

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH60M 134372-1217 - Hydraulic System

Sample No: LHMC100196

Oil Type: MOBIL HYDRAULIC OIL AW 46



KINDER MORGAN

PO BOX 100
COFIELD, NC
US 27922

Contact: DENNIS POWELL

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SAMPLE INFORMATION

Sample Number	LHMC100196	LH0258182	---	---
Sample Date	28 Feb 2024	27 Oct 2023	---	---
Machine Hours	8338	0	---	---
Oil Hours	650	0	---	---
Oil Changed	Not Chngd	Changed	---	---
Sample Status	ABNORMAL	SEVERE	---	---



OIL CONDITION

Visc @ 40°C	cSt	● 42.5	● 42.8	---	---
Acid Number (AN)	mg KOH/g	● 0.56	● 0.59	---	---



CONTAMINATION

Water	%	NEG	NEG	---	---
Particles >4µm		● 23792	● 5406	---	---
Particles >6µm		● 10477	● 1059	---	---
Particles >14µm		● 1413	● 61	---	---
ISO 4406:1999 (c)		22/21/18	20/17/13	---	---
Silicon	ppm	● 2	● 3	---	---
Sodium	ppm	● 3	● 0	---	---
Potassium	ppm	● <1	● <1	---	---



WEAR METALS

Iron	ppm	● 90	● 193	---	---
Copper	ppm	● 4	● 10	---	---
Lead	ppm	● <1	● <1	---	---
Tin	ppm	● <1	● 0	---	---
Aluminum	ppm	● <1	● 1	---	---
Chromium	ppm	● <1	● <1	---	---
Molybdenum	ppm	● <1	● <1	---	---
Nickel	ppm	● <1	● <1	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	● 2	● 3	---	---
Vanadium	ppm	<1	0	---	---



ADDITIVES

Calcium	ppm	● 312	● 719	---	---
Magnesium	ppm	● 3	● 4	---	---
Zinc	ppm	● 460	● 577	---	---
Phosphorus	ppm	● 390	● 525	---	---
Barium	ppm	● 0	● 6	---	---
Boron	ppm	● 0	● 0	---	---

Diagnosis

We recommend you service the filters on this component. We recommend an early resample to monitor this condition. The iron level has decreased, but is still abnormal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

Depot: KINCOF

Unique No: 10911605

Signed: Doug Bogart

Report Date: 05 Mar 2024



GRAPHS

