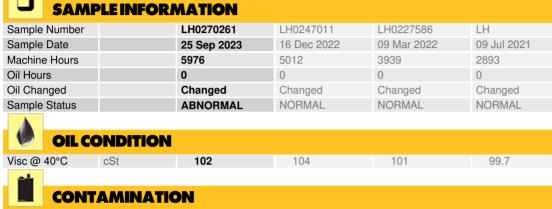
# LIEBHERR

## **CONSTRUCTION EQUIPMENT**

## LIEBHERR LH40C 117763-1527 - Swing Drive

Sample No: LH0270261

Oil Type: GEAR OIL SAE 80W90



CONTAMINATION							
Water	%	<b>0.327</b>					
Silicon	ppm	<b>6</b>	O 4	<b>1</b>	O 2		
Sodium	ppm	<b>1</b>	O <1	O <1	O 0		
Potassium	ppm	<b>0</b>	O <1	O <1	O <1		

WEA	R METAL	S			
PQ		<b>0</b>			
Iron	ppm	<b>1297</b>	O 277	<b>260</b>	○ 288
Copper	ppm	<u> </u>	○ 23	○ 32	○ 30
Lead	ppm	<b>7</b>	O <1	<1	<b></b> <1
Tin	ppm	<b>1</b>	O <1	<1	O <1
Aluminum	ppm	<b>O</b> <1	O 0	O 0	O 0
Chromium	ppm	<b>7</b>	<b>3</b>	<b>3</b>	<b>3</b>
Molybdenum	ppm	<b>0</b>	0	O <1	O <1
Nickel	ppm	<b></b> <1	O <1	<1	O <1
Titanium	ppm	0	0	0	0
Silver	ppm	<1	0	0	0
Manganese	ppm	<b>10</b>	O 2	O 2	O 2
Vanadium	ppm	0	0	0	0

ADDITIVES							
Calcium	ppm	<b>11</b>	<b>18</b>	<b>8</b>	O 12		
Magnesium	ppm	<b>2</b>	O 2	O 2	O 2		
Zinc	ppm	<b>19</b>	O 13	<b>11</b>	<b>10</b>		
Phosphorus	ppm	<b>1240</b>	O 1332	<b>1304</b>	1345		
Barium	ppm	<b>1</b>	O 0	<b>0</b>	<b></b> <1		
Boron	ppm	<b>141</b>	○ 313	○ 301	○ 320		





#### **MOFFATT SCRAP IRON & METAL INC.**

9620 GUELPH LINE CAMPBELLVILLE, ON

CA L0P 1B0

Contact: Paul Brochu

maintenance@moffatscrapiron.ca

T: (905)854-2792 F: (905)854-1225

### Diagnosis

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.Copper, iron and lead ppm levels are abnormal. A sharp increase in the copper level is noted. Bearing and/or bushing wear is indicated. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion. There is a moderate concentration of water present in the oil. Viscosity of sample indicates oil is within SAE 75W90 range, advise investigate. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: MOFMOF
Unique No: 5646356
Signed: Kevin Marson
Report Date: 27 Sep 2023

# LIEBHERR

CONSTRUCTION EQUIPMENT





### **GRAPHS**

