LIEBHERR





Sample No: LHMC79472

Oil Type: LIEBHERR GEAR BASIC 90 LS

5				
SAMPLEINFOR	MATION			
Sample Number	LHMC79472	DJJMC124951	DJJ0004056	LHMC50607
Sample Date	16 Jun 2021	03 Mar 2021	18 Nov 2020	03 Apr 2020
Machine Hours	4478	3793	3111	1846
Oil Hours	0	0	0	0
Oil Changed	Changed	Not Changd	Changed	Changed
Sample Status	SEVERE	SEVERE	ABNORMAL	NORMAL
OIL CONDITION				

VISC @ 40°C	CSI	253	0211	280	0 197
**					
CONT	AMINATIO	ON			
Water	%	1.15	1.56	0.155	
Silicon	ppm	3	O 2	O 2	O 1
Sodium	ppm	2	O 2	○ 3	4
Potassium	ppm	0	O 0	10	O 0

WEA	R METAL	5			
Iron	ppm	1186	O 648	O 885	O 265
Copper	ppm	136	O 50	O 92	5 5
Lead	ppm	0	1	0	O <1
Tin	ppm	4	O 0	O	O 0
Aluminum	ppm	0	O <1	<1	O <1
Chromium	ppm	13	6	0 8	O 2
Molybdenum	ppm	() <1	0	0	O 0
Nickel	ppm	0 1	O 1	O 1	O <1
Titanium	ppm	<1	0	0	0
Silver	ppm	<1	<1	0	0
Manganese	ppm	8	5	6	O 2
Vanadium	ppm	<1	0	0	<1

ADDITIVES
ADDITIVES
Calcium ppm ● 5 ● 6 ● 9
Magnesium
Zinc ppm ○ 0 ○ 6 ○ 17 ○ 10
Phosphorus ppm 2231 ○ 2088 ○ 1870 ○ 2132
Barium ppm
Boron



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

T:

F: (502)587-8699

Contact: RYAN BOWDEN

Diagnosis

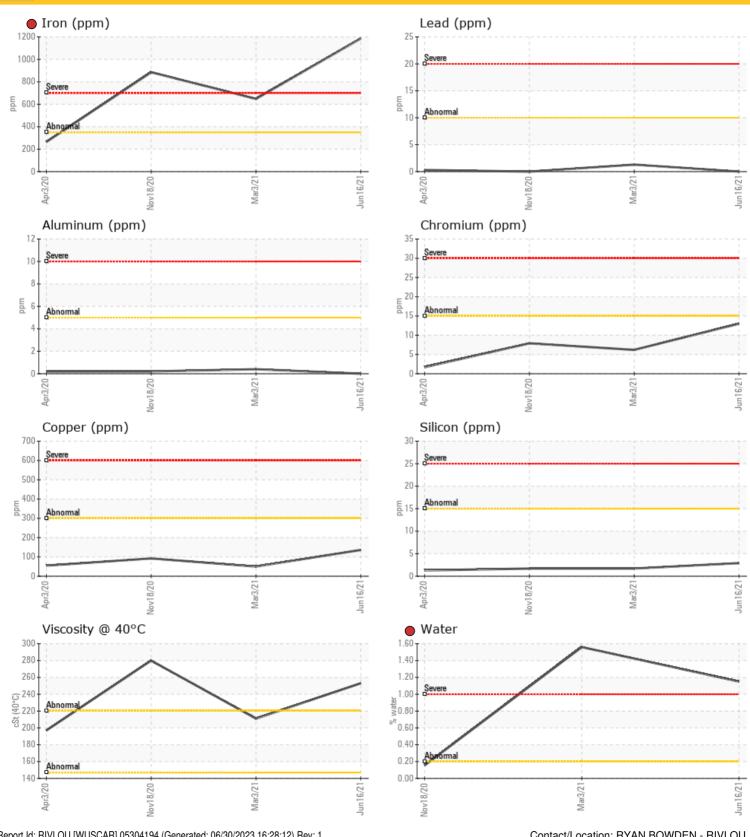
We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Gear wear is indicated. There is a high concentration of water present in the oil. The oil is no longer serviceable due to the presence of contaminants.

Depot:RIVLOUUnique No:9583154Signed:Don BaldridgeReport Date:19 Jul 2021





GRAPHS



Report Id: RIVLOU [WUSCAR] 05304194 (Generated: 06/30/2023 16:28:12) Rev: 1

Contact/Location: RYAN BOWDEN - RIVLOU