



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

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

RECOMMENDATION

We recommend you service the filters on this component. 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		KL0014209	KL0014142	KL0012876
Sample Date		Client Info		20 Mar 2024	06 Feb 2024	21 Sep 2023
Machine Age	hrs	Client Info		0	0	19645
Oil Age	hrs	Client Info		120	24	28
Filter Age	hrs	Client Info		120	24	28
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Filter Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				ABNORMAL	NORMAL	ATTENTION

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	23	1	8
Chromium	ppm	ASTM D5185m	>20	2	0	2
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	5	1	4
Lead	ppm	ASTM D5185m	>40	<1	<1	<1
Copper	ppm	ASTM D5185m	>330	1	0	<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

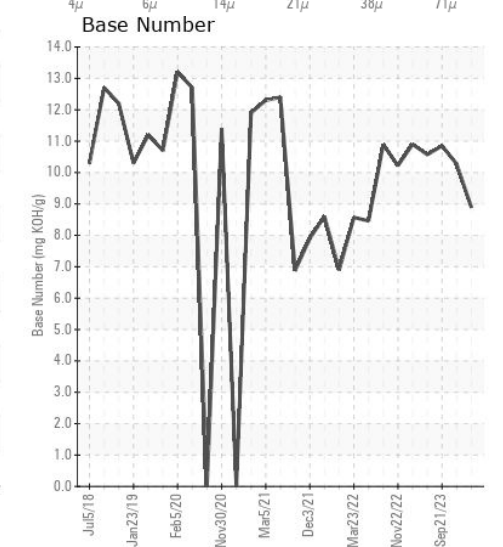
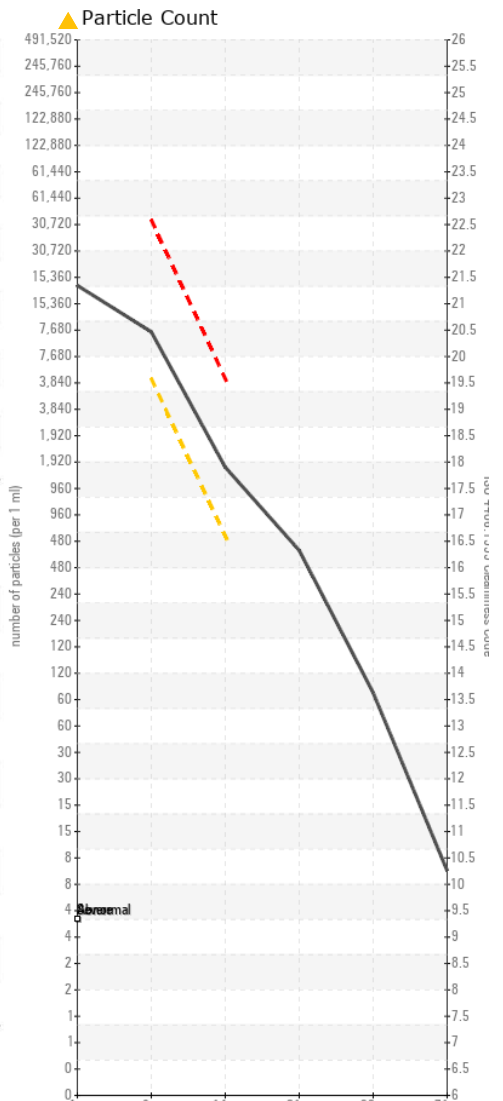
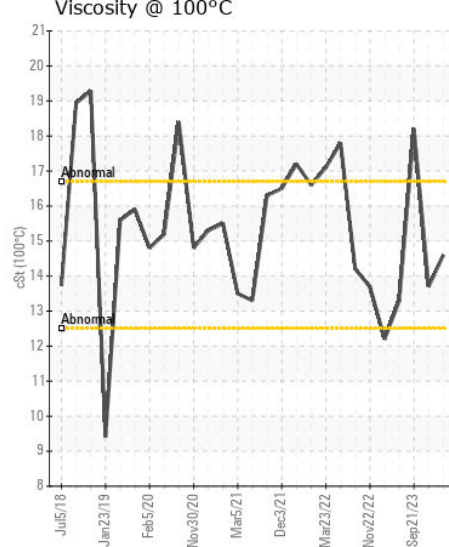
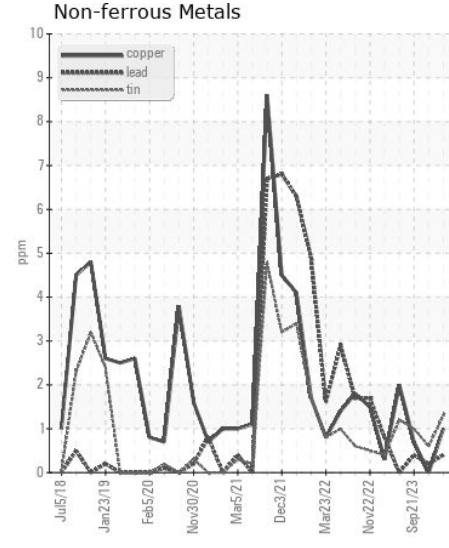
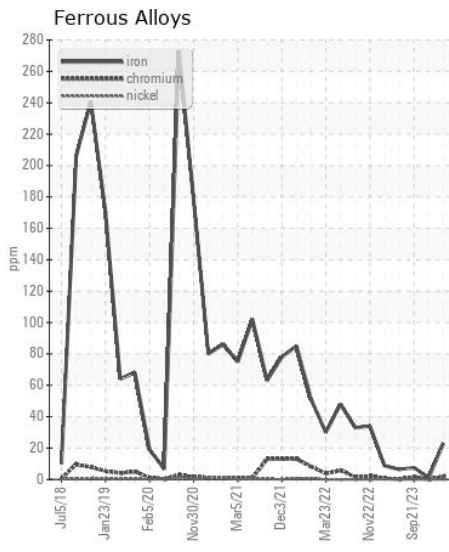
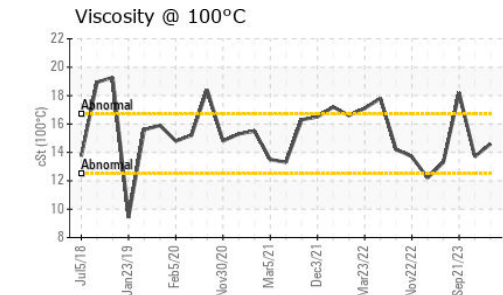
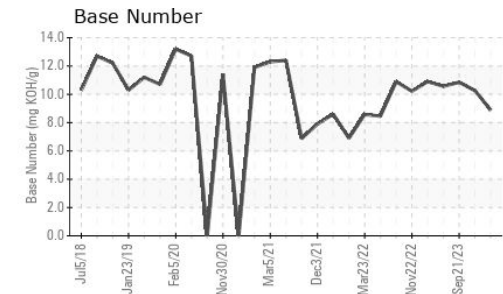
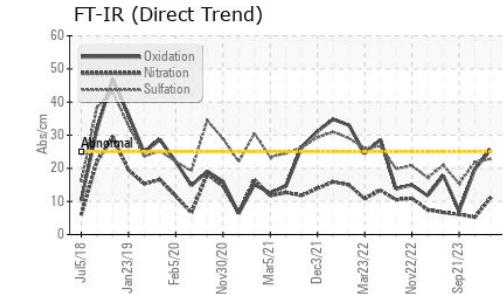
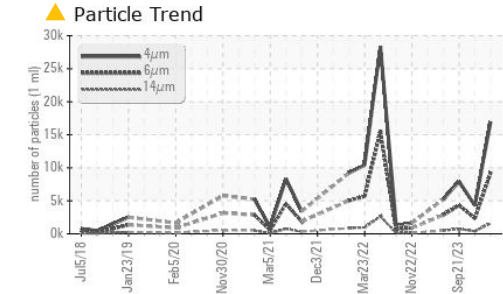
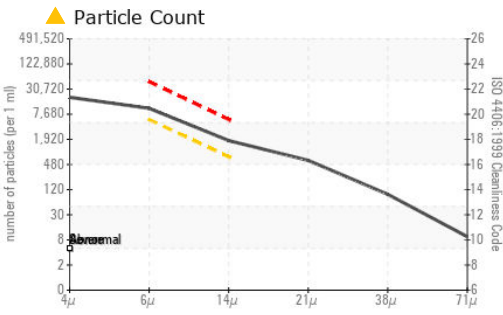
There is a high amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>25	11	6	7
