

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### 15070 - Right Final Drive

Sample No: LH0286572

Oil Type: {unknown}



#### Sample Information

Sample Number	LH0286572	---	---	---
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	158	---	---	---
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#### Contamination

Water	%	0.386	---	---	---
Silicon	ppm	4291	---	---	---
Sodium	ppm	323	---	---	---
Potassium	ppm	344	---	---	---



#### Wear Metals

PQ		688	---	---	---
Iron	ppm	11264	---	---	---
Copper	ppm	252	---	---	---
Lead	ppm	13	---	---	---
Tin	ppm	15	---	---	---
Aluminum	ppm	985	---	---	---
Chromium	ppm	171	---	---	---
Molybdenum	ppm	14	---	---	---
Nickel	ppm	40	---	---	---
Titanium	ppm	50	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	110	---	---	---
Vanadium	ppm	2	---	---	---



#### Additives

Calcium	ppm	986	---	---	---
Magnesium	ppm	211	---	---	---
Zinc	ppm	157	---	---	---
Phosphorus	ppm	440	---	---	---
Barium	ppm	<1	---	---	---
Boron	ppm	80	---	---	---

#### Diagnosis

We advise that you check for the source of water entry. 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. Chromium and copper and iron and nickel ppm levels are severe. PQ levels are abnormal. Tin ppm levels are abnormal. Aluminum ppm levels are noted. Titanium ppm levels are marginal. Gear wear is indicated. Bearing and/or bushing wear is indicated. The high ferrous density (PQ) index indicates that abnormal wear is occurring. There is a moderate concentration of water present in the oil. 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:** 5763820  
**Signed:** Kevin Marson  
**Report Date:** 24 Apr 2024



### Graphs

