

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### 15070 - Left Final Drive

Sample No: LH0286571

Oil Type: {unknown}



#### Sample Information

Sample Number	LH0286571	---	---	---
Sample Date	21 Apr 2024	---	---	---
Machine Hours	15792	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	SEVERE	---	---	---

**LIEBHERR CANADA LTD.**  
 1015 SUTTON DRIVE  
 BURLINGTON, ON  
 CA L7L 5Z8  
 Contact: Steve Lehto  
 steve.lehto@liebherr.com  
 T: (905)319-9222  
 F: (905)319-6617



#### Oil Condition

Visc @ 40°C	cSt	52.0	---	---	---
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#### Contamination

Water	%	NEG	---	---	---
Silicon	ppm	1801	---	---	---
Sodium	ppm	137	---	---	---
Potassium	ppm	149	---	---	---



#### Wear Metals

PQ		84	---	---	---
Iron	ppm	4958	---	---	---
Copper	ppm	102	---	---	---
Lead	ppm	5	---	---	---
Tin	ppm	5	---	---	---
Aluminum	ppm	421	---	---	---
Chromium	ppm	61	---	---	---
Molybdenum	ppm	5	---	---	---
Nickel	ppm	12	---	---	---
Titanium	ppm	17	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	46	---	---	---
Vanadium	ppm	<1	---	---	---



#### Additives

Calcium	ppm	900	---	---	---
Magnesium	ppm	105	---	---	---
Zinc	ppm	375	---	---	---
Phosphorus	ppm	443	---	---	---
Barium	ppm	1	---	---	---
Boron	ppm	31	---	---	---

#### Diagnosis

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample. Please specify the component make and model with your next sample. Chromium and iron ppm levels are severe. Nickel ppm levels are abnormal. Aluminum ppm levels are noted. Titanium ppm levels are marginal. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion. 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. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: LIEMIS  
 Unique No: 5763821  
 Signed: Kevin Marson  
 Report Date: 23 Apr 2024



### Graphs

