

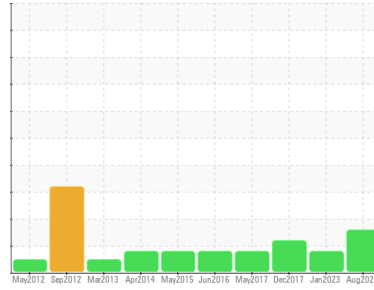


PROBLEM SUMMARY



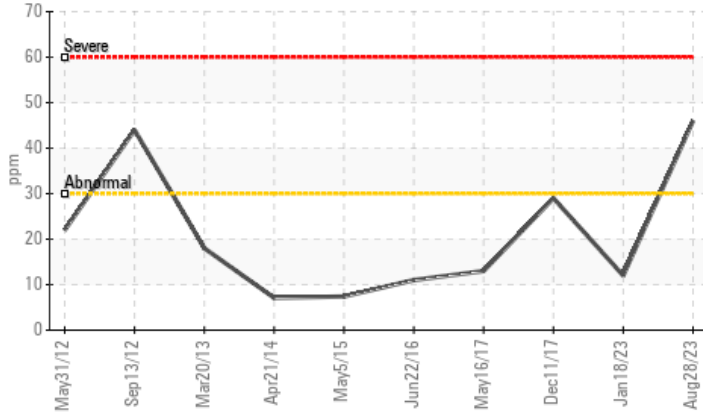
Area
RMR-Somerset
 Machine Id
LIEBHERR A934B 028807-935
 Component
Splitter Box
 Fluid
GEAR OIL SAE 80W90 (--- GAL)

Sample Rating Trend



COMPONENT CONDITION SUMMARY

▲ Silicon (ppm)



RECOMMENDATION

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

PROBLEMATIC TEST RESULTS

Sample Status	ABNORMAL	ABNORMAL	ABNORMAL
Silicon	ppm	ASTM D5185m	>30
	▲ 46	12	29

Customer Id: RIVSOM
 Sample No.: DJJ0017780
 Lab Number: 05969268
 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

WEAR



No corrective action is recommended at this time. Resample at the next service interval to monitor. The copper level is abnormal. All other component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

view report



11 Dec 2017 Diag: Don Baldrige

WEAR



No corrective action is recommended at this time. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. Gear wear is indicated. There is no indication of any contamination in the oil. The oil viscosity is higher than normal. Confirm oil type.

view report



16 May 2017 Diag: Don Baldrige

WEAR



No corrective action is recommended at this time. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. Gear wear is indicated. There is no indication of any contamination in the component. The condition of the oil is acceptable for the time in service.

view report



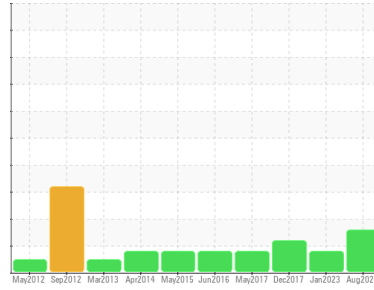


OIL ANALYSIS REPORT



Area
RMR-Somerset
 Machine Id
LIEBHERR A934B 028807-935
 Component
Splitter Box
 Fluid
GEAR OIL SAE 80W90 (--- GAL)

Sample Rating Trend



DIAGNOSIS

Recommendation

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

Wear

All component wear rates are normal.

Contamination

Elemental level of silicon (Si) above normal indicating ingress of seal material.

Fluid Condition

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

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		DJJ0017780	DJJ0018088	DJJ026194
Sample Date	Client Info		28 Aug 2023	18 Jan 2023	11 Dec 2017
Machine Age	hrs	Client Info	19131	18580	13526
Oil Age	hrs	Client Info	0	0	250
Oil Changed	Client Info		Changed	N/A	Changed
Sample Status			ABNORMAL	ABNORMAL	ABNORMAL

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >310	182	265	▲ 146
Chromium	ppm	ASTM D5185m >5	3	2	2
Nickel	ppm	ASTM D5185m >4	<1	0	1
Titanium	ppm	ASTM D5185m	<1	<1	<1
Silver	ppm	ASTM D5185m	0	<1	0
Aluminum	ppm	ASTM D5185m >7	4	4	4
Lead	ppm	ASTM D5185m >10	0	0	0
Copper	ppm	ASTM D5185m >25	22	▲ 69	1
Tin	ppm	ASTM D5185m >5	0	0	0
Antimony	ppm	ASTM D5185m >45	---	---	0
Vanadium	ppm	ASTM D5185m	0	<1	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 400	3	4	6
Barium	ppm	ASTM D5185m 200	0	4	<1
Molybdenum	ppm	ASTM D5185m 12	<1	<1	<1
Manganese	ppm	ASTM D5185m	2	2	1
Magnesium	ppm	ASTM D5185m 12	<1	2	23
Calcium	ppm	ASTM D5185m 150	37	22	79
Phosphorus	ppm	ASTM D5185m 1650	140	167	378
Zinc	ppm	ASTM D5185m 125	0	11	40
Sulfur	ppm	ASTM D5185m 22500	13732	15217	9144

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >30	▲ 46	12	29
Sodium	ppm	ASTM D5185m >170	<1	0	7
Potassium	ppm	ASTM D5185m >20	<1	1	2

