

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH60M 134372-1217 - Hydraulic System

Sample No: LH0258182

Oil Type: LIEBHERR HYDRAULIC HVI



KINDER MORGAN

PO BOX 100
COFIELD, NC
US 27922

Contact: DENNIS POWELL

T: (252)356-4736

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SAMPLE INFORMATION

Sample Number	LH0258182	---	---	---
Sample Date	27 Oct 2023	---	---	---
Machine Hours	0	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	SEVERE	---	---	---



OIL CONDITION

Visc @ 40°C	cSt	● 42.8	---	---	---
Acid Number (AN)	mg KOH/g	● 0.59	---	---	---



CONTAMINATION

Particles >4µm		● 5406	---	---	---
Particles >6µm		● 1059	---	---	---
Particles >14µm		● 61	---	---	---
ISO 4406:1999 (c)		20/17/13	---	---	---
Silicon	ppm	● 3	---	---	---
Sodium	ppm	● 0	---	---	---
Potassium	ppm	● <1	---	---	---



WEAR METALS

Iron	ppm	● 193	---	---	---
Copper	ppm	● 10	---	---	---
Lead	ppm	● <1	---	---	---
Tin	ppm	● 0	---	---	---
Aluminum	ppm	● 1	---	---	---
Chromium	ppm	● <1	---	---	---
Molybdenum	ppm	● <1	---	---	---
Nickel	ppm	● <1	---	---	---
Titanium	ppm	● 0	---	---	---
Silver	ppm	● 0	---	---	---
Manganese	ppm	● 3	---	---	---
Vanadium	ppm	● 0	---	---	---



ADDITIVES

Calcium	ppm	● 719	---	---	---
Magnesium	ppm	● 4	---	---	---
Zinc	ppm	● 577	---	---	---
Phosphorus	ppm	● 525	---	---	---
Barium	ppm	● 6	---	---	---
Boron	ppm	● 0	---	---	---

Diagnosis

Oil and filter change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. The iron level is severe. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: KINCOF

Unique No: 10742803

Signed: Don Baldrige

Report Date: 18 Nov 2023



GRAPHS

