



# OIL ANALYSIS REPORT

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



Area  
**RMR-Trinity**  
Machine Id  
**1216-96585 LIEBHERR LH50M 1216-96585**  
Component  
**Swing Drive**  
Fluid  
**GEAR OIL SAE 80W90 (--- 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>DJJ0019878</b>	DJJ0010675	DJJ0015336
Sample Date		Client Info		<b>20 Jul 2023</b>	03 Mar 2023	21 Oct 2022
Machine Age	hrs	Client Info		<b>10527</b>	10023	9584
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Changd</b>	N/A	Changed
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>ABNORMAL</b>	NORMAL	SEVERE

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>1200	<b>453</b>	410	▲ 2082
Chromium	ppm	ASTM D5185m	>15	<b>4</b>	4	▲ 19
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185m	>5	<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	<1	2
Aluminum	ppm	ASTM D5185m	>5	<b>&lt;1</b>	1	3
Lead	ppm	ASTM D5185m	>8	<b>&lt;1</b>	0	<1
Copper	ppm	ASTM D5185m	>325	<b>211</b>	169	▲ 1057
Tin	ppm	ASTM D5185m	>15	<b>4</b>	3	12
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	▲ MODER
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

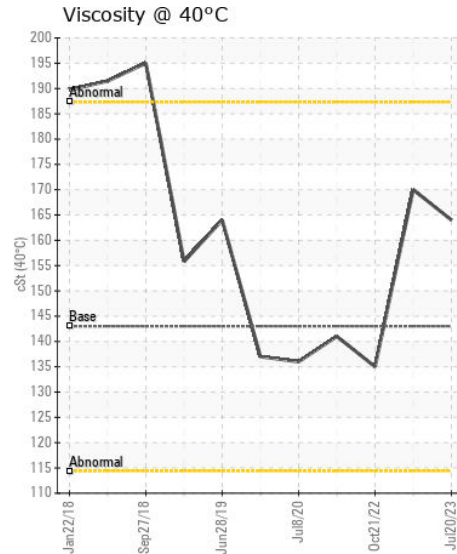
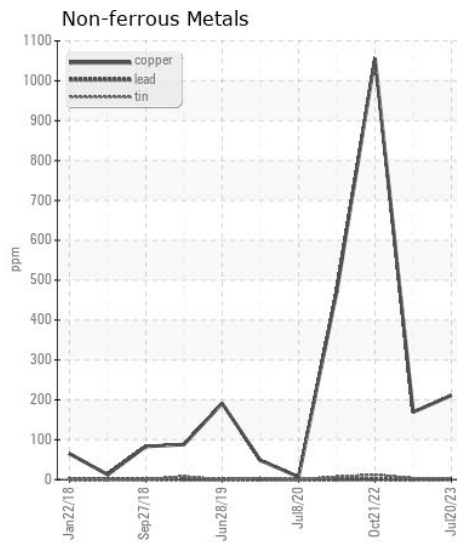
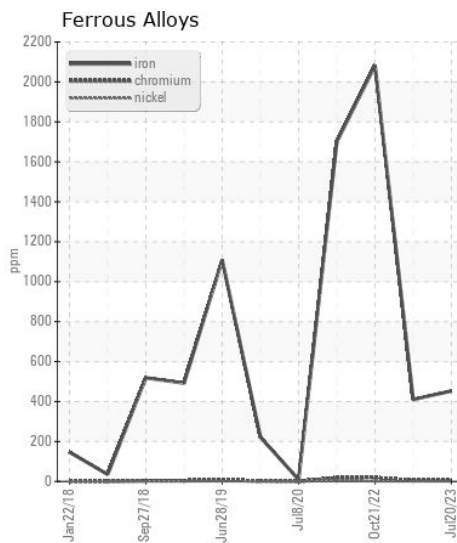
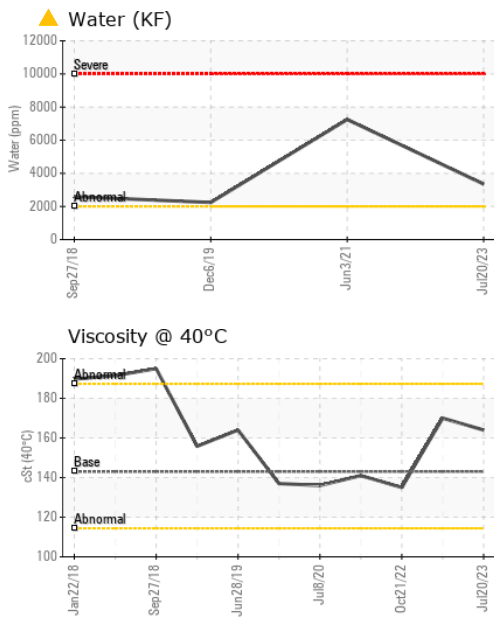
There is a light concentration of water present in the oil.

Silicon	ppm	ASTM D5185m	>10	<b>&lt;1</b>	1	4
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	<1	3
Water	%	ASTM D6304	>0.2	<b>▲ 0.334</b>	---	---
ppm Water	ppm	ASTM D6304	>2000	<b>▲ 3349.6</b>	---	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
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	>0.2	<b>▲ 0.2%</b>	NEG	NEG

## FLUID CONDITION

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

Sodium	ppm	ASTM D5185m	>170	<b>&lt;1</b>	<1	0
Boron	ppm	ASTM D5185m	400	<b>45</b>	25	113
Barium	ppm	ASTM D5185m	200	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	12	<b>&lt;1</b>	<1	2
Manganese	ppm	ASTM D5185m		<b>3</b>	3	15
Magnesium	ppm	ASTM D5185m	12	<b>4</b>	4	<1
Calcium	ppm	ASTM D5185m	150	<b>20</b>	17	16
Phosphorus	ppm	ASTM D5185m	1650	<b>616</b>	570	1317
Zinc	ppm	ASTM D5185m	125	<b>21</b>	27	67
Sulfur	ppm	ASTM D5185m	22500	<b>22360</b>	20761	23806
Visc @ 40°C	cSt	ASTM D445	143	<b>164</b>	170	135



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : DJJ0019878  
**Lab Number** : 05907933  
**Unique Number** : 10574585  
**Test Package** : CONST ( Additional Tests: KF )

**RIVER METALS RECYCLING - DECATUR FACILITY**  
 4301 IVERSON BLVD  
 TRINITY, AL  
 US 35673  
 Contact: LARRY BARBER  
 larry.barber@rmrecycling.com

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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F: