

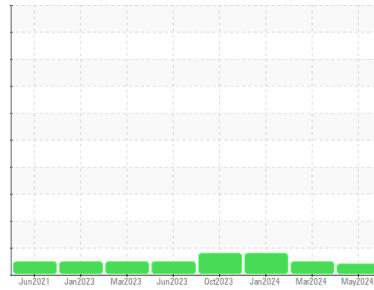


# OIL ANALYSIS REPORT



Machine Id  
**120556-1216 LIEBHERR LH50M 120556-1216**  
 Component  
**Transmission (Manual)**  
 Fluid  
**GEAR OIL SAE 80W90 (--- GAL)**

## Sample Rating Trend



## VISCOSITY



### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the fluid.

#### Fluid Condition

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

### SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>DJJ0022497</b>	DJJ0022491	DJJ0022514
Sample Date	Client Info		<b>24 May 2024</b>	08 Mar 2024	03 Jan 2024
Machine Age	hrs	Client Info	<b>9944</b>	9578	9096
Oil Age	hrs	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>N/A</b>	N/A	Not Changd
Sample Status			<b>ATTENTION</b>	NORMAL	ABNORMAL

### CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.1	<b>NEG</b>	NEG	NEG

### WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>200	<b>13</b>	12	25
Chromium	ppm	ASTM D5185m	>5	<b>1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>0</b>	0	<1
Silver	ppm	ASTM D5185m	>7	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>2</b>	0	13
Lead	ppm	ASTM D5185m	>45	<b>&lt;1</b>	0	0
Copper	ppm	ASTM D5185m	>225	<b>2</b>	3	55
Tin	ppm	ASTM D5185m	>10	<b>0</b>	0	1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	0

### ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	400	<b>0</b>	<1	548
Barium	ppm	ASTM D5185m	200	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	12	<b>0</b>	0	773
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	18
Magnesium	ppm	ASTM D5185m	12	<b>2</b>	0	70
Calcium	ppm	ASTM D5185m	150	<b>26</b>	40	826
Phosphorus	ppm	ASTM D5185m	1650	<b>366</b>	315	378
Zinc	ppm	ASTM D5185m	125	<b>436</b>	391	160
Sulfur	ppm	ASTM D5185m	22500	<b>1612</b>	829	7211

### CONTAMINANTS

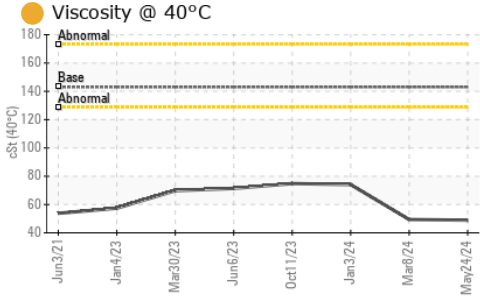
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>125	<b>1</b>	<1	15
Sodium	ppm	ASTM D5185m	>170	<b>0</b>	<1	4
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	0	286

### VISUAL

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



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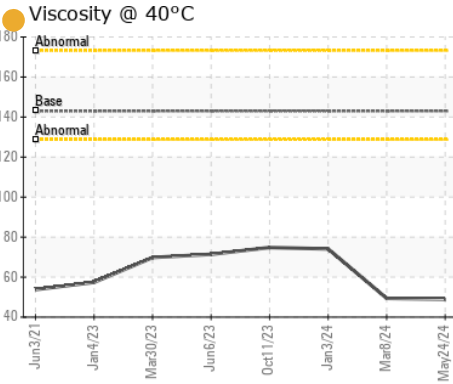
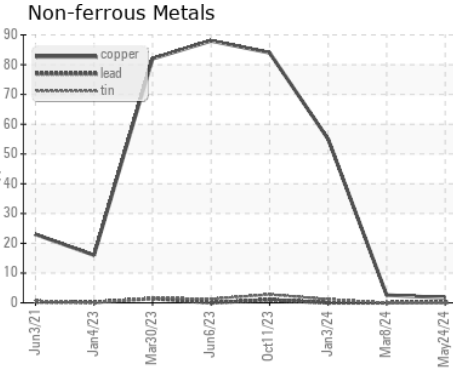
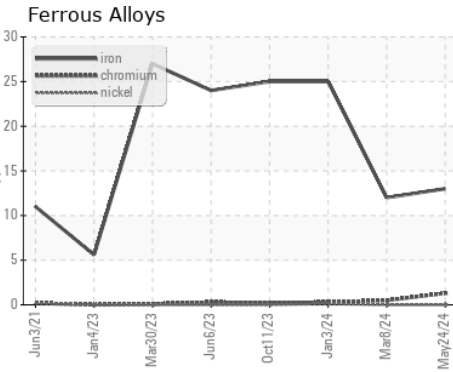
## FLUID PROPERTIES

method	limit/base	current	history1	history2
Visc @ 40°C	cSt ASTM D445	143	49.4	74.1

## 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. : DJJ0022497

Lab Number : 06216213

Unique Number : 11089077

Test Package : CONST

Received : 20 Jun 2024

Tested : 21 Jun 2024

Diagnosed : 23 Jun 2024 - Don Baldrige

RIVER METALS RECYCLING - DECATUR FACILITY

4301 IVERSON BLVD

TRINITY, AL

US 35673

Contact: LARRY BARBER

larry.barber@rmrecycling.com

T:

F:

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)