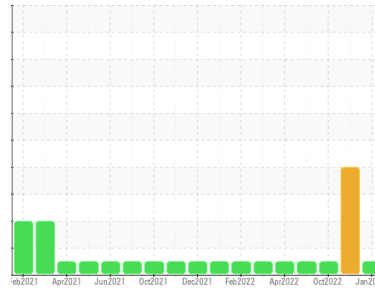




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
[CONHER]
 Machine Id
Flota Barda - Barda1
 Component
Diesel Engine
 Fluid
MOBIL 15W40 (160 LTR)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

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.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		KL0010221	KL0011307	KL0010192
Sample Date	Client Info		23 Jan 2023	06 Dec 2022	26 Oct 2022
Machine Age	hrs	Client Info	7887	7577	6856
Oil Age	hrs	Client Info	1155	845	124
Oil Changed	Client Info		Not Chngd	Not Chngd	Not Chngd
Sample Status			NORMAL	ABNORMAL	NORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<1.0	<1.0	<1.0
Glycol	WC Method		NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	16	68	32
Chromium	ppm	ASTM D5185m >20	<1	1	<1
Nickel	ppm	ASTM D5185m >2	0	<1	0
Titanium	ppm	ASTM D5185m >2	0	<1	0
Silver	ppm	ASTM D5185m >2	0	0	0
Aluminum	ppm	ASTM D5185m >25	0	3	<1
Lead	ppm	ASTM D5185m >40	<1	10	<1
Copper	ppm	ASTM D5185m >330	1	7	4
Tin	ppm	ASTM D5185m >15	<1	2	0
Vanadium	ppm	ASTM D5185m	0	0	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	23	28
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	60	33	20
Manganese	ppm	ASTM D5185m	<1	<1	<1
Magnesium	ppm	ASTM D5185m	961	878	746
Calcium	ppm	ASTM D5185m	1134	1345	1275
Phosphorus	ppm	ASTM D5185m	1077	934	771
Zinc	ppm	ASTM D5185m	1285	1056	917
Sulfur	ppm	ASTM D5185m	3245	3552	2820

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	5	13	14
Sodium	ppm	ASTM D5185m >118	1	6	5
Potassium	ppm	ASTM D5185m >20	1	<1	2

INFRA-RED

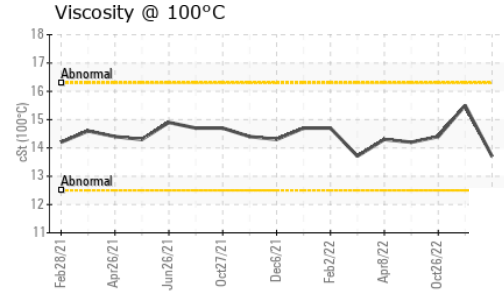
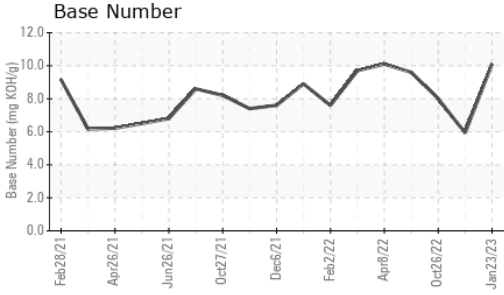
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	0.3	0.9	0.6
Nitration	Abs/cm	*ASTM D7624 >20	8.8	14.6	12.6
Sulfation	Abs/.1mm	*ASTM D7415 >30	21.7	30	26.1

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	18.5	30.6	22.9
Base Number (BN)	mg KOH/g	ASTM D2896	10.1	5.93	8



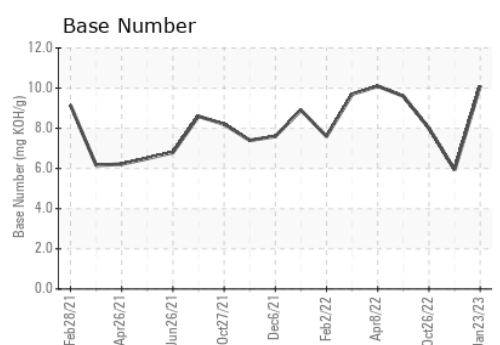
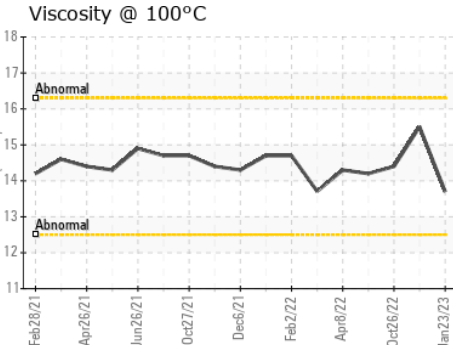
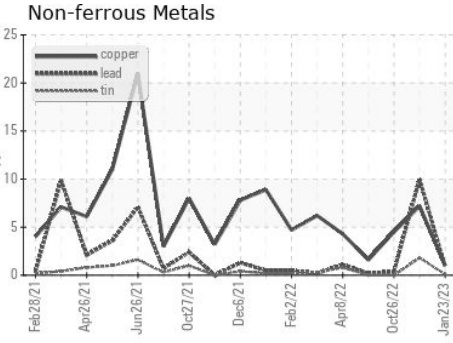
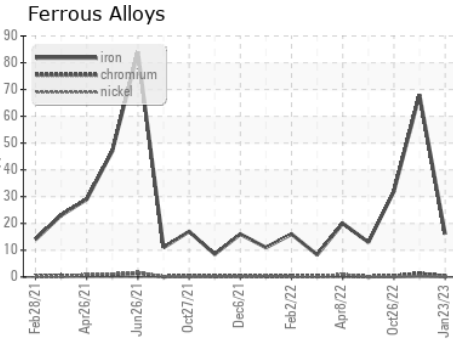
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	13.7	15.5	14.4

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0010221 **Received** : 01 Feb 2023
Lab Number : **05755980** **Diagnosed** : 02 Feb 2023
Unique Number : 10320587 **Diagnostician** : Jonathan Hester
Test Package : FLEET

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)

CONOR
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