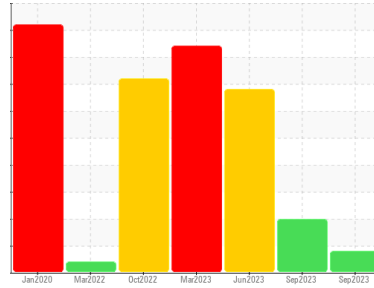




PROBLEM SUMMARY

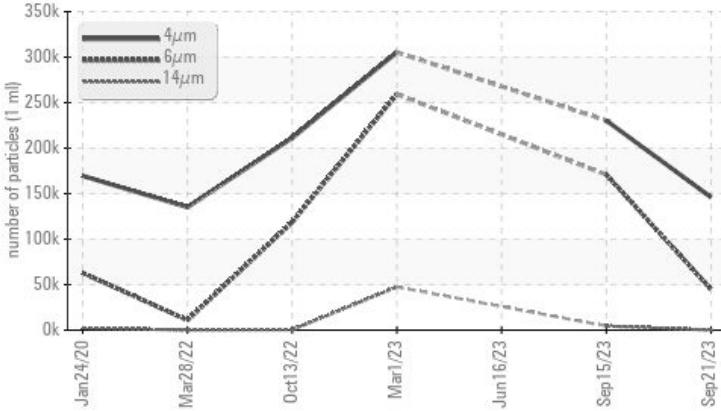
Area
GUAY SON [CONHER]
 Machine Id
BM SONORENSE II MAIN ENGINE
 Component
Bottom Transmission (Manual)
 Fluid
RALLOY SAE 50 (--- LTR)

Sample Rating Trend



COMPONENT CONDITION SUMMARY

▲ Particle Trend



RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor. (Customer Sample Comment: Please Add particule count)

PROBLEMATIC TEST RESULTS

Sample Status		ABNORMAL	ABNORMAL	SEVERE
Particles >6µm	ASTM D7647 >2500	▲ 44967	▲ 170885	---
Oil Cleanliness	ISO 4406 (c) >18/15	▲ 23/12	▲ 25/19	---

Customer Id: CONHERKL
 Sample No.: KL0012274
 Lab Number: 05964564
 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Don Baldrige +1
don.b505@comcast.net

To change component or sample information:
 Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

15 Sep 2023 Diag: Don Baldrige

WEAR



We recommend you service the filters on this component. Resample at the next service interval to monitor. The iron level has decreased, but is still abnormal. All other component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the fluid. The AN level is acceptable for this fluid. The condition of the fluid is acceptable for the time in service.

view report



16 Jun 2023 Diag: Angela Borella

WEAR



We recommend that you drain the fluid and perform a filter service on this component if not already done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. We were unable to perform a particle count due to a high concentration of particles present in this sample. Gear wear is indicated. There is a high amount of visible silt present in the sample. The AN level is acceptable for this fluid. The fluid is no longer serviceable as a result of the abnormal and/or severe wear.

view report



01 Mar 2023 Diag: Jonathan Hester

WEAR



We recommend that you drain the fluid and perform a filter service on this component if not already done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Gear wear is indicated. There is a high amount of particulates present in the fluid. The AN level is acceptable for this fluid. The fluid is no longer serviceable as a result of the abnormal and/or severe wear.

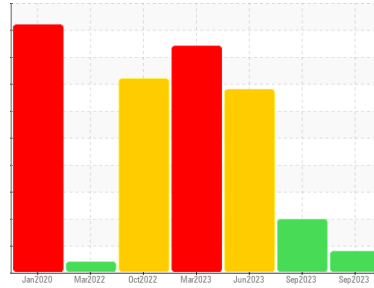
view report





OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area
GUAY SON [CONHER]
 Machine Id
BM SONORENSE II MAIN ENGINE
 Component
Bottom Transmission (Manual)
 Fluid
RALYO SAE 50 (--- LTR)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor. (Customer Sample Comment: Please Add particule count)

Wear

All component wear rates are normal.

