

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 138442 - Energy Recovery Cylinder

Sample No: LH0274620
 Oil Type: NOT GIVEN



CMI - COMBINED METAL INDUSTRIES
 505 GARY RAY DRIVE
 NORTH YORK, ON
 CA M9L 1P9
 Contact: Greg Sacher
 gsacher@combinedmetal.com
 T: (416)642-7262
 F:



SAMPLE INFORMATION

Sample Number	LH0274620	---	---	---
Sample Date	20 Aug 2023	---	---	---
Machine Hours	4196	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	SEVERE	---	---	---



OIL CONDITION

Visc @ 40°C	cSt	116	---	---	---
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CONTAMINATION

Particles >4µm		69085	---	---	---
Particles >6µm		7388	---	---	---
Particles >14µm		178	---	---	---
ISO 4406:1999 (c)		23/20/15	---	---	---
Silicon	ppm	17	---	---	---
Sodium	ppm	3	---	---	---
Potassium	ppm	2	---	---	---



WEAR METALS

Iron	ppm	112	---	---	---
Copper	ppm	<1	---	---	---
Lead	ppm	0	---	---	---
Tin	ppm	0	---	---	---
Aluminum	ppm	8	---	---	---
Chromium	ppm	40	---	---	---
Molybdenum	ppm	<1	---	---	---
Nickel	ppm	<1	---	---	---
Titanium	ppm	3	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	1	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	50	---	---	---
Magnesium	ppm	6	---	---	---
Zinc	ppm	14	---	---	---
Phosphorus	ppm	389	---	---	---
Barium	ppm	<1	---	---	---
Boron	ppm	4	---	---	---

Diagnosis

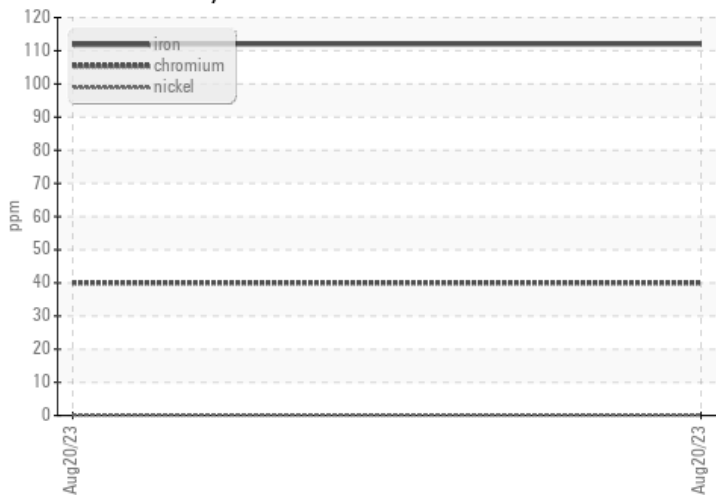
Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend you service the filters on this component. Resample in 30-45 days to monitor this situation. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the fluid. The fluid is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Depot: COMWES
 Unique No: 5630314
 Signed: Kevin Marson
 Report Date: 23 Aug 2023

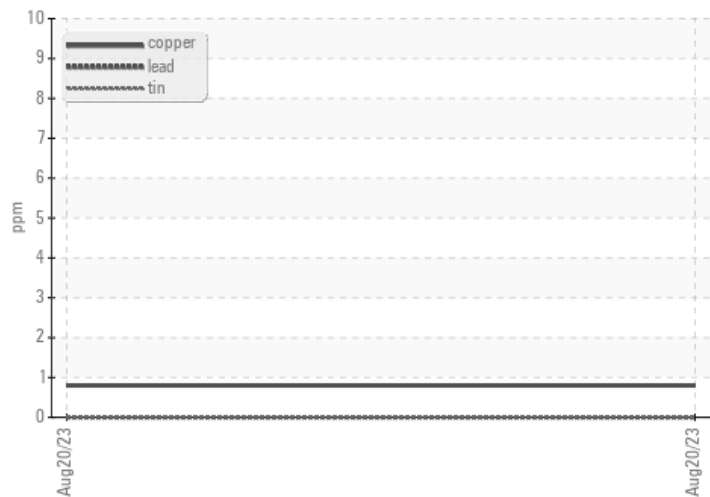


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

