



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
GUAY SON [CONHER]
Machine Id
BM SONORENSE II MAIN ENGINE
Component
Bottom Transmission (Manual)
Fluid
RALYO SAE 50 (40 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		KL0014183	KL0014135	KL0013410
Sample Date		Client Info		20 Mar 2024	06 Feb 2024	14 Nov 2023
Machine Age	hrs	Client Info		12146	11664	10628
Oil Age	hrs	Client Info		482	1536	500
Filter Age	hrs	Client Info		482	1536	500
Oil Changed		Client Info		Not Changed	Changed	Not Changed
Filter Changed		Client Info		Not Changed	Changed	Not Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

The iron level has decreased, but is still abnormal. All other component wear rates are normal.

Iron	ppm	ASTM D5185m	>200	▲ 282	▲ 417	192
Chromium	ppm	ASTM D5185m	>5	1	2	<1
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	<1	<1
Lead	ppm	ASTM D5185m	>45	1	3	4
Copper	ppm	ASTM D5185m	>225	4	10	6
Tin	ppm	ASTM D5185m	>10	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

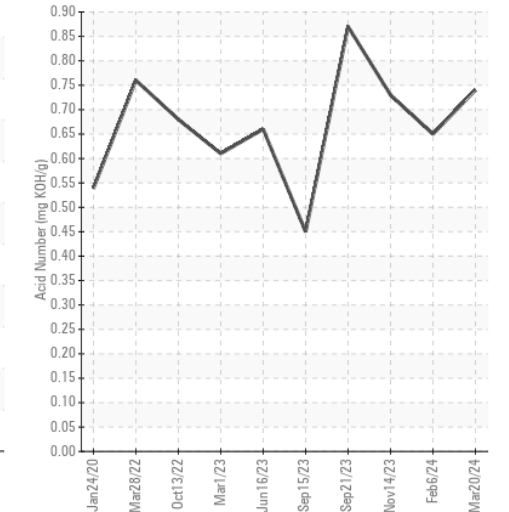
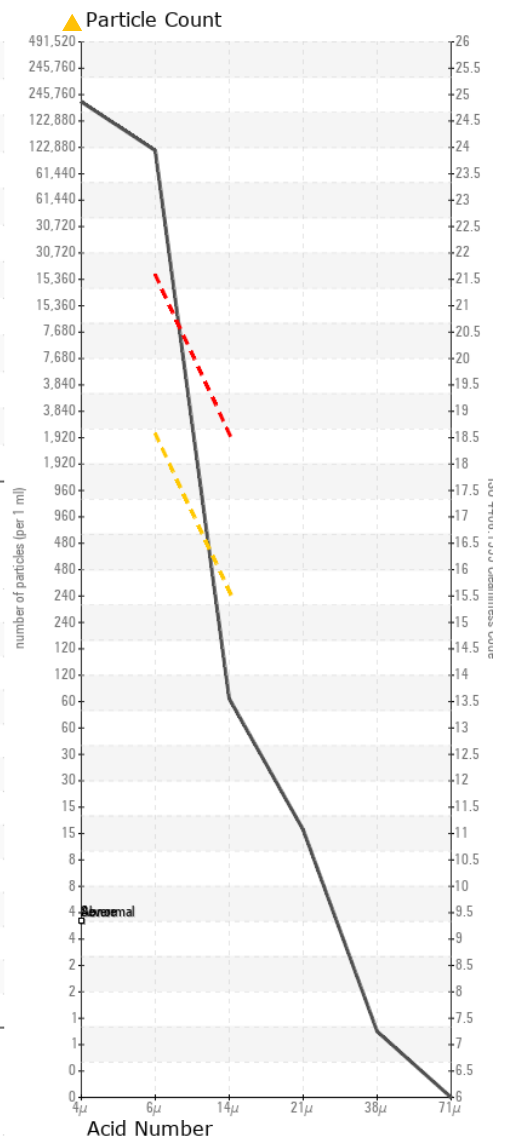
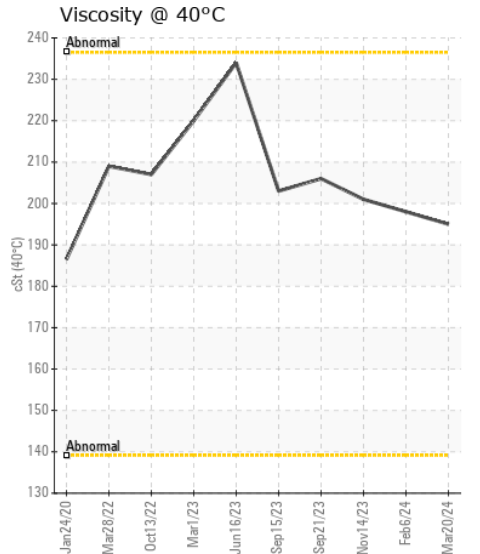
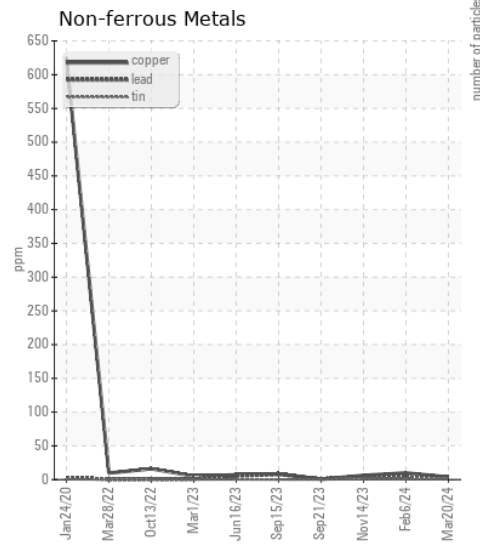
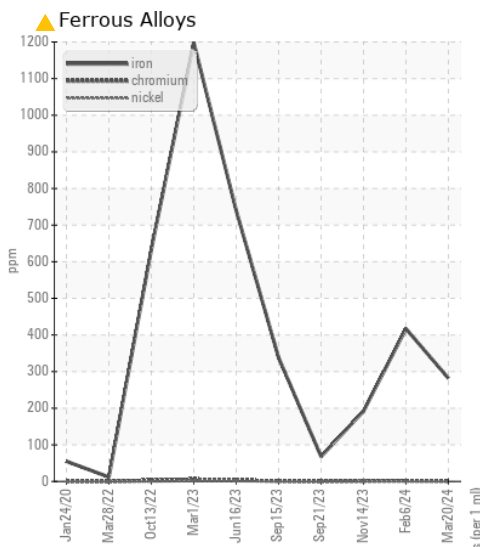
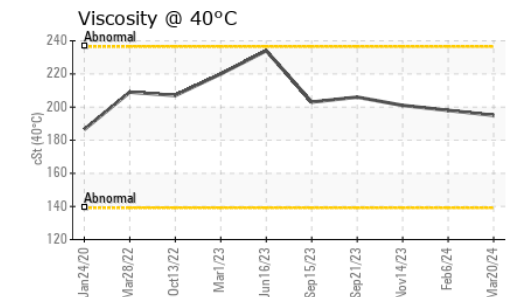
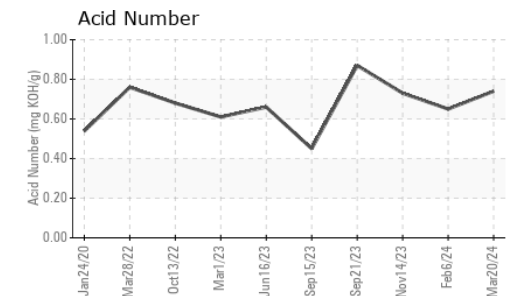
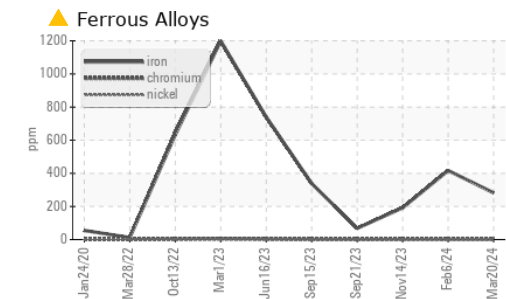
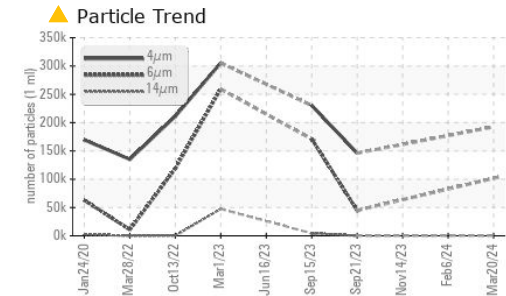
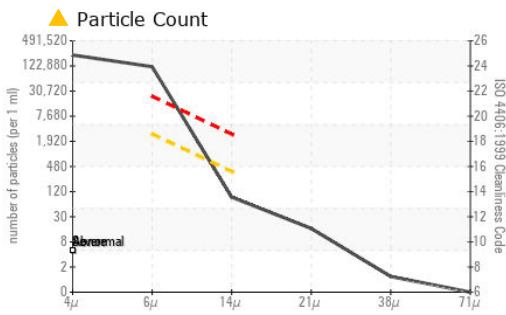
There is a high amount of silt (particulates < 14 microns in size) present in the fluid.

