

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50 086895 - Energy Recovery Cylinder

Sample No: LH
Oil Type: NOT GIVEN



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

Sample Number	LH	LH0243006	---	---
Sample Date	22 Mar 2024	14 Jan 2023	---	---
Machine Hours	25110	22640	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	SEVERE	SEVERE	---	---



Oil Condition

Visc @ 40°C	cSt	88.9	89.8	---	---
Visc @ 100°C	cSt	14.6	---	---	---
Viscosity Index (VI)	Scale	171	---	---	---



Contamination

Water	%	NEG	NEG	---	---
Particles >4µm		140556	73781	---	---
Particles >6µm		17067	7233	---	---
Particles >14µm		277	63	---	---
ISO 4406:1999 (c)		24/21/15	23/20/13	---	---
Silicon	ppm	35	74	---	---
Sodium	ppm	5	7	---	---
Potassium	ppm	7	13	---	---



Wear Metals

Iron	ppm	142	132	---	---
Copper	ppm	<1	<1	---	---
Lead	ppm	0	<1	---	---
Tin	ppm	0	0	---	---
Aluminum	ppm	16	31	---	---
Chromium	ppm	9	11	---	---
Molybdenum	ppm	0	2	---	---
Nickel	ppm	<1	<1	---	---
Titanium	ppm	<1	2	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	3	3	---	---
Vanadium	ppm	0	<1	---	---



Additives

Calcium	ppm	22	29	---	---
Magnesium	ppm	9	19	---	---
Zinc	ppm	17	15	---	---
Phosphorus	ppm	302	341	---	---
Barium	ppm	<1	0	---	---
Boron	ppm	4	4	---	---

Diagnosis

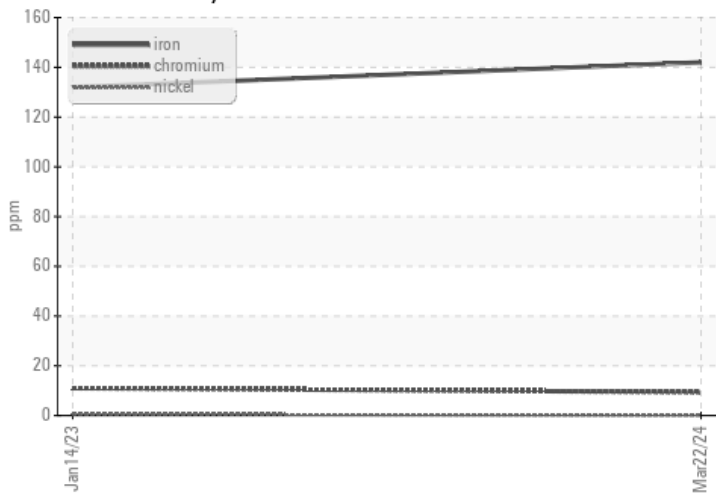
Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend you service the filters on this component. Resample in 30-45 days to monitor this situation. 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: LIESPR
Unique No: 5761574
Signed: Kevin Marson
Report Date: 18 Apr 2024

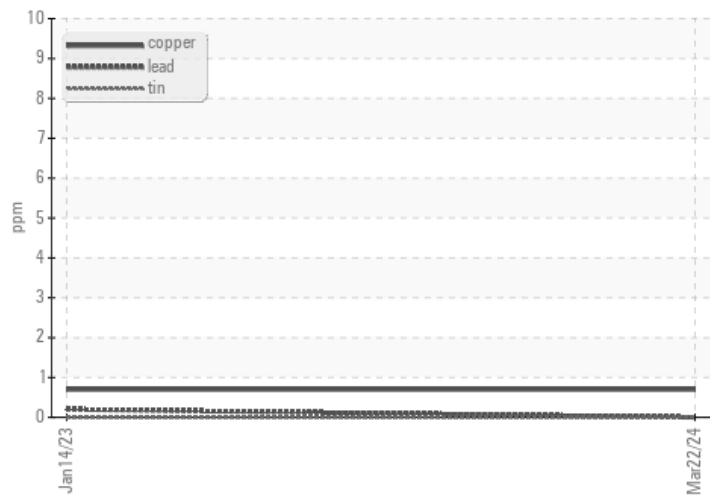


Graphs

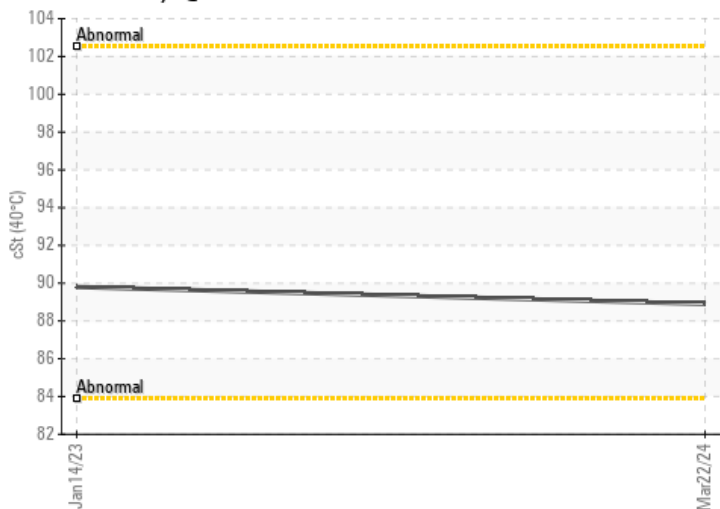
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

