



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
GUAY SON [CONHER]
Machine Id
IBACO BM IBACO BM LOPEZ VENTURA AUX-1
Component
Diesel Engine
Fluid
RALOY 15W40 (8 LTR)

RECOMMENDATION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		KL0014179	KL0014130	KL0013316
Sample Date		Client Info		20 Mar 2024	06 Feb 2024	20 Oct 2023
Machine Age	hrs	Client Info		0	0	16228
Oil Age	hrs	Client Info		160	144	1400
Filter Age	hrs	Client Info		160	144	1400
Oil Changed		Client Info		Not Chngd	Changed	Not Chngd
Filter Changed		Client Info		Not Chngd	Changed	Not Chngd
Sample Status				NORMAL	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	21	22	72
Chromium	ppm	ASTM D5185m	>20	<1	<1	2
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	2	2
Lead	ppm	ASTM D5185m	>40	1	1	1
Copper	ppm	ASTM D5185m	>330	1	<1	1
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

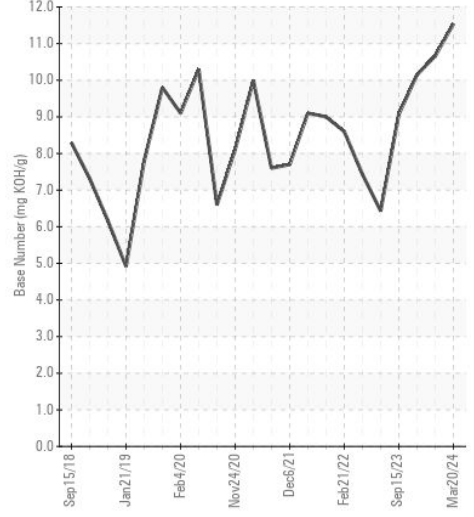
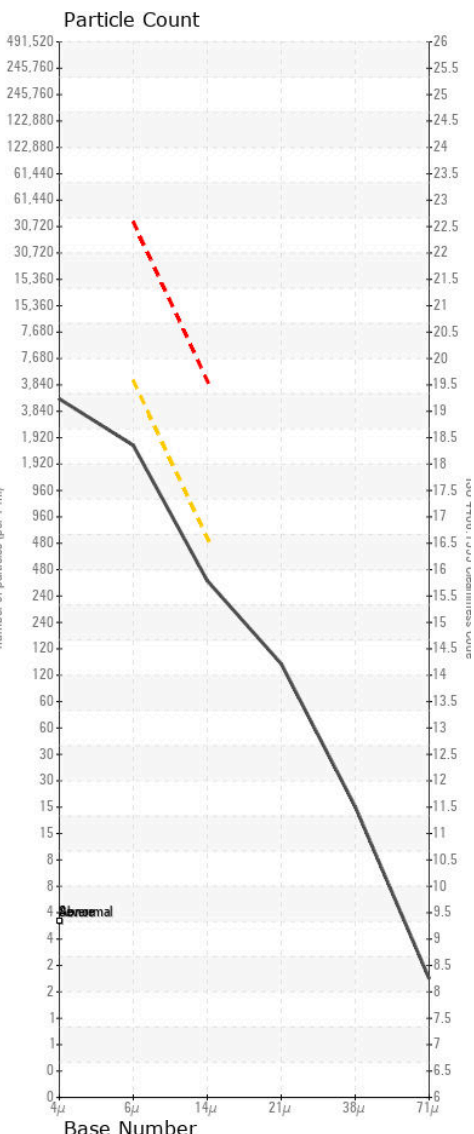
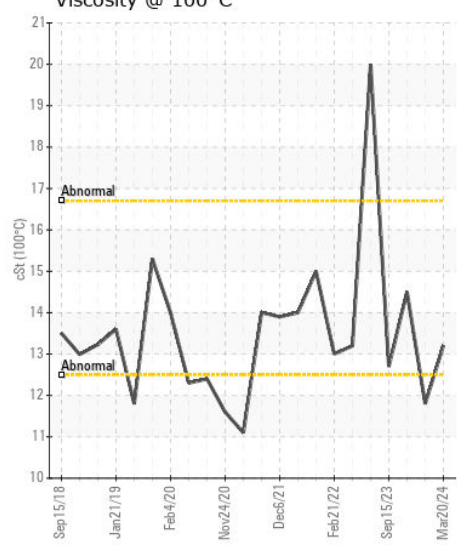
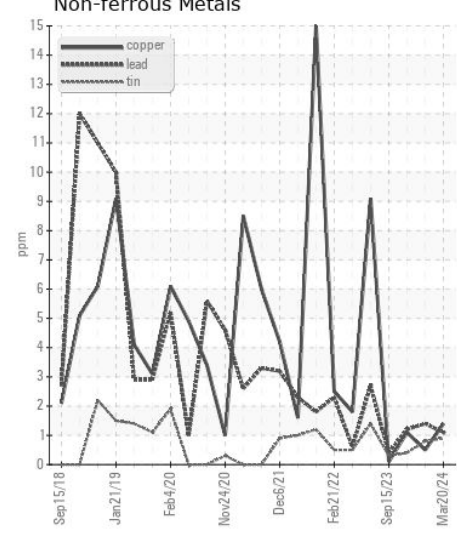
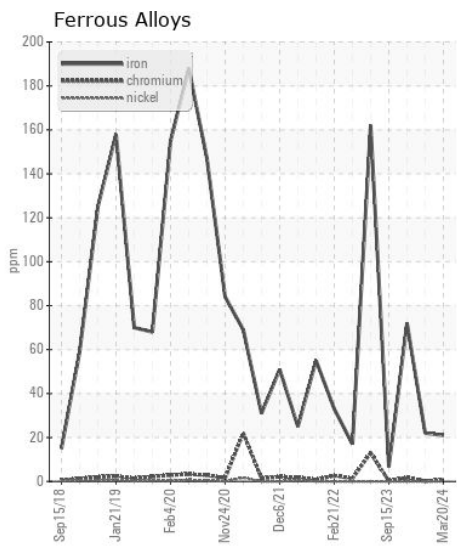
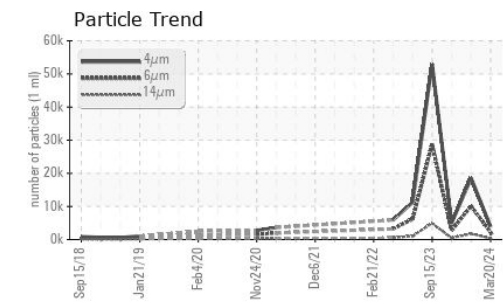
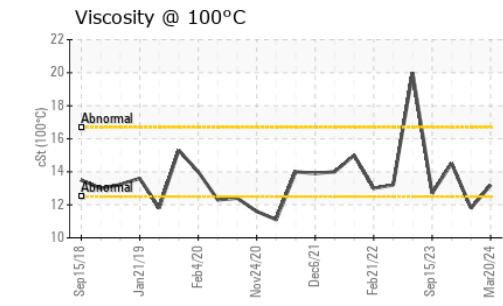
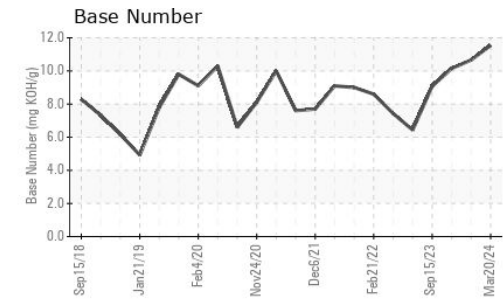
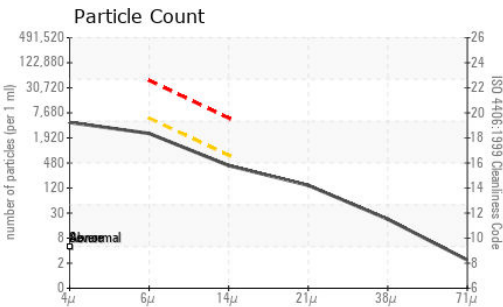
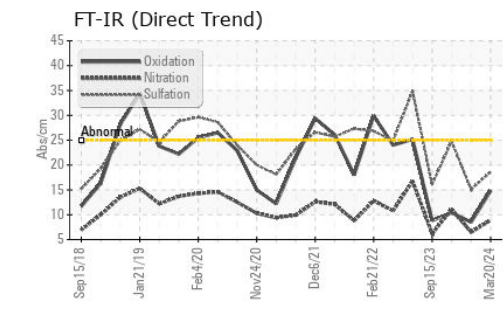
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>25	12	9	12
Potassium	ppm	ASTM D5185m	>20	0	2	3
Fuel		WC Method	>5	<1.0	▲ 2.7	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.8	0.6	▲ 4.9
