## LIEBHERR

**CONSTRUCTION EQUIPMENT** 



Sample No: LHMC99404

Oil Type: GEAR OIL SAE 80W90

SAMPLE INFORMATION						
Sample Number	LHMC99404	DJJ0004054	LHMC84889			
Sample Date	16 Jun 2021	18 Nov 2020	03 Apr 2020			
Machine Hours	4478	3111	1846			
Oil Hours	0	0	0			
Oil Changed	Not Changd	Changed	Changed			
Sample Status	NORMAL	NORMAL	NORMAL			
<b>A</b>						

Sample Status		NORMAL	NORMAL	NORMAL	
OILC	ONDITION				
Visc @ 40°C	cSt	<b>104</b>	O 185	O 185	

CONT	AMINATIO	ON			
Silicon	ppm	<b>3</b>	O 2	O 4	
Sodium	ppm	<b>2</b>	<b>3</b>	<b>4</b>	
Potassium	ppm	<b>()</b> <1	O 0	O 0	

WEA	R METALS				
Iron	ppm	<b>6</b> 1	O 11	<b>8</b>	
Copper	ppm	<b>12</b>	O 18	O 16	
Lead	ppm	<b>0</b>	0	O <1	
Tin	ppm	<b>○</b> <1	0	O 0	
Aluminum	ppm	<b>0</b>	0	O <1	
Chromium	ppm	<b>0</b> <1	O <1	O <1	
Molybdenum	ppm	<b>1</b>	0	O 0	
Nickel	ppm	<1	1	<1	
Titanium	ppm	<1	0	0	
Silver	ppm	<1	0	0	
Manganese	ppm	<b>1</b>	O <1	O <1	
Vanadium	ppm	0	0	0	

ADDITIVES							
Calcium	ppm	<b>15</b>	O 12	O 15			
Magnesium	ppm	<b>4</b>	0	O <1			
Zinc	ppm	<b>4</b>	<b>1</b> 3	<b>1</b> 3			
Phosphorus	ppm	<b>472</b>	O 1040	<b>1074</b>			
Barium	ppm	<b>28</b>	328	○ 342			
Boron	ppm	<b>12</b>	O 2	O 2			



RIVER METALS RECYCLING - LOUISVILLE PO BOX 6521 LOUISVILLE, KY US 40206

Contact: RYAN BOWDEN

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F: (502)587-8699

## Diagnosis

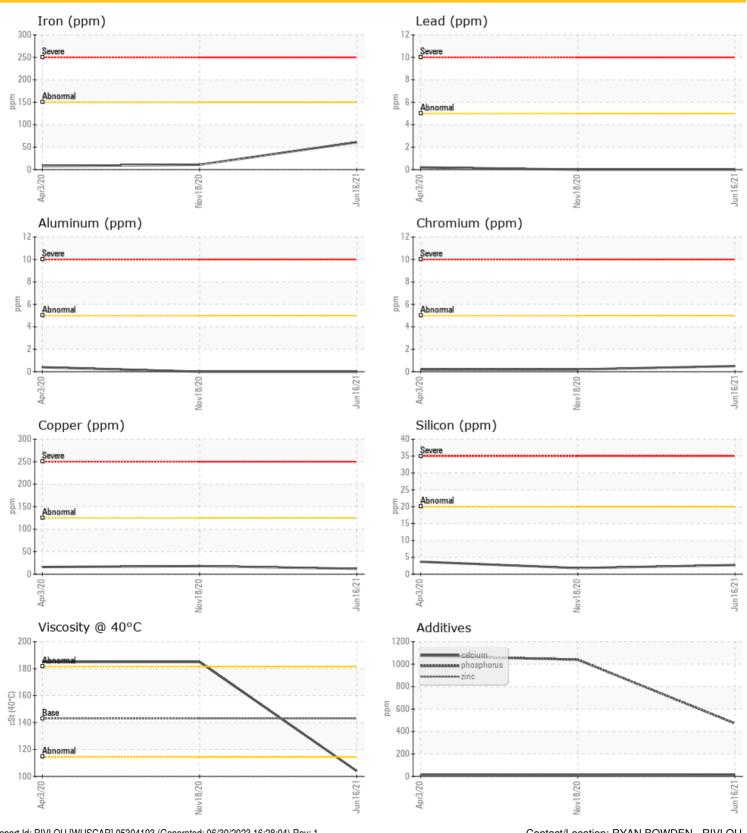
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot:RIVLOUUnique No:9583153Signed:Don BaldridgeReport Date:18 Jul 2021





## **GRAPHS**



Report Id: RIVLOU [WUSCAR] 05304193 (Generated: 06/30/2023 16:28:04) Rev: 1

Contact/Location: RYAN BOWDEN - RIVLOU