



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL



Area
GUAY SON [CONHER]
Machine Id
CATERPILLAR CHUYITO XXVIII - IBACO
Component
Transmission (Manual)
Fluid
RALOY SAE 50 (60 LTR)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor. (Customer Sample Comment: Fluid: Raloy SAE 50)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		KL0014211	KL0014141	KL0013377
Sample Date		Client Info		20 Mar 2024	06 Feb 2024	08 Nov 2023
Machine Age	hrs	Client Info		17535	16897	15710
Oil Age	hrs	Client Info		1065	427	740
Filter Age	hrs	Client Info		1065	427	740
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ATTENTION	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>200	<1	2	0
Chromium	ppm	ASTM D5185m	>5	0	0	0
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>7	0	0	0
Aluminum	ppm	ASTM D5185m	>25	0	0	0
Lead	ppm	ASTM D5185m	>45	<1	<1	2
Copper	ppm	ASTM D5185m	>225	5	5	10
Tin	ppm	ASTM D5185m	>10	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

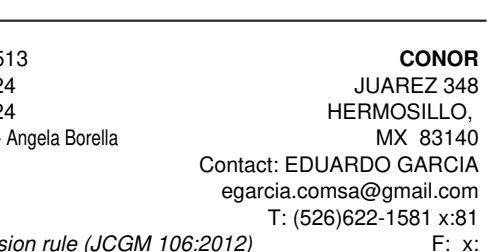
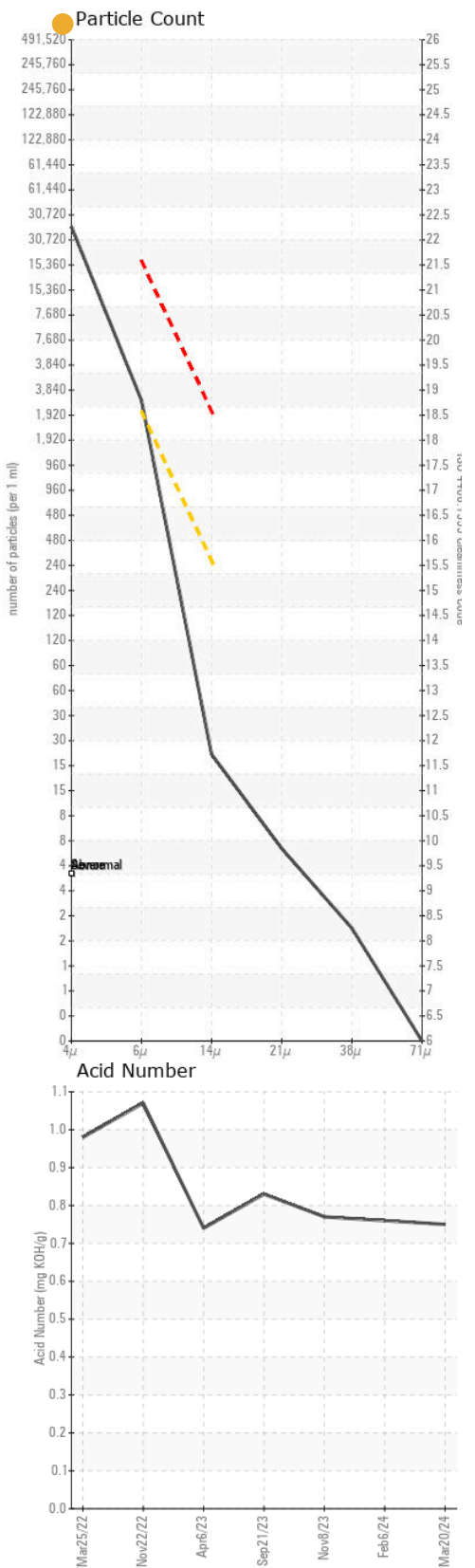
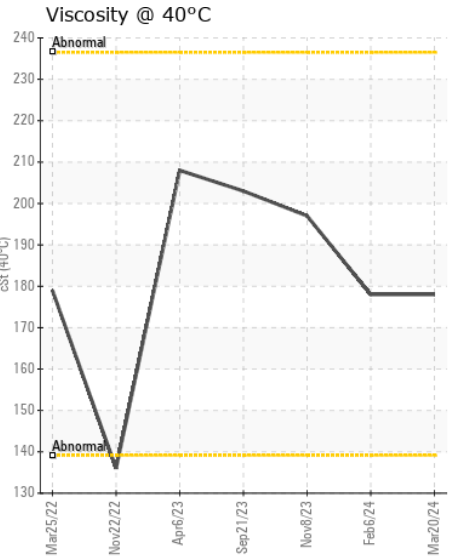
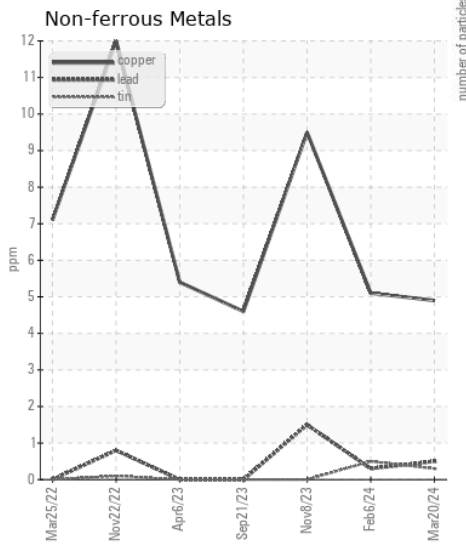
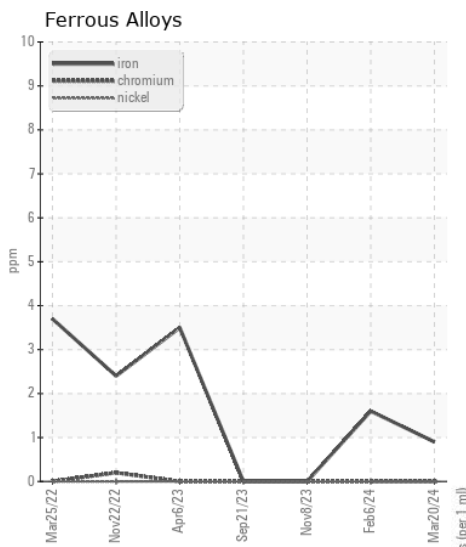
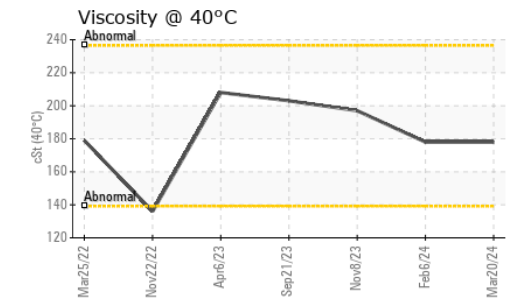
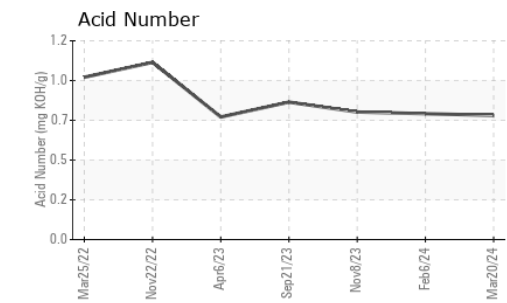
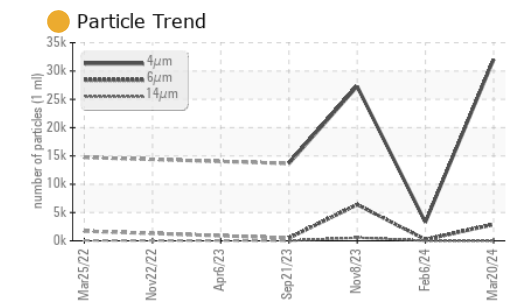
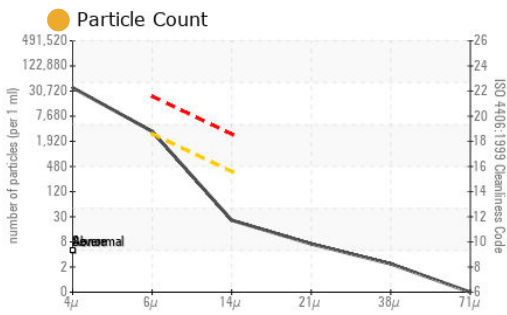
There is a moderate amount of particulates present in the fluid.