Silicon	ppm	ASTM D5185m	>125	8	11	9
Potassium	ppm	ASTM D5185m	>20	0	0	1
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647		192500	---	---
Particles >6µm		ASTM D7647	>2500	▲ 101664	---	---
Particles >14µm		ASTM D7647	>320	78	---	---
Particles >21µm		ASTM D7647	>80	14	---	---
Particles >38µm		ASTM D7647	>20	1	---	---
Particles >71µm		ASTM D7647	>4	0	---	---
Oil Cleanliness		ISO 4406 (c)	>18/15	▲ 24/13	---	---
Silt	scalar	*Visual	NONE	LIGHT	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	▲ MODER	▲ HEAVY
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	0
Boron	ppm	ASTM D5185m		0	1	<1
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	<1	0
Manganese	ppm	ASTM D5185m		4	4	2
Magnesium	ppm	ASTM D5185m		7	6	8
Calcium	ppm	ASTM D5185m		3273	3215	3296
Phosphorus	ppm	ASTM D5185m		990	905	986
Zinc	ppm	ASTM D5185m		816	718	810
Sulfur	ppm	ASTM D5185m		7679	6132	6611
Acid Number (AN)	mg KOH/g	ASTM D8045		0.74	0.65	0.73
Visc @ 40°C	cSt	ASTM D445		195	198	201



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : KL0014183
 Lab Number : 06153074
 Unique Number : 10983152
 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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