



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

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

RECOMMENDATION

We recommend you service the filters on this component. 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		KL0014177	KL0014144	KL0013353
Sample Date		Client Info		20 Mar 2024	06 Feb 2024	01 Nov 2023
Machine Age	hrs	Client Info		0	12610	12090
Oil Age	hrs	Client Info		0	520	1590
Filter Age	hrs	Client Info		0	520	1590
Oil Changed		Client Info		N/A	Not Changd	Changed
Filter Changed		Client Info		N/A	Not Changd	Changed
Sample Status				ABNORMAL	NORMAL	ATTENTION

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>200	3	1	2
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	<1
Lead	ppm	ASTM D5185m	>45	3	1	2
Copper	ppm	ASTM D5185m	>225	81	7	16
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

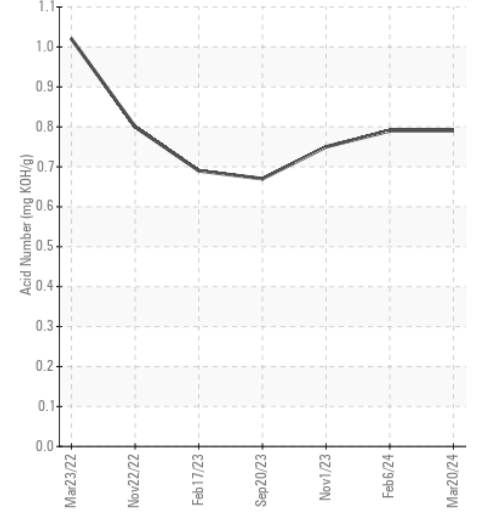
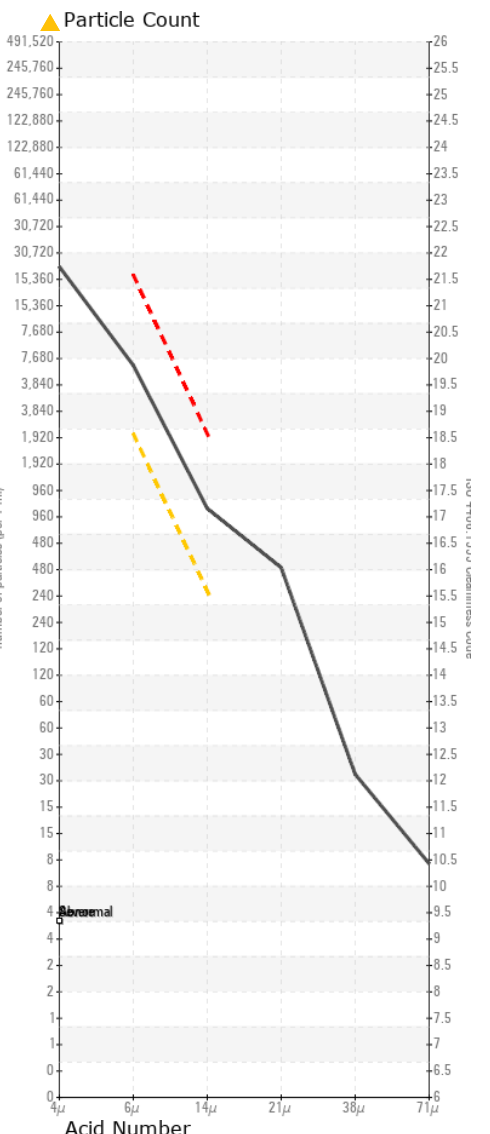
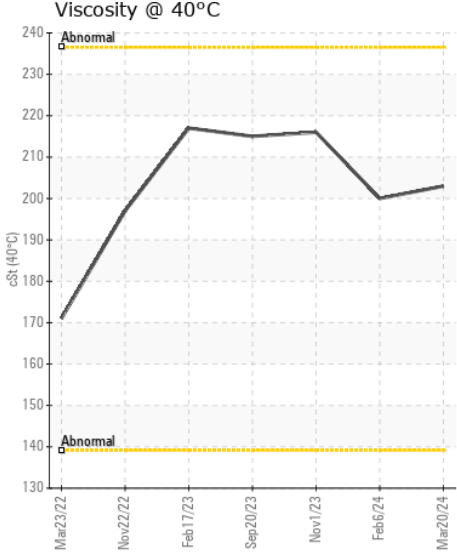
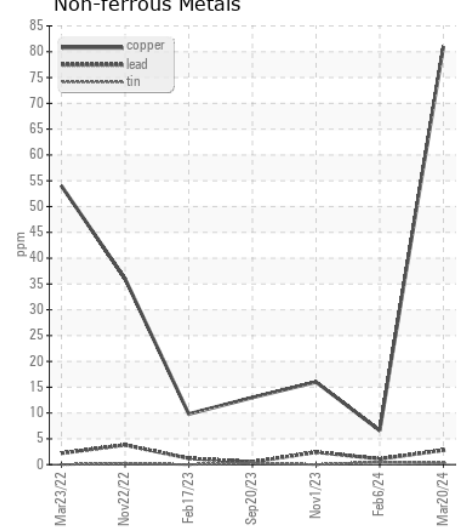
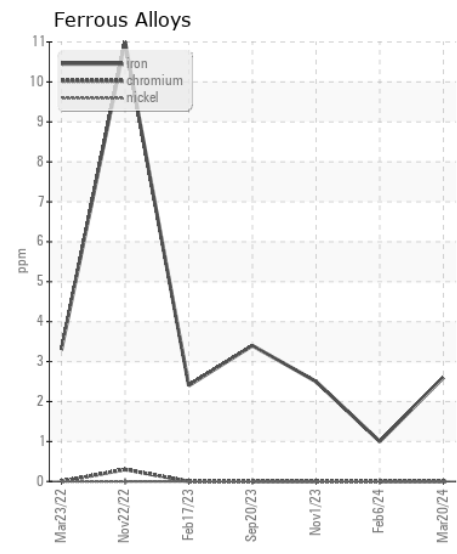
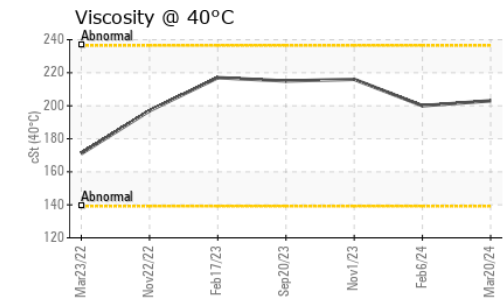
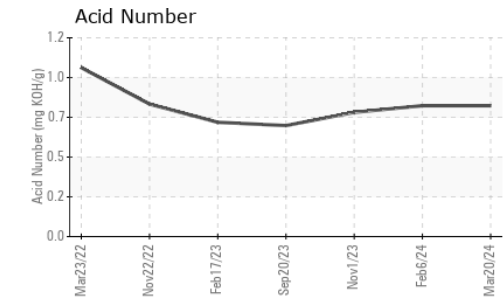
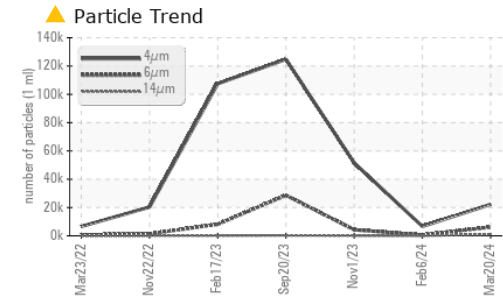
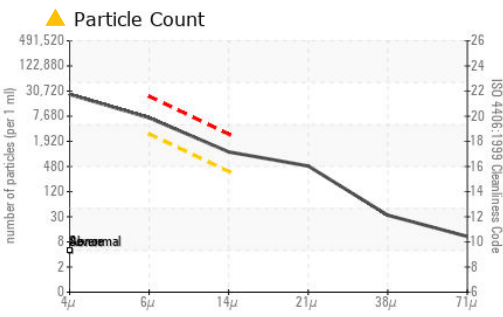
There is a high amount of particulates present in the fluid.

