

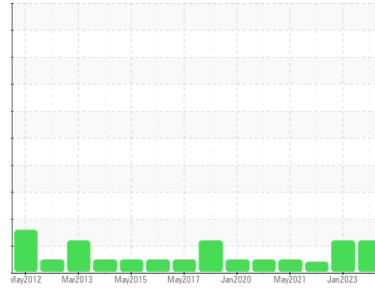


PROBLEM SUMMARY



Area
RMR-Somerset
 Machine Id
LIEBHERR A934 028807-935
 Component
Transmission
 Fluid
SHELL RIMULA SUPER SAE 15W40 (--- GAL)

Sample Rating Trend



VISUAL METAL



COMPONENT CONDITION SUMMARY

No relevant graphs to display


RECOMMENDATION

No corrective action is recommended at this time. The fluid change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
White Metal	scalar	*Visual	NONE	▲ MODER	▲ MODER	NONE

Customer Id: RIVSOM
Sample No.: DJJ0017731
Lab Number: 05969385
Test Package: MOBCE



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Sean Felton +1 919-379-4092
sfelton@wearcheckusa.com

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

18 Jan 2023 Diag: Jonathan Hester

VISUAL METAL



No corrective action is recommended at this time. Resample at the next service interval to monitor. Moderate concentration of visible metal present. All component wear rates are normal. There is no indication of any contamination in the fluid. The condition of the fluid is acceptable for the time in service.

view report



02 Nov 2021 Diag: Jonathan Hester

VIS DEBRIS



No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Moderate concentration of visible dirt/debris present in the fluid. The condition of the fluid is acceptable for the time in service.

view report



04 May 2021 Diag: Angela Borella

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the fluid. The condition of the fluid is acceptable for the time in service.

view report



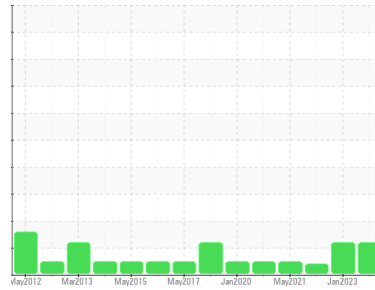


OIL ANALYSIS REPORT



Area
RMR-Somerset
 Machine Id
LIEBHERR A934 028807-935
 Component
Transmission
 Fluid
SHELL RIMULA SUPER SAE 15W40 (--- GAL)

Sample Rating Trend



VISUAL METAL



DIAGNOSIS

Recommendation

No corrective action is recommended at this time. The fluid change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

Moderate concentration of visible metal present. All component wear rates are normal.

Contamination

There is no indication of any contamination in the fluid.

Fluid Condition

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

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		DJJ0017731	DJJ0018087	DJJ0011937
Sample Date	Client Info		28 Aug 2023	18 Jan 2023	02 Nov 2021
Machine Age	hrs	Client Info	19131	18580	16982
Oil Age	hrs	Client Info	0	500	0
Oil Changed	Client Info		Changed	Not Changd	Not Changd
Sample Status			ABNORMAL	ABNORMAL	ABNORMAL

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >300	19	13	11
Chromium	ppm	ASTM D5185m >4	<1	<1	<1
Nickel	ppm	ASTM D5185m >3	<1	0	0
Titanium	ppm	ASTM D5185m >8	<1	<1	<1
Silver	ppm	ASTM D5185m	<1	0	0
Aluminum	ppm	ASTM D5185m >10	3	3	3
Lead	ppm	ASTM D5185m >175	30	17	14
Copper	ppm	ASTM D5185m >500	22	15	19
Tin	ppm	ASTM D5185m >10	<1	<1	<1
Antimony	ppm	ASTM D5185m >10	---	---	0
Vanadium	ppm	ASTM D5185m	0	0	0
Cadmium	ppm	ASTM D5185m	<1	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	95	97	68
Barium	ppm	ASTM D5185m	0	4	0
Molybdenum	ppm	ASTM D5185m	78	75	46
Manganese	ppm	ASTM D5185m	1	1	<1
Magnesium	ppm	ASTM D5185m	65	60	114
Calcium	ppm	ASTM D5185m 2840	2039	2084	2176
Phosphorus	ppm	ASTM D5185m 1150	1040	1002	1000
Zinc	ppm	ASTM D5185m 1270	1183	1113	1094
Sulfur	ppm	ASTM D5185m 2829	4572	4104	3353

CONTAMINANTS

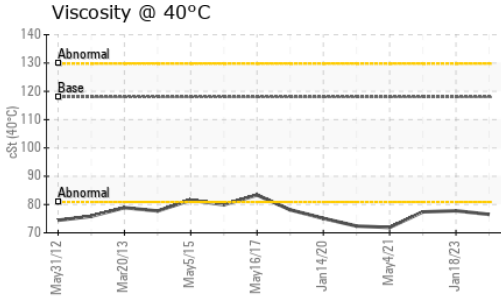
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	10	8	5
Sodium	ppm	ASTM D5185m	2	0	0
Potassium	ppm	ASTM D5185m >20	1	2	<1

