Diagnosed : 12 May 2024 - Don Baldridge

Certificate L2367

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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)