



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
GUAY SON [CONHER]
Machine Id
BM CHUYITO 29 IBACO
Component
Transmission (Manual)
Fluid
RALYO SAE 50 (60 LTR)

RECOMMENDATION

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		KL0014520	KL0014124	KL0013413
Sample Date		Client Info		20 Mar 2024	06 Feb 2024	14 Nov 2023
Machine Age	hrs	Client Info		0	0	11578
Oil Age	hrs	Client Info		846	446	750
Filter Age	hrs	Client Info		846	446	750
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>200	3	2	4
Chromium	ppm	ASTM D5185m	>5	0	0	0
Nickel	ppm	ASTM D5185m	>5	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>7	0	0	0
Aluminum	ppm	ASTM D5185m	>25	0	0	<1
Lead	ppm	ASTM D5185m	>45	<1	<1	1
Copper	ppm	ASTM D5185m	>225	6	5	13
Tin	ppm	ASTM D5185m	>10	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

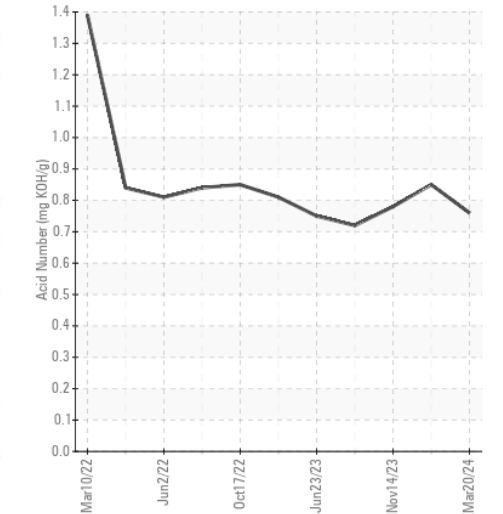
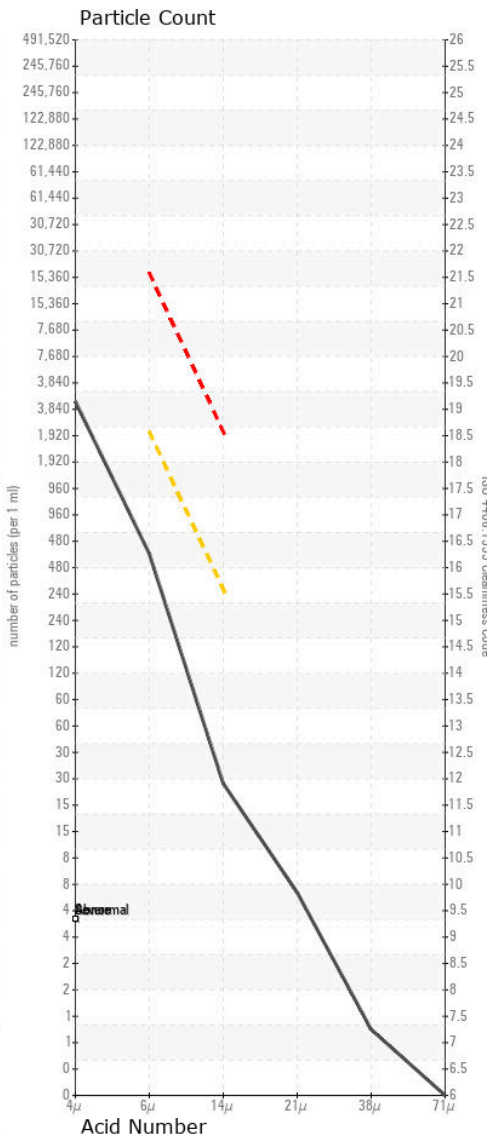
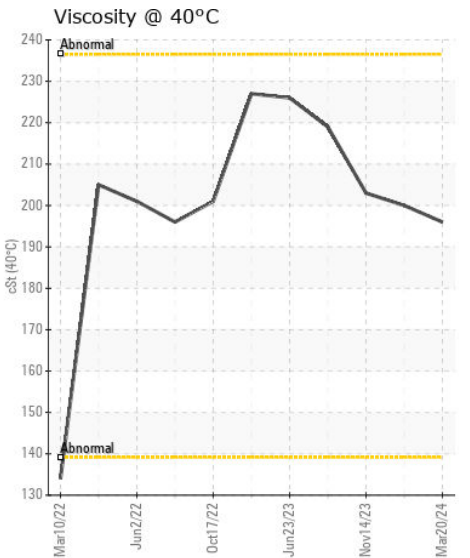
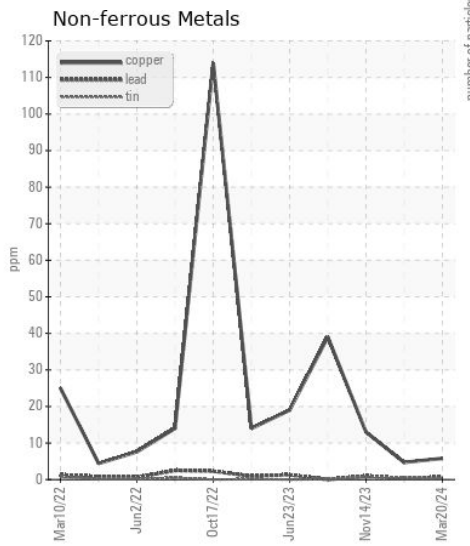
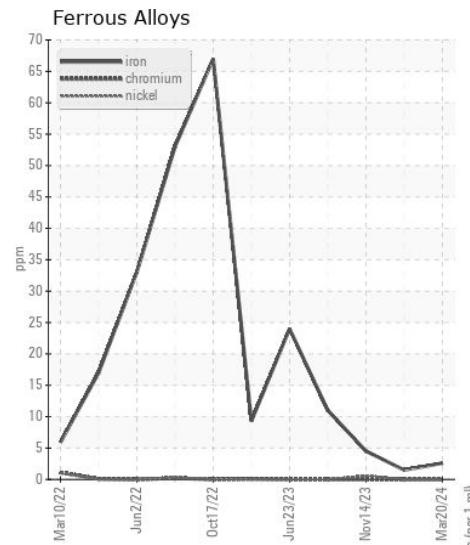
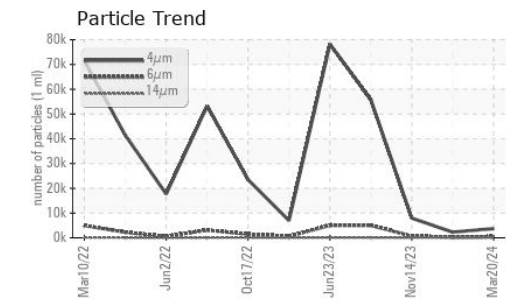
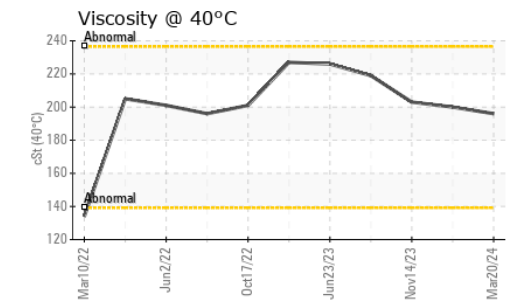
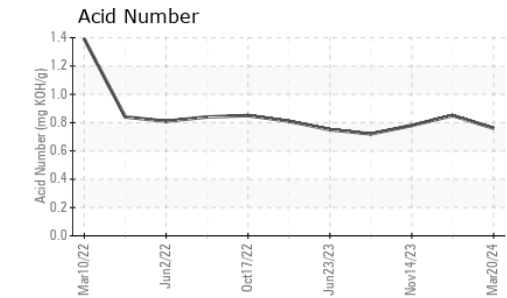
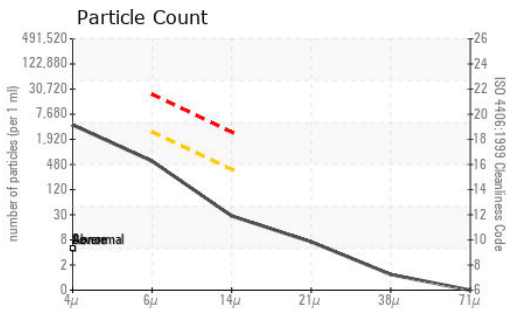
There is no indication of any contamination in the fluid. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>125	7	6	6
Potassium	ppm	ASTM D5185m	>20	0	0	1
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647		3718	2298	7952
Particles >6µm		ASTM D7647	>2500	506	315	633
Particles >14µm		ASTM D7647	>320	25	19	56
Particles >21µm		ASTM D7647	>80	6	5	13
Particles >38µm		ASTM D7647	>20	1	0	0
Particles >71µm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>18/15	16/12	15/11	16/13
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	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 suitable for further service.

Sodium	ppm	ASTM D5185m		2	<1	0
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		7	5	9
Calcium	ppm	ASTM D5185m		3400	3133	3331
Phosphorus	ppm	ASTM D5185m		1012	898	1003
Zinc	ppm	ASTM D5185m		840	767	876
Sulfur	ppm	ASTM D5185m		7649	5790	6639
Acid Number (AN)	mg KOH/g	ASTM D8045		0.76	0.85	0.78
Visc @ 40°C	cSt	ASTM D445		196	200	203



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0014520 **Received** : 18 Apr 2024
Lab Number : 06153087 **Tested** : 19 Apr 2024
Unique Number : 10983165 **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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