VISUAL

	method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	▲ MODER	▲ MODER	NONE
Yellow Metal	scalar	*Visual NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual NONE	NONE	NONE	NONE
Silt	scalar	*Visual NONE	NONE	NONE	NONE
Debris	scalar	*Visual NONE	NONE	NONE	▲ MODER
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
Free Water	scalar	*Visual	NEG	NEG	NEG



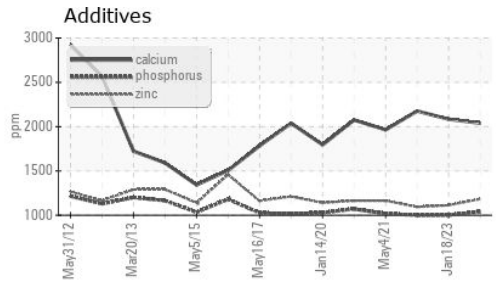
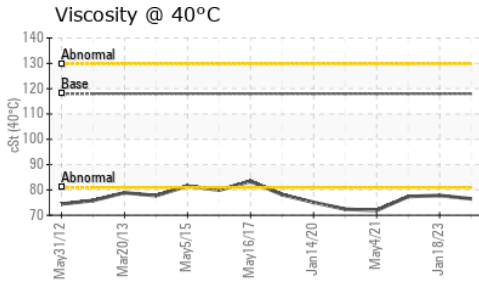
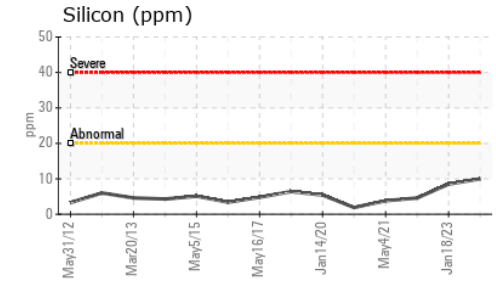
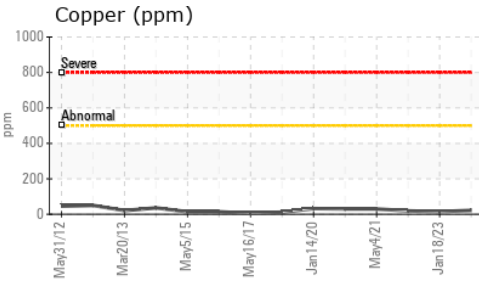
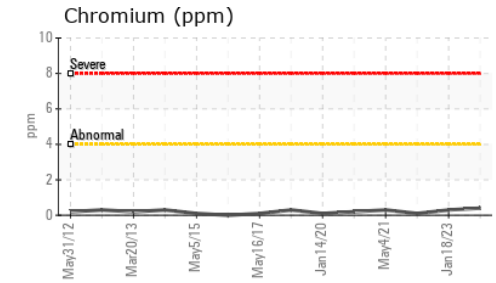
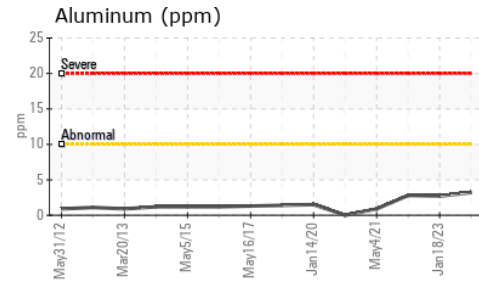
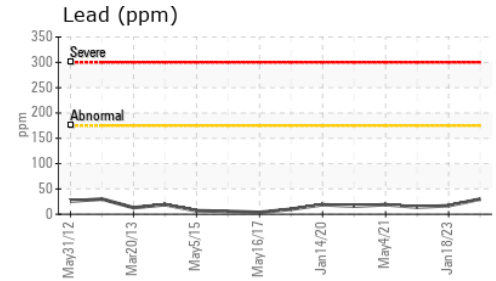
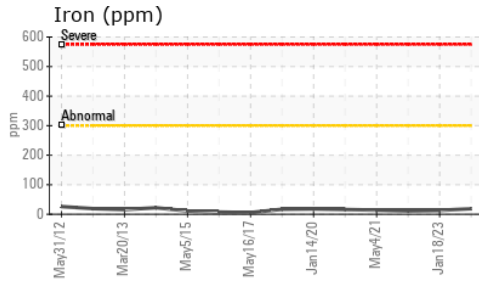
OIL ANALYSIS REPORT



FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	118	76.5	77.8	77.4

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				no image	no image
Bottom				no image	no image

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : DJJ0017731 **Received** : 04 Oct 2023
Lab Number : 05969385 **Diagnosed** : 06 Oct 2023
Unique Number : 10675936 **Diagnostician** : Sean Felton
Test Package : MOBCE

RIVER METALS RECYCLING - SOMERSET
 905 CRANE ROAD
 SOMERSET, KY
 US 42501
 Contact: RYAN BOWDEN

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)

T:
 F: (606)679-7523