Potassium	ppm	ASTM D5185m	>20	0	<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	0.2	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	11.1	5.2	6.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.8	21.8	15.4
Particles >4µm		ASTM D7647		16938	4306	7908
Particles >6µm		ASTM D7647	>5000	▲ 9227	2346	4308
Particles >14µm		ASTM D7647	>640	▲ 1570	399	733
Particles >21µm		ASTM D7647	>160	▲ 529	134	247
Particles >38µm		ASTM D7647	>40	▲ 82	21	38
Particles >71µm		ASTM D7647	>10	8	2	4
Oil Cleanliness		ISO 4406 (c)	>19/16	▲ 20/18	18/16	19/17
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		2	<1	2
Boron	ppm	ASTM D5185m		47	60	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		37	39	1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		441	465	14
Calcium	ppm	ASTM D5185m		2166	1509	3381
Phosphorus	ppm	ASTM D5185m		991	821	867
Zinc	ppm	ASTM D5185m		1233	1015	1015
Sulfur	ppm	ASTM D5185m		3348	2568	5411
Oxidation	Abs/.1mm	*ASTM D7414	>25	25.6	19.7	7.1
Base Number (BN)	mg KOH/g	ASTM D2896		8.89	10.27	10.85
Visc @ 100°C	cSt	ASTM D445		14.6	13.7	18.2



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0014209 **Received** : 18 Apr 2024
Lab Number : 06153285 **Tested** : 23 Apr 2024
Unique Number : 10983363 **Diagnosed** : 23 Apr 2024 - Don Baldrige
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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