

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50 086895 - Swing Drive

Sample No: LH

Oil Type: LIEBHERR GEAR BASIC 90 LS



LIEBHERR CANADA LTD.
 10374 267 ST.
 ACHESON, AB
 CA T7X 6A2
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Sample Information

Sample Number	LH	---	---	---
Sample Date	22 Mar 2024	---	---	---
Machine Hours	25110	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	ABNORMAL	---	---	---



Oil Condition

Visc @ 40°C	cSt	● 260	---	---	---
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Contamination

Water	%	● 0.266	---	---	---
Silicon	ppm	● 8	---	---	---
Sodium	ppm	● 1	---	---	---
Potassium	ppm	● <1	---	---	---



Wear Metals

PQ		● 61	---	---	---
Iron	ppm	● 2111	---	---	---
Copper	ppm	● 248	---	---	---
Lead	ppm	● 6	---	---	---
Tin	ppm	● 13	---	---	---
Aluminum	ppm	● <1	---	---	---
Chromium	ppm	● 20	---	---	---
Molybdenum	ppm	● 0	---	---	---
Nickel	ppm	● 1	---	---	---
Titanium	ppm	● 0	---	---	---
Silver	ppm	● 0	---	---	---
Manganese	ppm	● 15	---	---	---
Vanadium	ppm	● 0	---	---	---



Additives

Calcium	ppm	● 7	---	---	---
Magnesium	ppm	● <1	---	---	---
Zinc	ppm	● 16	---	---	---
Phosphorus	ppm	● 2219	---	---	---
Barium	ppm	● 0	---	---	---
Boron	ppm	● 9	---	---	---

Diagnosis

We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. Chromium, iron and lead ppm levels are abnormal. Bearing 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. The viscosity of the oil is higher than normal, possibly indicating the addition of a heavier grade of oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: LIESPR
 Unique No: 5761686
 Signed: Kevin Marson
 Report Date: 15 Apr 2024



Graphs