Contamination

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

Fluid Condition

The AN level is acceptable for this fluid. The condition of the fluid is suitable for further service.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	KL0012274	KL0012804	KL0012383
Sample Date	Client Info	21 Sep 2023	15 Sep 2023	16 Jun 2023
Machine Age	hrs	9848	9848	9838
Oil Age	hrs	0	1120	3
Oil Changed	Client Info	Not Chngd	Not Chngd	Not Chngd
Sample Status		ABNORMAL	ABNORMAL	SEVERE

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm	ASTM D5185m >200	68	▲ 338	● 740
Chromium ppm	ASTM D5185m >5	<1	1	3
Nickel ppm	ASTM D5185m >5	0	0	<1
Titanium ppm	ASTM D5185m	0	0	<1
Silver ppm	ASTM D5185m >7	0	0	0
Aluminum ppm	ASTM D5185m >25	<1	<1	5
Lead ppm	ASTM D5185m >45	<1	8	5
Copper ppm	ASTM D5185m >225	<1	9	7
Tin ppm	ASTM D5185m >10	<1	0	<1
Vanadium ppm	ASTM D5185m	0	0	<1
Cadmium ppm	ASTM D5185m	0	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron ppm	ASTM D5185m	0	0	0
Barium ppm	ASTM D5185m	0	0	0
Molybdenum ppm	ASTM D5185m	0	<1	<1
Manganese ppm	ASTM D5185m	1	3	7
Magnesium ppm	ASTM D5185m	13	9	29
Calcium ppm	ASTM D5185m	3492	2791	3206
Phosphorus ppm	ASTM D5185m	986	732	861
Zinc ppm	ASTM D5185m	867	665	778
Sulfur ppm	ASTM D5185m	6693	5553	6712

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm	ASTM D5185m >125	18	8	14
Sodium ppm	ASTM D5185m	0	<1	2
Potassium ppm	ASTM D5185m >20	0	<1	3

FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	146025	230295	---
Particles >6µm	ASTM D7647 >2500	▲ 44967	▲ 170885	---
Particles >14µm	ASTM D7647 >320	34	▲ 4455	---
Particles >21µm	ASTM D7647 >80	8	18	---
Particles >38µm	ASTM D7647 >20	1	1	---
Particles >71µm	ASTM D7647 >4	1	1	---
Oil Cleanliness	ISO 4406 (c) >18/15	▲ 23/12	▲ 25/19	---

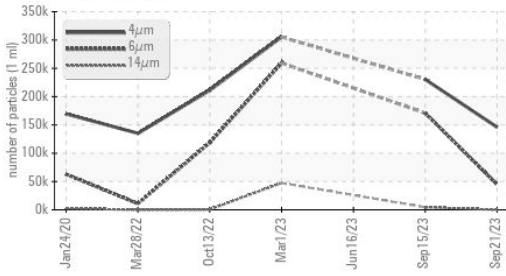
FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g	ASTM D8045	0.87	0.45	0.66