Silicon	ppm	ASTM D5185m	>125	7	8	5
Potassium	ppm	ASTM D5185m	>20	2	0	0
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647		22253	6638	51549
Particles >6µm		ASTM D7647	>2500	▲ 6117	562	● 4305
Particles >14µm		ASTM D7647	>320	▲ 940	25	72
Particles >21µm		ASTM D7647	>80	▲ 433	7	13
Particles >38µm		ASTM D7647	>20	● 29	0	1
Particles >71µm		ASTM D7647	>4	● 9	0	0
Oil Cleanliness		ISO 4406 (c)	>18/15	▲ 20/17	16/12	● 19/13
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 suitable for further service.

Sodium	ppm	ASTM D5185m		34	1	3
Boron	ppm	ASTM D5185m		1	1	8
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	<1	1
Manganese	ppm	ASTM D5185m		1	<1	<1
Magnesium	ppm	ASTM D5185m		16	6	14
Calcium	ppm	ASTM D5185m		3424	3142	3301
Phosphorus	ppm	ASTM D5185m		1037	895	970
Zinc	ppm	ASTM D5185m		809	760	808
Sulfur	ppm	ASTM D5185m		7874	5946	5499
Acid Number (AN)	mg KOH/g	ASTM D8045		0.79	0.79	0.75
Visc @ 40°C	cSt	ASTM D445		203	200	216



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0014177
Lab Number : 06153078
Unique Number : 10983156
Test Package : MOB 2 (Additional Tests: PrtCount)

Received : 18 Apr 2024
Tested : 19 Apr 2024
Diagnosed : 22 Apr 2024 - Angela Borella

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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