



# OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>ATTENTION</b>



Area  
**RMR-Somerset**  
Machine Id  
**147178 LIEBHERR LH50 147178**  
Component  
**Transmission (Manual)**  
Fluid  
**DIESEL ENGINE OIL SAE 15W40 (--- GAL)**

## RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>DJJ0017751</b>	DJJ0017730	---
Sample Date		Client Info		<b>05 Apr 2024</b>	16 Nov 2023	---
Machine Age	hrs	Client Info		<b>1066</b>	0	---
Oil Age	hrs	Client Info		<b>0</b>	0	---
Filter Age	hrs	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>Not Chngd</b>	N/A	---
Filter Changed		Client Info		<b>Not Chngd</b>	N/A	---
Sample Status				<b>ATTENTION</b>	NORMAL	---

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>200	<b>11</b>	9	---
Chromium	ppm	ASTM D5185m	>5	<b>&lt;1</b>	0	---
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	0	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Silver	ppm	ASTM D5185m	>7	<b>&lt;1</b>	0	---
Aluminum	ppm	ASTM D5185m	>25	<b>2</b>	3	---
Lead	ppm	ASTM D5185m	>45	<b>10</b>	<1	---
Copper	ppm	ASTM D5185m	>225	<b>17</b>	26	---
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	1	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

