



# OIL ANALYSIS REPORT

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



Area  
**TMR-Riviera Beach**  
 Machine Id  
**493144 LIEBHERR LH50 119559**  
 Component  
**Swing Drive**  
 Fluid  
**AMALIE 85W140 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>DJJ0023228</b>	DJJ0006591	DJJ0006596
Sample Date		Client Info		<b>08 Jul 2024</b>	04 Oct 2022	04 Oct 2022
Machine Age	hrs	Client Info		<b>9235</b>	5718	5718
Oil Age	hrs	Client Info		<b>500</b>	0	0
Filter Age	hrs	Client Info		<b>500</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	N/A	N/A
Filter Changed		Client Info		<b>Changed</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>1450	<b>499</b>	19	70
Chromium	ppm	ASTM D5185m	>11	<b>6</b>	0	<1
Nickel	ppm	ASTM D5185m	>3	<b>1</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>4	<b>2</b>	0	0
Lead	ppm	ASTM D5185m	>4	<b>&lt;1</b>	0	13
Copper	ppm	ASTM D5185m	>542	<b>265</b>	<1	186
Tin	ppm	ASTM D5185m	>38	<b>2</b>	0	7
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

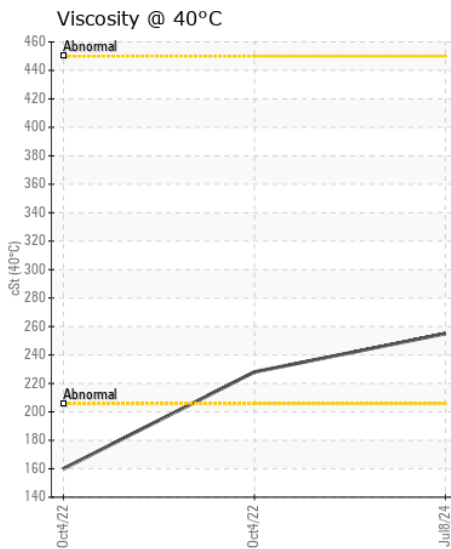
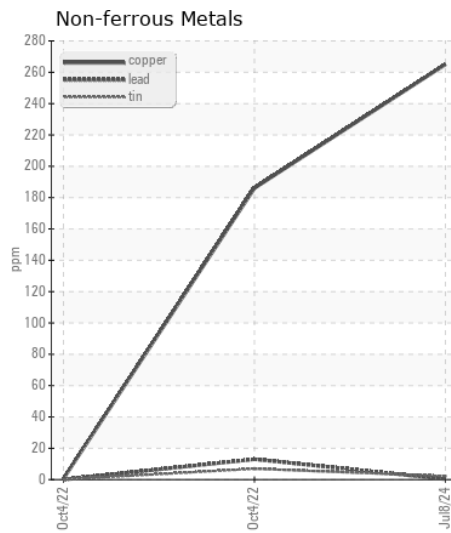
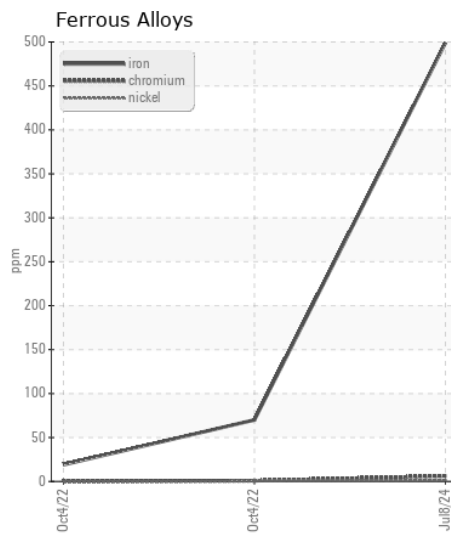
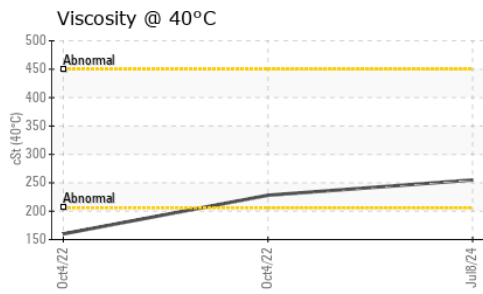
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>15	<b>3</b>	1	1
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	52	0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
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>NEG</b>	NEG	NEG

## FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		<b>1</b>	<1	3
Boron	ppm	ASTM D5185m		<b>8</b>	40	35
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>3</b>	<1	10
Manganese	ppm	ASTM D5185m		<b>4</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>11</b>	<1	49
Calcium	ppm	ASTM D5185m		<b>14</b>	50	169
Phosphorus	ppm	ASTM D5185m		<b>712</b>	321	2366
Zinc	ppm	ASTM D5185m		<b>32</b>	30	61
Sulfur	ppm	ASTM D5185m		<b>19159</b>	15236	25056
Visc @ 40°C	cSt	ASTM D445		<b>255</b>	228	160



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : DJJ0023228  
**Lab Number** : 06236519  
**Unique Number** : 11125353  
**Test Package** : CONST

**Received** : 15 Jul 2024  
**Tested** : 16 Jul 2024  
**Diagnosed** : 17 Jul 2024 - Sean Felton

**TRADEMARK METALS RECYCLING - RIVIERA BEACH**  
 4661 DYER BLVD  
 WEST PALM BEACH, FL  
 US 33407  
 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: (561)842-9526  
 F: (561)842-9526