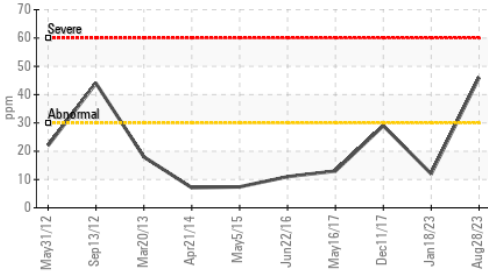
VISUAL

	method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	NONE	NONE	LIGHT
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	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
Free Water	scalar	*Visual	NEG	NEG	NEG

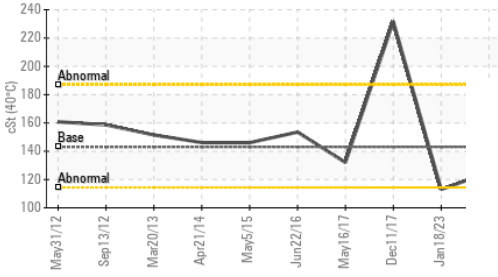


OIL ANALYSIS REPORT

▲ Silicon (ppm)



Viscosity @ 40°C



FLUID PROPERTIES

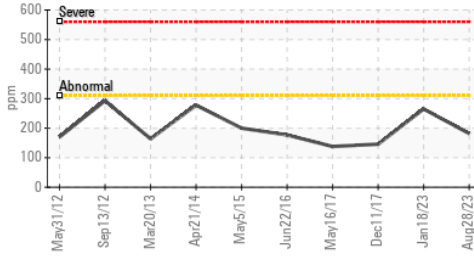
method	limit/base	current	history1	history2
Visc @ 40°C	cSt ASTM D445	143	125	113 ▲ 231.7

SAMPLE IMAGES

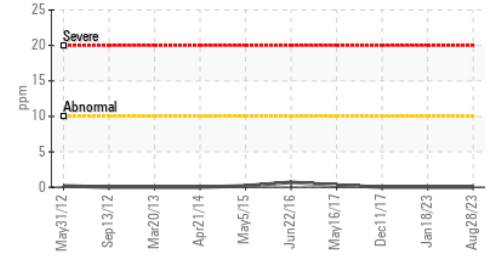
method	limit/base	current	history1	history2
Color			no image	no image
Bottom			no image	no image

GRAPHS

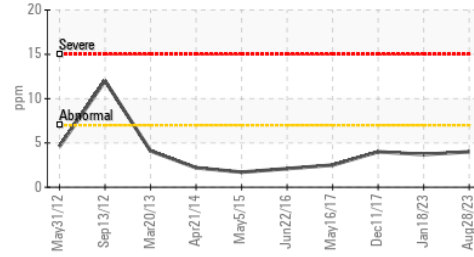
Iron (ppm)



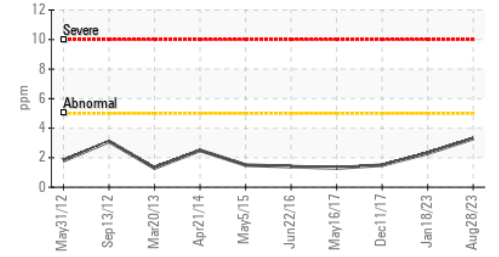
Lead (ppm)



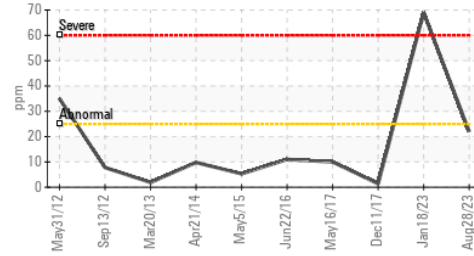
Aluminum (ppm)



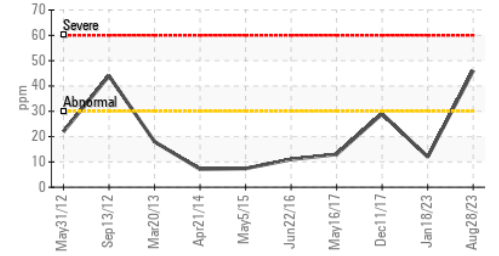
Chromium (ppm)



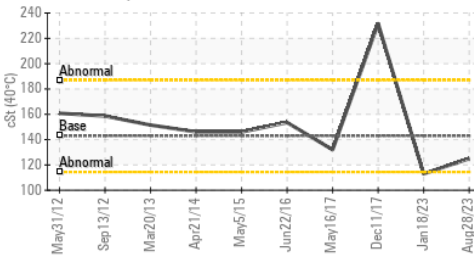
Copper (ppm)



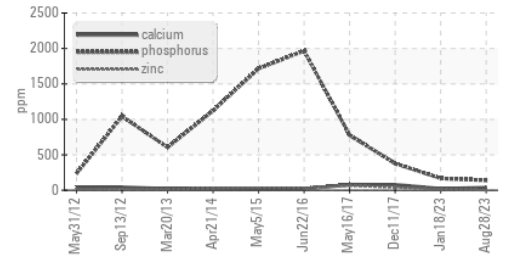
▲ Silicon (ppm)



Viscosity @ 40°C



Additives



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : DJJ0017780 **Received** : 04 Oct 2023
Lab Number : 05969268 **Diagnosed** : 06 Oct 2023
Unique Number : 10675819 **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