

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH60C T12560-1528 - Left Final Drive

Sample No: LH0225043

Oil Type: GEAR OIL SAE 75W90



**EMSCO**  
1810 INDUSTRIAL DR  
REGINA, SK  
CA S4K 0A6  
Contact: Service Manager  
ctweddle@emsco.ca

T:  
F:



#### SAMPLE INFORMATION

Sample Number	LH0225043	LH0221882	---	---
Sample Date	28 May 2023	04 Mar 2022	---	---
Machine Hours	12473	9151	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	SEVERE	ABNORMAL	---	---



#### OIL CONDITION

Visc @ 40°C	cSt	129	94.8	---	---
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#### CONTAMINATION

Silicon	ppm	513	144	---	---
Sodium	ppm	24	9	---	---
Potassium	ppm	32	10	---	---



#### WEAR METALS

PQ		262	---	---	---
Iron	ppm	1180	463	---	---
Copper	ppm	35	14	---	---
Lead	ppm	9	3	---	---
Tin	ppm	2	<1	---	---
Aluminum	ppm	230	56	---	---
Chromium	ppm	17	6	---	---
Molybdenum	ppm	1	<1	---	---
Nickel	ppm	6	3	---	---
Titanium	ppm	10	2	---	---
Silver	ppm	1	<1	---	---
Manganese	ppm	43	10	---	---
Vanadium	ppm	1	<1	---	---



#### ADDITIVES

Calcium	ppm	594	139	---	---
Magnesium	ppm	162	35	---	---
Zinc	ppm	53	20	---	---
Phosphorus	ppm	1325	1584	---	---
Barium	ppm	4	0	---	---
Boron	ppm	198	256	---	---

#### 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. PQ levels are abnormal. Chromium and iron ppm levels are abnormal. Aluminum ppm levels are noted. Gear 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. Free water present. 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: EMSREG  
Unique No: 5619965  
Signed: Kevin Marson  
Report Date: 10 Aug 2023



### GRAPHS

