

LIEBHERR

CONSTRUCTION EQUIPMENT



LH80 - Hydraulic System

Sample No: LH0227628

Oil Type: AW HYDRAULIC OIL ISO 46



Sample Information

Sample Number	LH0227628	---	---	---
Sample Date	09 May 2024	---	---	---
Machine Hours	0	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	SEVERE	---	---	---

American Iron and Metal
 75 Steel City Court
 Hamilton, ON
 CA L8H 3Y2
 Contact: Heavy Equipment
 hamiltonmobileassetmaintenance@aim-recycling.com
 T: (905)547-5533
 F: (905)544-5671



Oil Condition

Visc @ 40°C	cSt	● 41.4	---	---	---
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Contamination

Water	%	NEG	---	---	---
Particles >4µm		● 28358	---	---	---
Particles >6µm		● 6387	---	---	---
Particles >14µm		● 181	---	---	---
ISO 4406:1999 (c)		22/20/15	---	---	---
Silicon	ppm	● 2	---	---	---
Sodium	ppm	● 2	---	---	---
Potassium	ppm	● <1	---	---	---



Wear Metals

PQ		● 6	---	---	---
Iron	ppm	● 94	---	---	---
Copper	ppm	● 4	---	---	---
Lead	ppm	● 0	---	---	---
Tin	ppm	● 0	---	---	---
Aluminum	ppm	● <1	---	---	---
Chromium	ppm	● 3	---	---	---
Molybdenum	ppm	● 0	---	---	---
Nickel	ppm	● 0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	● 2	---	---	---
Vanadium	ppm	0	---	---	---



Additives

Calcium	ppm	● 336	---	---	---
Magnesium	ppm	● 8	---	---	---
Zinc	ppm	● 493	---	---	---
Phosphorus	ppm	● 395	---	---	---
Barium	ppm	● 0	---	---	---
Boron	ppm	● 2	---	---	---

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 you service the filters on this component. We recommend an early resample to monitor this condition. Iron ppm levels are severe. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion. There is a light amount of silt (particulates < 14 microns in size) present in the oil. There is a moderate concentration of water present in the oil. Free water present. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: AMEHAM
Unique No: 5775790
Signed: Kevin Marson
Report Date: 13 May 2024



Graphs