## CONTAMINATION

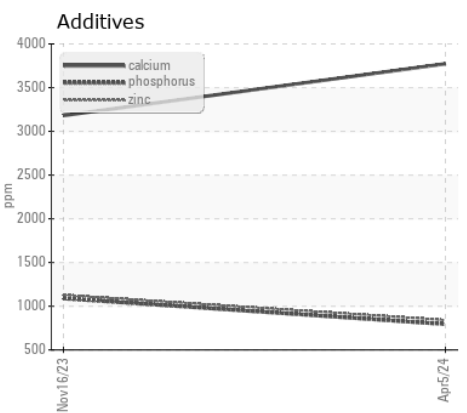
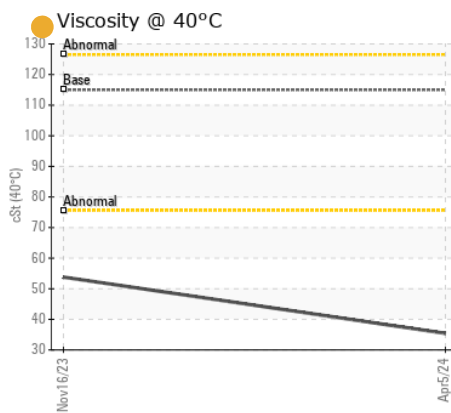
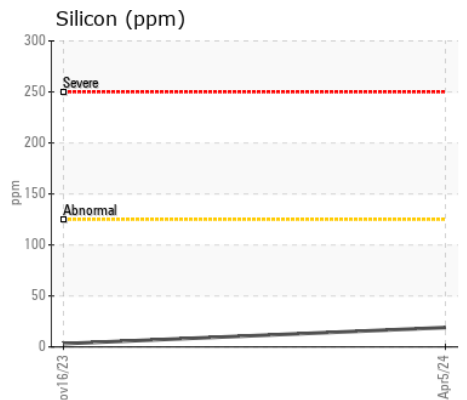
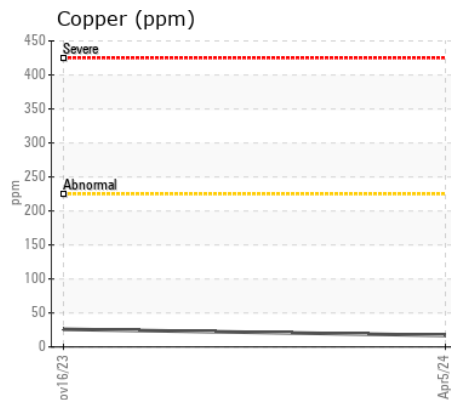
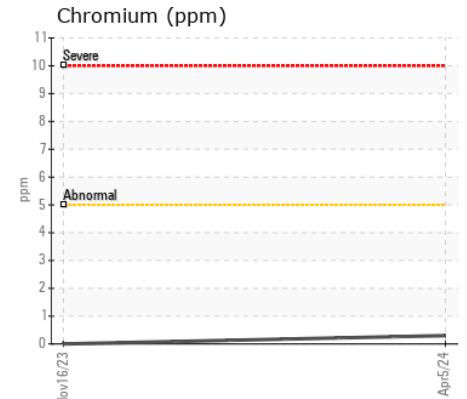
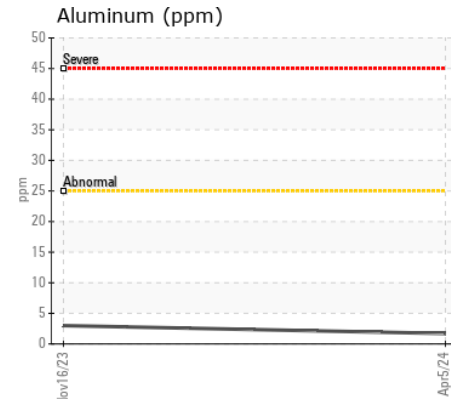
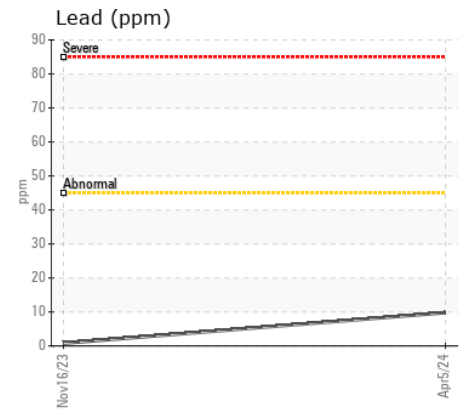
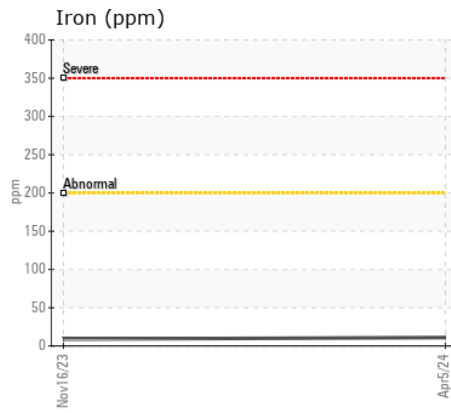
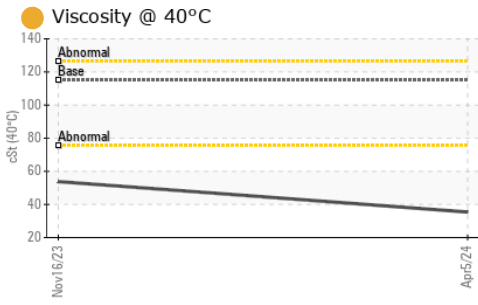
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185m	>125	<b>19</b>	3	---
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	3	---
Water		WC Method	>0.1	<b>NEG</b>	NEG	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	NEG	---

## FLUID CONDITION

The fluid viscosity is lower than normal. Confirm oil type.

Sodium	ppm	ASTM D5185m	>158	<b>2</b>	39	---
Boron	ppm	ASTM D5185m	250	<b>4</b>	3	---
Barium	ppm	ASTM D5185m	10	<b>0</b>	1	---
Molybdenum	ppm	ASTM D5185m	100	<b>4</b>	0	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	24	---
Magnesium	ppm	ASTM D5185m	450	<b>9</b>	9	---
Calcium	ppm	ASTM D5185m	3000	<b>3773</b>	3181	---
Phosphorus	ppm	ASTM D5185m	1150	<b>794</b>	1088	---
Zinc	ppm	ASTM D5185m	1350	<b>841</b>	1128	---
Sulfur	ppm	ASTM D5185m	4250	<b>8957</b>	8460	---
Visc @ 40°C	cSt	ASTM D445	115	<b>35.42</b>	53.8	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
 Sample No. : DJJ0017751  
 Lab Number : 06154991  
 Unique Number : 10990414  
 Test Package : MOBCE

Received : 19 Apr 2024  
 Tested : 25 Apr 2024  
 Diagnosed : 25 Apr 2024 - Jonathan Hester

**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)

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