Silicon	ppm	ASTM D5185m	>125	9	7	10
Potassium	ppm	ASTM D5185m	>20	0	0	0
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647		32031	3285	27289
Particles >6µm		ASTM D7647	>2500	2903	219	6398
Particles >14µm		ASTM D7647	>320	22	10	556
Particles >21µm		ASTM D7647	>80	6	8	132
Particles >38µm		ASTM D7647	>20	2	1	2
Particles >71µm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>18/15	19/12	15/10	20/16
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	>0.1	NEG	NEG	NEG

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the fluid is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		2	<1	2
Boron	ppm	ASTM D5185m		10	8	2
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		4	5	<1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		24	24	7
Calcium	ppm	ASTM D5185m		3050	2706	3475
Phosphorus	ppm	ASTM D5185m		924	813	977
Zinc	ppm	ASTM D5185m		799	720	852
Sulfur	ppm	ASTM D5185m		6800	4965	6526
Acid Number (AN)	mg KOH/g	ASTM D8045		0.75	0.76	0.77
Visc @ 40°C	cSt	ASTM D445		178	178	197



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0014211 **Received** : 18 Apr 2024
Lab Number : 06153090 **Tested** : 19 Apr 2024
Unique Number : 10983168 **Diagnosed** : 22 Apr 2024 - Angela Borella
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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