

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH40C 117763-1527 - Front Left Wheel Hub

Sample No: LH0270264

Oil Type: GEAR OIL SAE 80W90



#### SAMPLE INFORMATION

Sample Number	LH0270264	---	---	---
Sample Date	25 Sep 2023	---	---	---
Machine Hours	5976	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	SEVERE	---	---	---

**MOFFATT SCRAP IRON & METAL INC.**  
 9620 GUELPH LINE  
 CAMPBELLVILLE, ON  
 CA L0P 1B0  
 Contact: Paul Brochu  
 maintenance@moffatsscrapiron.ca  
 T: (905)854-2792  
 F: (905)854-1225



#### OIL CONDITION

Visc @ 40°C	cSt	93.3	---	---	---
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#### CONTAMINATION

Silicon	ppm	50	---	---	---
Sodium	ppm	4	---	---	---
Potassium	ppm	3	---	---	---



#### WEAR METALS

Iron	ppm	338	---	---	---
Copper	ppm	<1	---	---	---
Lead	ppm	<1	---	---	---
Tin	ppm	0	---	---	---
Aluminum	ppm	13	---	---	---
Chromium	ppm	15	---	---	---
Molybdenum	ppm	1	---	---	---
Nickel	ppm	1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	<1	---	---	---
Manganese	ppm	5	---	---	---
Vanadium	ppm	0	---	---	---



#### ADDITIVES

Calcium	ppm	105	---	---	---
Magnesium	ppm	29	---	---	---
Zinc	ppm	23	---	---	---
Phosphorus	ppm	1286	---	---	---
Barium	ppm	<1	---	---	---
Boron	ppm	276	---	---	---

#### Diagnosis

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We advise that you flush the component thoroughly before re-filling with oil. We recommend an early resample to monitor this condition. Chromium ppm levels are severe. Aluminum ppm levels are noted. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. High amount of ingressed dirt has caused abrasive wear to the component. 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: 5646342  
 Signed: Bill Quesnel  
 Report Date: 26 Sep 2023



### GRAPHS