Nitration	Abs/cm	*ASTM D7624	>20	8.9	6.5	11.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.6	15.1	24.8
Particles >4µm		ASTM D7647		3941	18582	4994
Particles >6µm		ASTM D7647	>5000	2147	▲ 10123	2720
Particles >14µm		ASTM D7647	>640	365	▲ 1723	463
Particles >21µm		ASTM D7647	>160	123	▲ 580	156
Particles >38µm		ASTM D7647	>40	19	▲ 90	24
Particles >71µm		ASTM D7647	>10	2	9	2
Oil Cleanliness		ISO 4406 (c)	>19/16	18/16	▲ 21/18	19/16
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

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.

Sodium	ppm	ASTM D5185m		<1	0	1
Boron	ppm	ASTM D5185m		46	0	2
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		37	0	2
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		22	4	16
Calcium	ppm	ASTM D5185m		3684	2566	2826
Phosphorus	ppm	ASTM D5185m		938	1031	1096
Zinc	ppm	ASTM D5185m		1097	1246	1487
Sulfur	ppm	ASTM D5185m		3805	3006	3455
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.8	8.5	10.4
Base Number (BN)	mg KOH/g	ASTM D2896		11.54	10.66	10.15
Visc @ 100°C	cSt	ASTM D445		13.2	● 11.8	14.5



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0014179 **Received** : 18 Apr 2024
Lab Number : 06153316 **Tested** : 23 Apr 2024
Unique Number : 10983394 **Diagnosed** : 23 Apr 2024 - Jonathan Hester
Test Package : MOB 2 (Additional Tests: PrtCount)

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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)