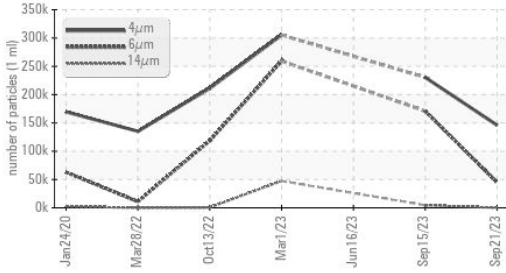


OIL ANALYSIS REPORT

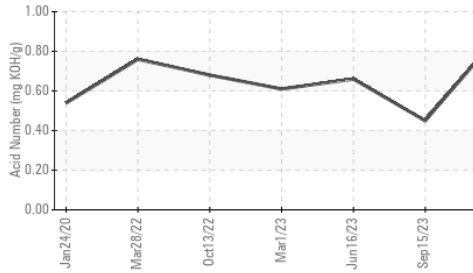
Particle Trend



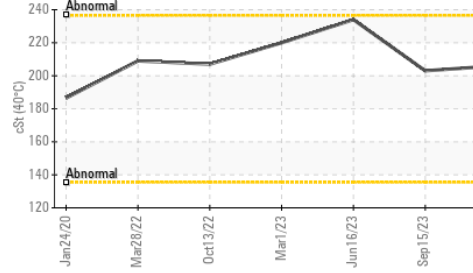
Particle Trend



Acid Number



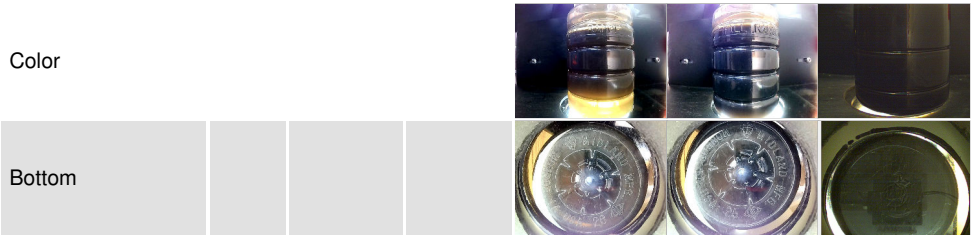
Viscosity @ 40°C



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	▲ HEAVY
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

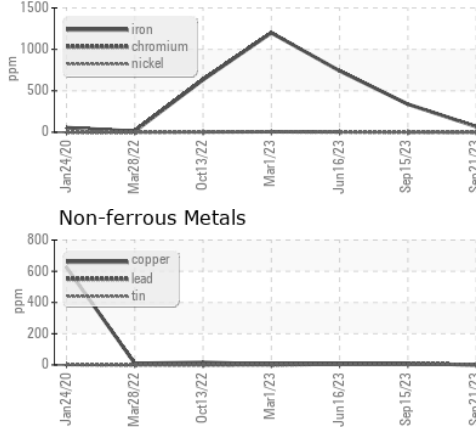
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	206	203	234

SAMPLE IMAGES	method	limit/base	current	history1	history2
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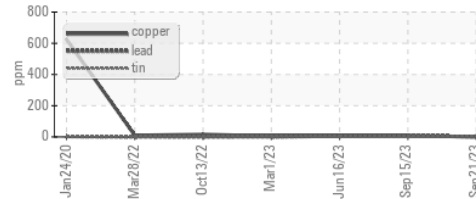


GRAPHS

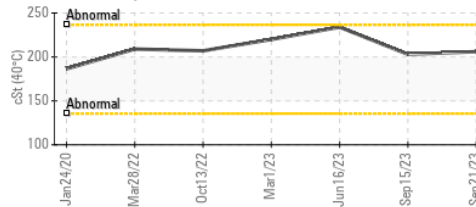
Ferrous Alloys



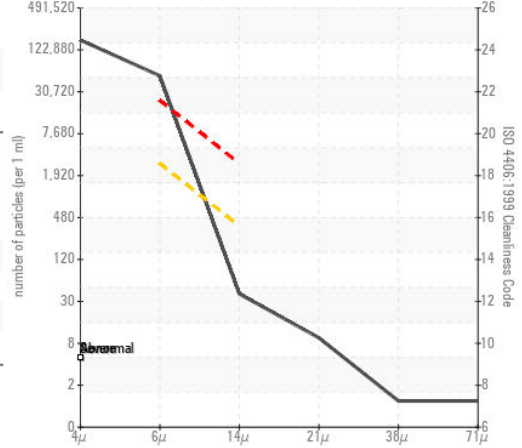
Non-ferrous Metals



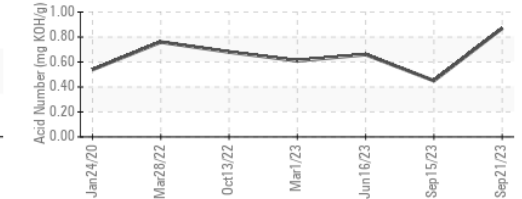
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0012274 **Received** : 29 Sep 2023
Lab Number : 05964564 **Diagnosed** : 02 Oct 2023
Unique Number : 10671115 **Diagnostician** : Don Baldrige
Test Package : FLEET (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)

CONOR
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 HERMOSILLO,
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